



# **A**Series™ Family

A collection of all A Series™ product flyers



Standard products. Custom solutions  
Customer Service +1 800 394 7732



# A Series™ Pick Your Color

Our A Series™ Family of heavy duty, multi-pin, thermoplastic, rectangular connectors encompass a wide range of products, serving a variety of industries, and **come in a variety of color modifications for your specific needs.**

Colors are often used to help differentiate between keying options, but **we also offer color modifications across a large number of our A Series™ product lines for your specific project needs.**



Available color modifications:

|       |        |        |
|-------|--------|--------|
| Grey  | Blue   | Green  |
| Brown | White  | Red    |
| Black | Yellow | Orange |



A Series™ Family



Standard products. Custom solutions

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# A A Series™ Boots

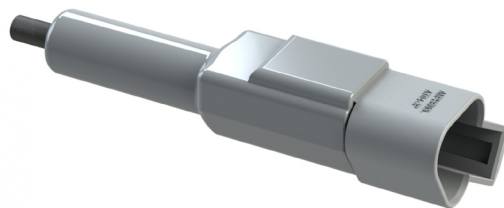
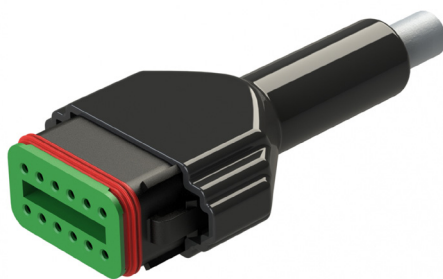
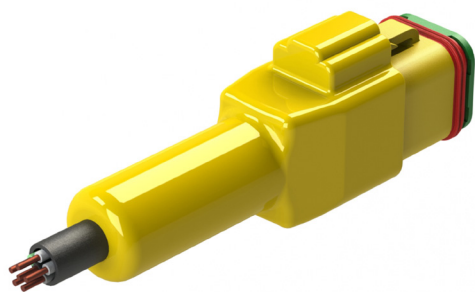
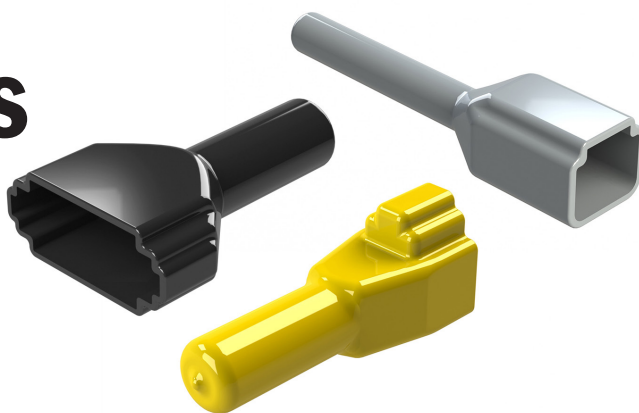
Protective Backshell Boots for  
AT, ATM and ATP Series™ Connectors

Available in 2-12 position (depending on Series)

Amphenol Sine Systems' **A Series™ Boots** provide an optional protective backshell covering for harsh environmental and industrial applications in -28°C to +100°C conditions. For use with AT, ATM and ATP Series™ connectors that do not include an endcap or shrinkboot strain relief.

The boots come in 3 different colors (Yellow, Black and Grey) and are made of high-quality Plastisol.

**Applications:** Heavy Equipment, Agriculture, Construction, Transportation, Off-Road, Mining, Industrial, Railway, Automotive, Diagnostics, Marine, Water Resistance, Harsh Environments

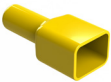
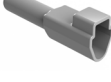
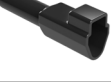
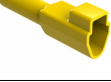
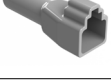
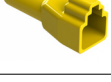


A A Series™ Family

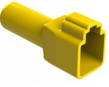
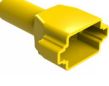


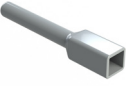
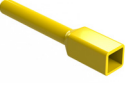
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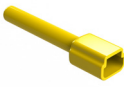
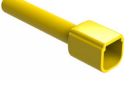
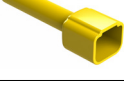
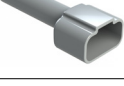
| Image                                                                               | Part Number | Description                                     | Material  | Temperature Range |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------|-----------|-------------------|
|    | AT2P-BT     | 2 Position, Receptacle Boot, AT Series™, Grey   | Plastisol | -28°C to +100°C   |
|    | AT2P-BT-BK  | 2 Position, Receptacle Boot, AT Series™, Black  | Plastisol | -28°C to +100°C   |
|    | AT2P-BT-YW  | 2 Position, Receptacle Boot, AT Series™, Yellow | Plastisol | -28°C to +100°C   |
|    | AT3P-BT     | 3 Position, Receptacle Boot, AT Series™, Grey   | Plastisol | -28°C to +100°C   |
|    | AT3P-BT-BK  | 3 Position, Receptacle Boot, AT Series™, Black  | Plastisol | -28°C to +100°C   |
|    | AT3P-BT-YW  | 3 Position, Receptacle Boot, AT Series™, Yellow | Plastisol | -28°C to +100°C   |
|  | AT4P-BT     | 4 Position, Receptacle Boot, AT Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | AT4P-BT-BK  | 4 Position, Receptacle Boot, AT Series™, Black  | Plastisol | -28°C to +100°C   |
|  | AT4P-BT-YW  | 4 Position, Receptacle Boot, AT Series™, Yellow | Plastisol | -28°C to +100°C   |
|  | AT6P-BT     | 6 Position, Receptacle Boot, AT Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | AT6P-BT-BK  | 6 Position, Receptacle Boot, AT Series™, Black  | Plastisol | -28°C to +100°C   |
|  | AT6P-BT-YW  | 6 Position, Receptacle Boot, AT Series™, Yellow | Plastisol | -28°C to +100°C   |
|  | AT8P-BT     | 8 Position, Receptacle Boot, AT Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | AT8P-BT-BK  | 8 Position, Receptacle Boot, AT Series™, Black  | Plastisol | -28°C to +100°C   |

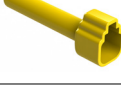
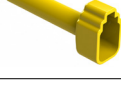
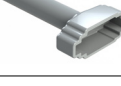
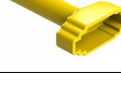
| Image                                                                               | Part Number | Description                                      | Material  | Temperature Range |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------|-----------|-------------------|
|    | AT8P-BT-YW  | 8 Position, Receptacle Boot, AT Series™, Yellow  | Plastisol | -28°C to +100°C   |
|    | AT12P-BT    | 12 Position, Receptacle Boot, AT Series™, Grey   | Plastisol | -28°C to +100°C   |
|    | AT12P-BT-BK | 12 Position, Receptacle Boot, AT Series™, Black  | Plastisol | -28°C to +100°C   |
|    | AT12P-BT-YW | 12 Position, Receptacle Boot, AT Series™, Yellow | Plastisol | -28°C to +100°C   |
|    | AT2S-BT     | 2 Position, Plug Boot, AT Series™, Grey          | Plastisol | -28°C to +100°C   |
|    | AT2S-BT-BK  | 2 Position, Plug Boot, AT Series™, Black         | Plastisol | -28°C to +100°C   |
|  | AT2S-BT-YW  | 2 Position, Plug Boot, AT Series™, Yellow        | Plastisol | -28°C to +100°C   |
|  | AT3S-BT     | 3 Position, Plug Boot, AT Series™, Grey          | Plastisol | -28°C to +100°C   |
|  | AT3S-BT-BK  | 3 Position, Plug Boot, AT Series™, Black         | Plastisol | -28°C to +100°C   |
|  | AT3S-BT-YW  | 3 Position, Plug Boot, AT Series™, Yellow        | Plastisol | -28°C to +100°C   |
|  | AT4S-BT     | 4 Position, Plug Boot, AT Series™, Grey          | Plastisol | -28°C to +100°C   |
|  | AT4S-BT-BK  | 4 Position, Plug Boot, AT Series™, Black         | Plastisol | -28°C to +100°C   |
|  | AT4S-BT-YW  | 4 Position, Plug Boot, AT Series™, Yellow        | Plastisol | -28°C to +100°C   |
|  | AT6S-BT     | 6 Position, Plug Boot, AT Series™, Grey          | Plastisol | -28°C to +100°C   |

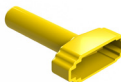


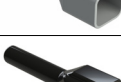
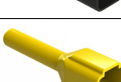
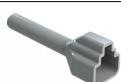
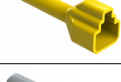
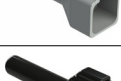
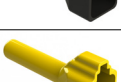
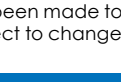
| Image                                                                               | Part Number | Description                                | Material  | Temperature Range |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------|-----------|-------------------|
|    | AT6S-BT-BK  | 6 Position, Plug Boot, AT Series™, Black   | Plastisol | -28°C to +100°C   |
|    | AT6S-BT-YW  | 6 Position, Plug Boot, AT Series™, Yellow  | Plastisol | -28°C to +100°C   |
|    | AT8S-BT     | 8 Position, Plug Boot, AT Series™, Grey    | Plastisol | -28°C to +100°C   |
|    | AT8S-BT-BK  | 8 Position, Plug Boot, AT Series™, Black   | Plastisol | -28°C to +100°C   |
|    | AT8S-BT-YW  | 8 Position, Plug Boot, AT Series™, Yellow  | Plastisol | -28°C to +100°C   |
|    | AT12S-BT    | 12 Position, Plug Boot, AT Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | AT12S-BT-BK | 12 Position, Plug Boot, AT Series™, Black  | Plastisol | -28°C to +100°C   |
|  | AT12S-BT-YW | 12 Position, Plug Boot, AT Series™, Yellow | Plastisol | -28°C to +100°C   |

|                                                                                    |             |                                                  |           |                 |
|------------------------------------------------------------------------------------|-------------|--------------------------------------------------|-----------|-----------------|
|  | ATM2P-BT    | 2 Position, Receptacle Boot, ATM Series™, Grey   | Plastisol | -28°C to +100°C |
|  | ATM2P-BT-BK | 2 Position, Receptacle Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C |
|  | ATM2P-BT-YW | 2 Position, Receptacle Boot, ATM Series™, Yellow | Plastisol | -28°C to +100°C |
|  | ATM3P-BT    | 3 Position, Receptacle Boot, ATM Series™, Grey   | Plastisol | -28°C to +100°C |
|  | ATM3P-BT-BK | 3 Position, Receptacle Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C |

| Image                                                                              | Part Number  | Description                                       | Material  | Temperature Range |
|------------------------------------------------------------------------------------|--------------|---------------------------------------------------|-----------|-------------------|
|    | ATM3P-BT-YW  | 3 Position, Receptacle Boot, ATM Series™, Yellow  | Plastisol | -28°C to +100°C   |
|    | ATM4P-BT     | 4 Position, Receptacle Boot, ATM Series™, Grey    | Plastisol | -28°C to +100°C   |
|    | ATM4P-BT-BK  | 4 Position, Receptacle Boot, ATM Series™, Black   | Plastisol | -28°C to +100°C   |
|    | ATM4P-BT-YW  | 4 Position, Receptacle Boot, ATM Series™, Yellow  | Plastisol | -28°C to +100°C   |
|    | ATM6P-BT     | 6 Position, Receptacle Boot, ATM Series™, Grey    | Plastisol | -28°C to +100°C   |
|    | ATM6P-BT-BK  | 6 Position, Receptacle Boot, ATM Series™, Black   | Plastisol | -28°C to +100°C   |
|  | ATM6P-BT-YW  | 6 Position, Receptacle Boot, ATM Series™, Yellow  | Plastisol | -28°C to +100°C   |
|  | ATM8P-BT     | 8 Position, Receptacle Boot, ATM Series™, Grey    | Plastisol | -28°C to +100°C   |
|  | ATM8P-BT-BK  | 8 Position, Receptacle Boot, ATM Series™, Black   | Plastisol | -28°C to +100°C   |
|  | ATM8P-BT-YW  | 8 Position, Receptacle Boot, ATM Series™, Yellow  | Plastisol | -28°C to +100°C   |
|  | ATM12P-BT    | 12 Position, Receptacle Boot, ATM Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | ATM12P-BT-BK | 12 Position, Receptacle Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C   |
|  | ATM12P-BT-YW | 12 Position, Receptacle Boot, ATM Series™, Yellow | Plastisol | -28°C to +100°C   |
|  | ATM2S-BT     | 2 Position, Plug Boot, ATM Series™, Grey          | Plastisol | -28°C to +100°C   |

| Image                                                                              | Part Number | Description                                | Material  | Temperature Range |
|------------------------------------------------------------------------------------|-------------|--------------------------------------------|-----------|-------------------|
|    | ATM2S-BT-BK | 2 Position, Plug Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C   |
|    | ATM2S-BT-YW | 2 Position, Plug Boot, ATM Series™, Yellow | Plastisol | -28°C to +100°C   |
|    | ATM3S-BT    | 3 Position, Plug Boot, ATM Series™, Grey   | Plastisol | -28°C to +100°C   |
|    | ATM3S-BT-BK | 3 Position, Plug Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C   |
|    | ATM3S-BT-YW | 3 Position, Plug Boot, ATM Series™, Yellow | Plastisol | -28°C to +100°C   |
|    | ATM4S-BT    | 4 Position, Plug Boot, ATM Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | ATM4S-BT-BK | 4 Position, Plug Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C   |
|  | ATM4S-BT-YW | 4 Position, Plug Boot, ATM Series™, Yellow | Plastisol | -28°C to +100°C   |
|  | ATM6S-BT    | 6 Position, Plug Boot, ATM Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | ATM6S-BT-BK | 6 Position, Plug Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C   |
|  | ATM6S-BT-YW | 6 Position, Plug Boot, ATM Series™, Yellow | Plastisol | -28°C to +100°C   |
|  | ATM8S-BT    | 8 Position, Plug Boot, ATM Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | ATM8S-BT-BK | 8 Position, Plug Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C   |
|  | ATM8S-BT-YW | 8 Position, Plug Boot, ATM Series™, Yellow | Plastisol | -28°C to +100°C   |

| Image                                                                            | Part Number  | Description                                 | Material  | Temperature Range |
|----------------------------------------------------------------------------------|--------------|---------------------------------------------|-----------|-------------------|
|  | ATM12S-BT    | 12 Position, Plug Boot, ATM Series™, Grey   | Plastisol | -28°C to +100°C   |
|  | ATM12S-BT-BK | 12 Position, Plug Boot, ATM Series™, Black  | Plastisol | -28°C to +100°C   |
|  | ATM12S-BT-YW | 12 Position, Plug Boot, ATM Series™, Yellow | Plastisol | -28°C to +100°C   |

|                                                                                    |             |                                                  |           |                 |
|------------------------------------------------------------------------------------|-------------|--------------------------------------------------|-----------|-----------------|
|    | ATP2P-BT    | 2 Position, Receptacle Boot, ATP Series™, Grey   | Plastisol | -28°C to +100°C |
|    | ATP2P-BT-BK | 2 Position, Receptacle Boot, ATP Series™, Black  | Plastisol | -28°C to +100°C |
|   | ATP2P-BT-YW | 2 Position, Receptacle Boot, ATP Series™, Yellow | Plastisol | -28°C to +100°C |
|  | ATP4P-BT    | 4 Position, Receptacle Boot, ATP Series™, Grey   | Plastisol | -28°C to +100°C |
|  | ATP4P-BT-BK | 4 Position, Receptacle Boot, ATP Series™, Black  | Plastisol | -28°C to +100°C |
|  | ATP4P-BT-YW | 4 Position, Receptacle Boot, ATP Series™, Yellow | Plastisol | -28°C to +100°C |
|  | ATP2S-BT    | 2 Position, Plug Boot, ATP Series™, Grey         | Plastisol | -28°C to +100°C |
|  | ATP2S-BT-BK | 2 Position, Plug Boot, ATP Series™, Black        | Plastisol | -28°C to +100°C |
|  | ATP2S-BT-YW | 2 Position, Plug Boot, ATP Series™, Yellow       | Plastisol | -28°C to +100°C |
|  | ATP4S-BT    | 4 Position, Plug Boot, ATP Series™, Grey         | Plastisol | -28°C to +100°C |
|  | ATP4S-BT-BK | 4 Position, Plug Boot, ATP Series™, Black        | Plastisol | -28°C to +100°C |
|  | ATP4S-BT-YW | 4 Position, Plug Boot, ATP Series™, Yellow       | Plastisol | -28°C to +100°C |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# A Series™ Caps

## Protective Thermoplastic Caps

Available in AT, ATM and ATP Series, 2-18 position (depending on Series)



Amphenol Sine Systems' **A Series™ Caps** are a low-cost, IP68 rated (1M of Water for 24 Hrs) alternative to using standard connectors with sealing plugs and provide an optional protective covering for harsh environmental and industrial applications. Fully-sealed protective plug & receptacle caps are available across a variety of our A Series™ product lines.

**Applications:** Heavy Equipment, Agriculture, Construction, Transportation, Off-Road, Mining, Industrial, Railway, Automotive, Diagnostics, Marine, Water Resistance, Harsh Environments

2, 3, 4, 6, 8 and 12 Position - **AT Series™** Plug Caps

| Image                                                                               | Part Number  | Description                                   | Material      | Temperature     |
|-------------------------------------------------------------------------------------|--------------|-----------------------------------------------|---------------|-----------------|
|  | AT06-2S-CAP  | 2 Position, Plug Cap, AT Series™, Black Body  | Thermoplastic | -55°C to +125°C |
|  | AT06-3S-CAP  | 3 Position, Plug Cap, AT Series™, Black Body  | Thermoplastic | -55°C to +125°C |
|  | AT06-4S-CAP  | 4 Position, Plug Cap, AT Series™, Black Body  | Thermoplastic | -55°C to +125°C |
|  | AT06-6S-CAP  | 6 Position, Plug Cap, AT Series™, Black Body  | Thermoplastic | -55°C to +125°C |
|  | AT06-08S-CAP | 8 Position, Plug Cap, AT Series™, Black Body  | Thermoplastic | -55°C to +125°C |
|  | AT06-12S-CAP | 12 Position, Plug Cap, AT Series™, Black Body | Thermoplastic | -55°C to +125°C |

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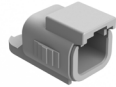
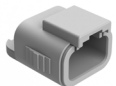
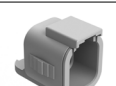
18 Position - **AT Series™** Receptacle Seal Caps

| Image                                                                             | Part Number   | Description                                                                                                | Material      | Temperature     |
|-----------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------|---------------|-----------------|
|  | AT18P-RSC-BLK | 18 Position, Receptacle Seal Cap, AT Series™, Black Body<br>For use with AT04-12P*, AT04-15P* or AT04-18P* | Thermoplastic | -55°C to +125°C |
|  | AT18P-RSC-RED | 18 Position, Receptacle Seal Cap, AT Series™, Red Body<br>For use with AT04-12P*, AT04-15P* or AT04-18P*   | Thermoplastic | -55°C to +125°C |

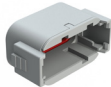
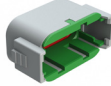
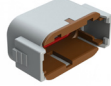
 2, 3, 4, 6, 8 and 12 Position - **ATM Series™** Receptacle Caps

|                                                                                   |              |                                                    |               |                 |
|-----------------------------------------------------------------------------------|--------------|----------------------------------------------------|---------------|-----------------|
|  | ATM04-2P-CAP | 2 Position, Receptacle Cap, ATM Series™, Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATM04-3P-CAP | 3 Position, Receptacle Cap, ATM Series™, Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATM04-4P-CAP | 4 Position, Receptacle Cap, ATM Series™, Grey Body | Thermoplastic | -55°C to +125°C |

 2, 3, 4, 6, 8 and 12 Position - **ATM Series™** Plug Caps

|                                                                                     |                |                                                                              |               |                 |
|-------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------|---------------|-----------------|
|  | ATM06-2S-CAP   | 2 Position, Plug Cap, ATM Series™, Grey Body                                 | Thermoplastic | -55°C to +125°C |
|  | ATM06-3S-CAP   | 3 Position, Plug Cap, ATM Series™, Grey Body                                 | Thermoplastic | -55°C to +125°C |
|  | ATM06-4S-CAP   | 4 Position, Plug Cap, ATM Series™, Grey Body                                 | Thermoplastic | -55°C to +125°C |
|  | ATM06-6S-CAP   | 6 Position, Plug Cap, ATM Series™, Grey Body                                 | Thermoplastic | -55°C to +125°C |
|  | ATM06-08SA-CAP | 8 Position, Plug Cap, ATM Series™, <b>Keyed A (Grey Insert)</b> , Grey Body  | Thermoplastic | -55°C to +125°C |
|  | ATM06-08SB-CAP | 8 Position, Plug Cap, ATM Series™, <b>Keyed B (Black Insert)</b> , Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATM06-08SC-CAP | 8 Position, Plug Cap, ATM Series™, <b>Keyed C (Green Insert)</b> , Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATM06-08SD-CAP | 8 Position, Plug Cap, ATM Series™, <b>Keyed D (Brown Insert)</b> , Grey Body | Thermoplastic | -55°C to +125°C |

2, 3, 4, 6, 8 and 12 Position - **ATM Series™** Plug Caps, cont.

| Image                                                                             | Part Number    | Description                                                                   | Material      | Temperature     |
|-----------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------|---------------|-----------------|
|  | ATM06-12SA-CAP | 12 Position, Plug Cap, ATM Series™, <b>Keyed A (Grey Insert)</b> , Grey Body  | Thermoplastic | -55°C to +125°C |
|  | ATM06-12SB-CAP | 12 Position, Plug Cap, ATM Series™, <b>Keyed B (Black Insert)</b> , Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATM06-12SC-CAP | 12 Position, Plug Cap, ATM Series™, <b>Keyed C (Green Insert)</b> , Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATM06-12SD-CAP | 12 Position, Plug Cap, ATM Series™, <b>Keyed D (Brown Insert)</b> , Grey Body | Thermoplastic | -55°C to +125°C |

2, 4 and 6 Position - **ATP Series™** Receptacle Caps

|                                                                                     |              |                                                    |               |                 |
|-------------------------------------------------------------------------------------|--------------|----------------------------------------------------|---------------|-----------------|
|    | ATP04-2P-CAP | 2 Position, Receptacle Cap, ATP Series™, Grey Body | Thermoplastic | -55°C to +125°C |
|   | ATP04-4P-CAP | 4 Position, Receptacle Cap, ATP Series™, Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATP04-6P-CAP | 6 Position, Receptacle Cap, ATP Series™, Grey Body | Thermoplastic | -55°C to +125°C |

2, 4 and 6 Position - **ATP Series™** Plug Caps

|                                                                                     |              |                                              |               |                 |
|-------------------------------------------------------------------------------------|--------------|----------------------------------------------|---------------|-----------------|
|  | ATP06-2S-CAP | 2 Position, Plug Cap, ATP Series™, Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATP06-4S-CAP | 4 Position, Plug Cap, ATP Series™, Grey Body | Thermoplastic | -55°C to +125°C |
|  | ATP06-6S-CAP | 6 Position, Plug Cap, ATP Series™, Grey Body | Thermoplastic | -55°C to +125°C |

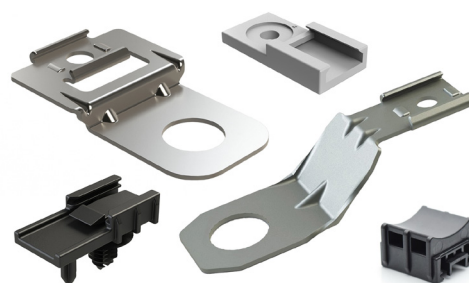
**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# A Series™ Clips

## Metal and Plastic Mounting Clip Options



Amphenol Sine Systems' **A Series™ Clips** provide an optional method for mounting a variety of our receptacles to our plug connectors, and are available in stainless steel, steel with zinc-plating, and plastic. Available in numerous configurations, our mounting clips are compatible with existing industry-standard connectors.

**Applications:** Heavy Equipment, Agriculture, Construction, Transportation, Off-Road, Mining, Industrial, Railway, Automotive, Diagnostics, Marine, Water Resistance, Harsh Environments

| Image | Part Number   | Description                                                                                      | Material            |
|-------|---------------|--------------------------------------------------------------------------------------------------|---------------------|
|       | AT27-001-0800 | Mounting Clip (for AT), 8 Position, 0.433" [11.00 mm] Dia. Hole                                  | Stainless Steel     |
|       | AT27-002-0800 | Mounting Clip (for AT), 8 Position, 0.512" [13.00 mm] Dia. Hole                                  | Steel, Zinc-Plating |
|       | AT27-006-0800 | Mounting Clip (for AT), 8 Position, 0.512" [13.00 mm] Dia. Hole                                  | Stainless Steel     |
|       | AT27-014-0800 | Mounting Clip (for AT), 8 Position, 0.323" [8.20 mm] Dia. Hole                                   | Steel, Zinc-Plating |
|       | AT27-003-1200 | Mounting Clip (for AT, ATM, ATP, ATV, ATHD) 2, 3, 4, 6, 12 Pos, 0.433" [11.00 mm] Dia. Hole      | Stainless Steel     |
|       | AT27-004-1200 | Mounting Clip (for AT, ATM, ATP, ATV, ATHD) 2, 3, 4, 6, 12 Position, 0.512" [13.00 mm] Dia. Hole | Steel, Zinc-Plating |
|       | AT27-005-1200 | Mounting Clip (for AT, ATM, ATP, ATV, ATHD) 2, 3, 4, 6, 12 Position, 0.512" [13.00 mm] Dia. Hole | Stainless Steel     |
|       | AT27-007-1200 | Side Mounting Clip (for AT, ATM, ATP, ATV, ATHD), No Hole                                        | Steel, Zinc-Plating |
|       | AT27-008-1200 | Side Mounting Clip (for AT, ATM, ATP, ATV, ATHD), 0.433" [11mm] Dia. Hole                        | Steel, Zinc-Plating |
|       | AT27-009-1200 | Side Mounting Clip (for AT, ATM, ATP, ATV, ATHD), 0.511" [13mm] Dia. Hole                        | Steel, Zinc-Plating |
|       | AT27-017-1200 | Side Mounting Clip (for AT, ATM, ATP, ATV, ATHD), 0.322" [8.2mm] Dia. Hole                       | Steel, Zinc-Plating |
|       | AT11-026-0205 | Mounting Clip (for AT, ATM, ATP, ATV, ATHD) 2, 3, 4, 6, 12 Position, Grey                        | Polyamide (PA)      |
|       | AT11-027-0805 | Mounting Clip (for AT), 8 Position, Grey                                                         | Polyamide (PA)      |
|       | AT11-030-0205 | Mounting Clip (for AT, ATM, ATP, ATV, ATHD) 2, 3, 4, 6, 12 Position, Black                       | Polyamide (PA)      |
|       | AT11-310-0205 | Mounting Clip (for AT, ATM, ATP, ATV, ATHD) 2, 3, 4, 6, 12 Position, Black, Free Stud Mount      | Polyamide (PA)      |
|       | AT11-VCLIP    | Zip-Tie Cable Attachment Clip, (for AT, ATM, ATP) Black                                          | Thermoplastic       |



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**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# **A Series™ Contacts**



## Machined and Stamped & Formed Precision Connector Contacts

Amphenol Sine Systems is your trusted component source for precision connector contacts designed for increased reliability and reduced cost. Our A Series™ contacts are readily available in a wide variety of materials and plating combinations and can be supplied with a number of different contact types.

**Applications:** Heavy Equipment, Agricultural, Automotive, Military, Alternate Energy, and other demanding interconnect architectures

### Machined Contact Options

- Designed for heavy duty applications, these solid contacts will accommodate greater wire sizes
- Wire Size Range: 4AWG to 24AWG (25 - 0.25mm<sup>2</sup>)
- Available in Size 4, 8, 12, 16 and 20, in both Pin and Socket
- Current Ratings up to 100A
- Copper Alloy, Nickel-Plated
- Gold plating options available



### Stamped & Formed Contact Options

- Precision engineered stamped & formed design provides cost effective wire processing, while ensuring high reliability conductor termination and performance
- Wire Size Range: 10AWG to 22AWG (6.0 - 0.35mm<sup>2</sup>)
- Available in Size 12, 16 and 20, in both Pin and Socket
- Current Ratings up to 25A
- Copper Alloy, Nickel-Plated
- Gold plating options available



## **A Series™ Family**

### Heavy Duty, Multi-Pin Plastic and Metal Connectors

Amphenol Sine Systems' A Series™ Family of sealed heavy-duty, multi-pin plastic and metal connectors include a wide range of products serving many industries. The connectors were developed as a high-performance, cost-effective solution for use with Heavy Equipment, Agricultural, Automotive, Military, Alternate Energy, and other demanding interconnect architectures. The A Series Family bridges the gap between controlled and harsh environmental conditions to keep you connected.

We can custom design, engineer and manufacture cable assemblies to your exact customer specifications and produce large or small quantities, all to the highest standards, delivered on-time and in-specification, all with a significant cost-savings over the competition.

By combining locally based Program Management & Engineering, along with the associated cost advantages derived from manufacturing in our low-cost production centers in North America and Asia, our Team will work with you to design the most cost-efficient and reliable interconnect system available.



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| Part Number       | A Series Product Lines      | Style            | Size | AWG   | Amps | Pin or Socket | Plating |
|-------------------|-----------------------------|------------------|------|-------|------|---------------|---------|
| AT60-204-0490     | DuraMate™, ATHD             | Machined         | 4    | 6     | 100  | Pin           | Nickel  |
| AT62-203-04141    | DuraMate™, ATHD             | Machined         | 4    | 6     | 100  | Socket        | Nickel  |
| AT60-203-04141-4  | DuraMate™                   | Machined         | 4    | 4     | 100  | Pin           | Nickel  |
| AT62-203-04141-4  | DuraMate™                   | Machined         | 4    | 4     | 100  | Socket        | Nickel  |
| AT60-204-08141    | DuraMate™, ATHD             | Machined         | 8    | 8-10  | 60   | Pin           | Nickel  |
| AT62-203-08141    | DuraMate™, ATHD             | Machined         | 8    | 8-10  | 100  | Socket        | Nickel  |
| AT60-204-12141    | ATP/AHD-6/DuraMate™, ATHD   | Machined         | 12   | 12-14 | 25   | Pin           | Nickel  |
| AT60-220-1231     | ATP/AHD-6/DuraMate™, ATHD   | Machined         | 12   | 12-14 | 25   | Pin           | Gold    |
| AT62-203-12141    | ATP, AHD-6, DuraMate™, ATHD | Machined         | 12   | 12-14 | 25   | Socket        | Nickel  |
| AT62-210-1231     | ATP,AHD-6, DuraMate™, ATHD  | Machined         | 12   | 12-14 | 25   | Socket        | Gold    |
| AT60-204-12141-10 | ATP                         | Machined         | 12   | 10-12 | 25   | Pin           | Nickel  |
| AT62-203-12141-10 | ATP                         | Machined         | 12   | 10-12 | 25   | Socket        | Nickel  |
| AT60-202-16141    | AT/AHD-9/DuraMate™          | Machined         | 16   | 16-20 | 13   | Pin           | Nickel  |
| AT60-202-1631     | AT/AHD-9/DuraMate™          | Machined         | 16   | 16-20 | 13   | Pin           | Gold    |
| AT60-215-16141    | AT/AHD-9/DuraMate™          | Machined         | 16   | 14    | 13   | Pin           | Nickel  |
| AT60-215-1631     | AT/AHD-9/DuraMate™          | Machined         | 16   | 14    | 13   | Pin           | Gold    |
| AT62-201-16141    | AT, AHD-9, DuraMate™        | Machined         | 16   | 16-20 | 13   | Socket        | Nickel  |
| AT62-201-1631     | AT, AHD-9, DuraMate™        | Machined         | 16   | 16-20 | 13   | Socket        | Gold    |
| AT62-209-16141    | AT/AHD-9/DuraMate™          | Machined         | 16   | 14    | 13   | Socket        | Nickel  |
| AT62-209-1631     | AT/AHD-9/DuraMate™          | Machined         | 16   | 14    | 13   | Socket        | Gold    |
| AT60-202-16141-22 | AT/AHD-9/DuraMate™          | Machined         | 16   | 22-24 | 13   | Pin           | Nickel  |
| AT60-202-1631-22  | AT/AHD-9/DuraMate™          | Machined         | 16   | 22-24 | 13   | Pin           | Gold    |
| AT62-201-16141-22 | AT, AHD-9, DuraMate™        | Machined         | 16   | 22-24 | 13   | Socket        | Nickel  |
| AT62-201-1631-22  | AT/AHD-9/DuraMate™          | Machined         | 16   | 22-24 | 13   | Socket        | Gold    |
| AT60-202-20141    | ATM/ DuraMate™              | Machined         | 20   | 20    | 7.5  | Pin           | Nickel  |
| AT60-202-2031     | ATM/ DuraMate™              | Machined         | 20   | 20    | 7.5  | Pin           | Gold    |
| AT62-201-20141    | ATM/ DuraMate™              | Machined         | 20   | 20    | 7.5  | Socket        | Nickel  |
| AT62-201-2031     | ATM/ DuraMate™              | Machined         | 20   | 20    | 7.5  | Socket        | Gold    |
| AT60-010-20141    | ATM/ DuraMate™              | Machined         | 20   | 16-18 | 7.5  | Pin           | Nickel  |
| AT60-010-2031     | ATM/ DuraMate™              | Machined         | 20   | 16-18 | 7.5  | Pin           | Gold    |
| AT62-005-20141    | ATM/ DuraMate™              | Machined         | 20   | 16-18 | 7.5  | Socket        | Nickel  |
| AT62-005-2031     | ATM/ DuraMate™              | Machined         | 20   | 16-18 | 7.5  | Socket        | Gold    |
| AT60-12-0144      | ATP/AHD-6/DuraMate™         | Stamped & Formed | 12   | 12-14 | 25   | Pin           | Gold    |
| AT60-12-0166      | ATP/AHD-6/DuraMate™         | Stamped & Formed | 12   | 12-14 | 25   | Pin           | Nickel  |
| AT60-12-0222      | ATP/DuraMate™               | Stamped & Formed | 12   | 10-12 | 25   | Pin           | Nickel  |
| AT60-12-0244      | AT/DuraMate™                | Stamped & Formed | 12   | 10-12 | 25   | Pin           | Gold    |
| AT62-12-0144      | ATP, AHD-6, DuraMate™       | Stamped & Formed | 12   | 12-14 | 13   | Socket        | Gold    |
| AT62-12-0166      | ATP, AHD-6,DuraMate™        | Stamped & Formed | 12   | 12-14 | 13   | Socket        | Nickel  |
| AT62-12-0222      | ATP/ DuraMate™              | Stamped & Formed | 12   | 10-12 | 25   | Socket        | Nickel  |
| AT62-12-0244      | AT, DuraMate™               | Stamped & Formed | 12   | 10-12 | 25   | Socket        | Gold    |
| AT60-14-0122      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 14-16 | 13   | Pin           | Nickel  |
| AT60-14-0144      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 14-16 | 13   | Pin           | Gold    |
| AT60-16-0122      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 16-18 | 13   | Pin           | Nickel  |
| AT60-16-0144      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 16-18 | 13   | Pin           | Gold    |
| AT60-16-0622      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 18-20 | 13   | Pin           | Nickel  |
| AT60-16-0644      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 18-20 | 13   | Pin           | Gold    |
| AT60-16-0822      | AT/AHD-9, DuraMate™         | Stamped & Formed | 16   | 20-22 | 13   | Pin           | Nickel  |
| AT60-16-0844      | AT/AHD-9, DuraMate™         | Stamped & Formed | 16   | 20-22 | 13   | Pin           | Gold    |
| AT62-14-0122      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 14-16 | 13   | Socket        | Nickel  |
| AT62-14-0144      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 14-16 | 13   | Socket        | Gold    |
| AT62-16-0122      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 16-18 | 13   | Socket        | Nickel  |
| AT62-16-0144      | AT/AHD-9/DuraMate™          | Stamped & Formed | 16   | 16-18 | 13   | Socket        | Gold    |
| AT62-16-0622      | AT, AHD-9, DuraMate™        | Stamped & Formed | 16   | 18-20 | 13   | Socket        | Nickel  |
| AT62-16-0644      | AT, AHD-9, DuraMate™        | Stamped & Formed | 16   | 18-20 | 13   | Socket        | Gold    |
| AT62-16-0822      | AT, AHD-9                   | Stamped & Formed | 16   | 20-22 | 13   | Socket        | Nickel  |
| AT62-16-0844      | AT, AHD-9                   | Stamped & Formed | 16   | 20-22 | 13   | Socket        | Gold    |
| AT60-20-0122      | ATM/ DuraMate™              | Stamped & Formed | 20   | 16-22 | 7.5  | Pin           | Nickel  |
| AT60-20-0144      | ATM/ DuraMate™              | Stamped & Formed | 20   | 16-22 | 7.5  | Pin           | Gold    |
| AT60-20-0222      | ATM/DuraMate™               | Stamped & Formed | 20   | 16-22 | 7.5  | Pin           | Nickel  |
| AT60-20-0244      | ATM/ DuraMate™              | Stamped & Formed | 20   | 16-22 | 7.5  | Pin           | Gold    |
| AT60-20-0277      | ATM/DuraMate™               | Stamped & Formed | 20   | 16-22 | 7.5  | Pin           | Tin     |
| AT62-20-0122      | ATM/ DuraMate™              | Stamped & Formed | 20   | 16-22 | 7.5  | Socket        | Nickel  |
| AT62-20-0144      | ATM/ DuraMate™              | Stamped & Formed | 20   | 16-22 | 7.5  | Socket        | Gold    |
| AT62-20-0222      | ATM/ DuraMate™              | Stamped & Formed | 20   | 16-22 | 7.5  | Socket        | Nickel  |
| AT62-20-0244      | ATM/ DuraMate™              | Stamped & Formed | 20   | 16-22 | 7.5  | Socket        | Gold    |
| AT62-20-0277      | ATM/ DuraMate™              | Stamped & Formed | 20   | 16-22 | 7.5  | Socket        | Tin     |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)



# AHD AHD Series™

## Product Enhancement Arrow Alignment System

Amphenol Sine Systems' AHD Series™ connectors have been enhanced to include the new **Arrow Alignment System** to provide 100% visual verification that the connectors are fully and properly mated. Users will now have two types of feedback to ensure the connector is mated properly; the current audible and tactile "click" of the coupling ring locking in place and now visual alignment of the arrows.

**Applications:** Heavy Duty, Transportation, Diagnostic, Military, Fire & Rescue, Agriculture



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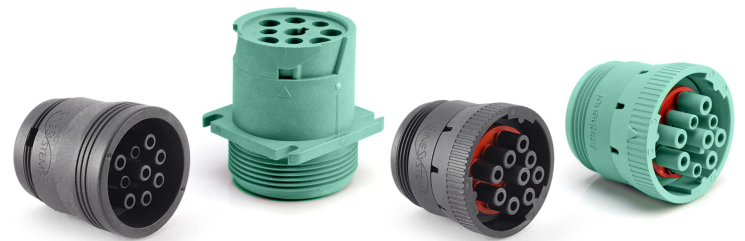




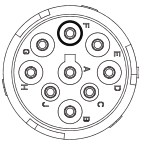
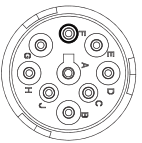
# What Type Are You?

## AHD Series™ J1939 Type 1 & 2 On-Vehicle Data Connectors

J1939 has become the accepted industry standard and the choice for vehicle diagnostic and data communication for commercial heavy-duty, off-highway, truck, bus, marine propulsion, power generation, industrial pumping, construction, and material handling machines. J1939 is a higher-layer protocol based on Controller Area Network (CAN). Adopted widely by the diesel engine industry, it provides diagnostic data such as vehicle engine speed, temperature, oil temperature, exhaust emissions, and other customizable options.



### What Are The Differences Between Type 1 and 2?

|  |     |  |
|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|
| Type 1 (Black)                                                                      | Pin | Type 2 (Green)                                                                      |
| Ground                                                                              | A   | Ground                                                                              |
| Battery                                                                             | B   | Battery                                                                             |
| J1939 + 250kb                                                                       | C   | J1939 + 500kb                                                                       |
| J1939 - 250kb                                                                       | D   | J1939 - 500kb                                                                       |
| J1939 Shield                                                                        | E   | J1939 Shield                                                                        |
| J1708+                                                                              | F   | J1708+ / J1939 + 250kb                                                              |
| J1708-                                                                              | G   | J1708- / J1939 - 250kb                                                              |
| OEM Specific                                                                        | H   | OEM Specific                                                                        |
| OEM Specific                                                                        | J   | OEM Specific                                                                        |



**A Series™ Family**



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## AHD Series J1939 Type 1 & 2

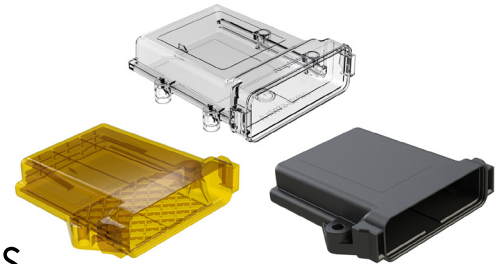
| AHD Receptacles                                                                     | Part Number         | Type | Description                                                                              |
|-------------------------------------------------------------------------------------|---------------------|------|------------------------------------------------------------------------------------------|
|    | AHD10-9-1939P       | 1    | AHD Series, 9 Position, Receptacle, Type 1                                               |
|                                                                                     | AHD10-9-1939PE      | 1    | AHD Series, 9 Position, Receptacle, Reduce Seal, Type 1                                  |
|                                                                                     | AHD17-9-1939PES     | 1    | AHD Series, 9 Position, Receptacle, Jam Mount, Extended Shroud, Reduced Seal, Type 1     |
|                                                                                     | AHD10-9-1939P-B022  | 1    | AHD Series, 9 Position, Receptacle, Jam Mount, Type 1 *Available Q1 2018                 |
|                                                                                     | AHD10-9-1939PR-B022 | 1    | AHD Series, 9 Position, Receptacle, Reduced Seal, Jam Mount, Type 1 *Available Q1 2018   |
|                                                                                     | AHD14-9-1939P       | 1    | AHD Series, 9 Position, Receptacle, In-Line, Type 1                                      |
|                                                                                     | AHD10-9-1939P80     | 2    | AHD Series, 9 Position, Receptacle, Type 2                                               |
|                                                                                     | AHD10-9-1939P8R     | 2    | AHD Series, 9 Position, Receptacle, Reduced Seal, Type 2                                 |
|                                                                                     | AHD17-9-1939PES80   | 2    | AHD Series, 9 Position, Receptacle, Jam Mount, Extended Shroud, Reduced Seal, Type 2     |
|                                                                                     | AHD10-9-1939P-BP80  | 2    | AHD Series, 9 Position, Receptacle, Jam Mount, Type 2 *Available Q1 2018                 |
|                                                                                     | AHD10-9-1939PR-BP80 | 2    | AHD Series, 9 Position, Receptacle, Reduced Seal, Jam Mount, Type 2 *Available Q1 2018   |
| AHD Plugs                                                                           | Part Number         | Type | Description                                                                              |
|   | AHD16-9-1939S       | 1    | AHD Series, 9 Position, Plug, Locking Ring, Type 1                                       |
|                                                                                     | AHD16-9-1939SE      | 1    | AHD Series, 9 Position, Plug, Reduced Seal, Locking Ring, Type 1                         |
|                                                                                     | AHD17-9-1939S       | 1    | AHD Series, 9 Position, Plug, Smooth Shell Diagnostic Grade, Type 1                      |
|                                                                                     | AHD16-9-1939S80     | 2    | AHD Series, 9 Position, Plug, Locking Ring, Type 2                                       |
|                                                                                     | AHD16-9-1939S8R     | 2    | AHD Series, 9 Position, Plug, Reduced Seal, Locking Ring, Type 2                         |
| AHD Caps                                                                            | Part Number         | Type | Description                                                                              |
|   | AHDC-16-9-BLK       | 1    | AHD Series, 9 Position, Receptacle, Cap, Black, Type 1                                   |
|                                                                                     | AHDC-16-9-OBDBK     | 1    | AHD Series, 9 Position, Receptacle, Cap, OBD Black, Type 1                               |
|                                                                                     | AHDC-16-9-OBDBGN    | 2    | AHD Series, 9 Position, Receptacle, Cap, OBD Green, Type 2                               |
| AHD Panel Nuts                                                                      | Part Number         | Type | Description                                                                              |
|  | AHD17-PN01          | 1    | AHD Series, 9 Position, Panel Nut (used on the AHD17-9-1939PES/80), Black, Type 1        |
|                                                                                     | AHD17-PN01-GRN      | 2    | AHD Series, 9 Position, Panel Nut (used on the AHD17-9-1939PES80) Green, Type 2          |
|                                                                                     | AHDP18-PN01         | 1    | AHD Series, 9 Position, Panel Nut (used on the AHD10-9-1939P/R-BP80/B022), Black, Type 1 |
| AHD Cap & Tether                                                                    | Part Number         | Type | Description                                                                              |
|   | AHDC169-T-OBDBK     | 1    | AHD Series, 9 Position, Receptacle, Cap w/ Rubber Tether, OBD Black, Type 1              |
|                                                                                     | AHDC169-T-OBDBGN    | 2    | AHD Series, 9 Position, Receptacle, Cap w/ Rubber Tether, OBD Green, Type 2              |
|                                                                                     | AHDC169-T-BLK       | 1    | AHD Series, 9 Position, Receptacle, Cap w/ Rubber Tether, Black, Type 1                  |
|                                                                                     | AHDC169-TMOBDBK     | 1    | AHD Series, 9 Position, Receptacle, Cap w/ Metal Tether, OBD Black, Type 1               |
|                                                                                     | AHDC169-TMOBDBGN    | 2    | AHD Series, 9 Position, Receptacle, Cap w/ Metal Tether, OBD Green, Type 2               |
|                                                                                     | AHDC169-TMBLK       | 1    | AHD Series, 9 Position, Receptacle, Cap w/ Metal Tether, Black, Type 1                   |

**Important:** All images shown above are just a sampling of available AHD Series J1939 parts. For complete selection, refer to website.

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)



# ARMORIPX™ Family



## The Clear Choice for Sealed Enclosures

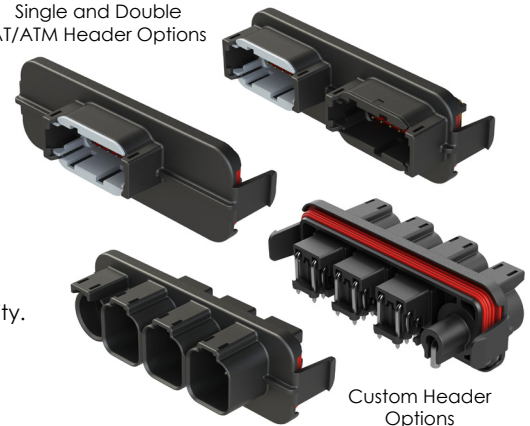
The Amphenol **Armor IPX™ Family of Sealed Enclosures** provides superior protection for printed circuit boards and electronic control modules in harsh environments and off-road applications. Available in two (2) sizes, as well as three (3) different material types: Clear Thermoplastic, Black Thermoplastic or Ultem® (Transparent Amber). Simplified installation is accomplished via a rugged tandem through-hole design for ease of mounting and includes optional environmental venting. The **Armor IPX™** electrical interface is established with the compact **AT/ATM Header Systems** featuring optional keying and sealed 90° molded pins. The snap-in headers quickly and securely attach to the **Armor IPX™** enclosure and mate with standard **AT/ATM Series** plugs. **Armor IPX™ Sealed Enclosures** and **AT/ATM Header Systems** are compatible with industry standard EEC enclosures.

### Key Features

- Available in Standard and Large sizes
- Intermatable with industry standard connectors
- Optional header configurations
  - AT Series™ 12, 24, 36, 48 I/O (A, B, C & D Keying)
  - ATM Series™ 12, 24 I/O (A, B, C & D Keying)
- Rugged tandem through-hole design for ease of mounting
- Snap-in headers establish ease of interface with PCB
- Cross-hatch design increases venting protection
- Resistant to most fluids used in industrial applications



Single and Double  
AT/ATM Header Options



### Available Options

- Custom/Blank Headers available to assist in establishing additional connector interface flexibility.
- Vented enclosures (environmental venting)
- Enclosures available in Clear, Black or Ultem® (Transparent Amber) material
- AT/ATM Headers with optional tin-or gold-plated pins

### Technical Specifications

|                        |                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Range      | Clear Enclosure: -40°C to +120°C<br>Black Enclosure: -55°C to +125°C<br>Ultem® (Transparent Amber) Encl: -55°C to +125°C<br>AT/ATM Headers: -55°C to +125°C |
| Temperature (Humidity) | 320 Hr                                                                                                                                                      |
| Temperature (Life)     | 1000 Hr                                                                                                                                                     |
| UV Exposure            | 500 Hr                                                                                                                                                      |
| Max. Current (AMP)     | 13A (AT Headers); 7.5A (ATM Headers)                                                                                                                        |
| IP Ratings             | IP67/69K (w/ Header Installed)                                                                                                                              |
| Contact Resistance     | <6mΩ (AT Headers); <11mΩ (ATM Headers)                                                                                                                      |
| Insulation Resistance  | >1000MΩ @ 25°C (AT/ATM Headers)                                                                                                                             |
| Current Cycling        | 500 Hour (AT/ATM Headers)                                                                                                                                   |

|                  |                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Material         | Clear Enclosure: Natural Polycarbonate<br>Black Enclosure: PA66<br>Ultem® (Transparent Amber) Enclosure: PEI<br>AT/ATM Headers: PA46 |
| Salt Fog         | 96 Hr                                                                                                                                |
| Vibration        | 10 to 2000Hz – 20g peak level – XYZ – 24 Hr                                                                                          |
| Shock            | 50g - 20 pulses                                                                                                                      |
| Pins             | Copper Alloy w Tin or Gold Plating (AT™ Headers)<br>Brass, Post Tin or Gold Plated (ATM™ Headers)                                    |
| Sealing Material | Silicone Rubber (AT/ATM Headers)                                                                                                     |
| RoHS             | Compliant                                                                                                                            |



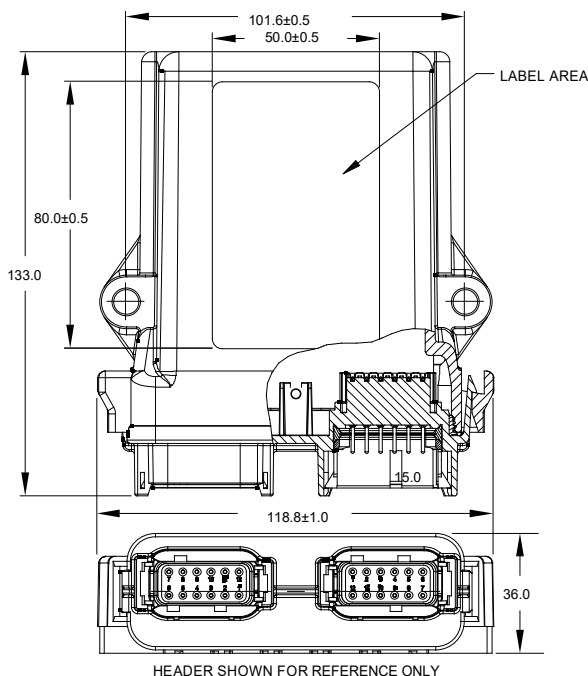
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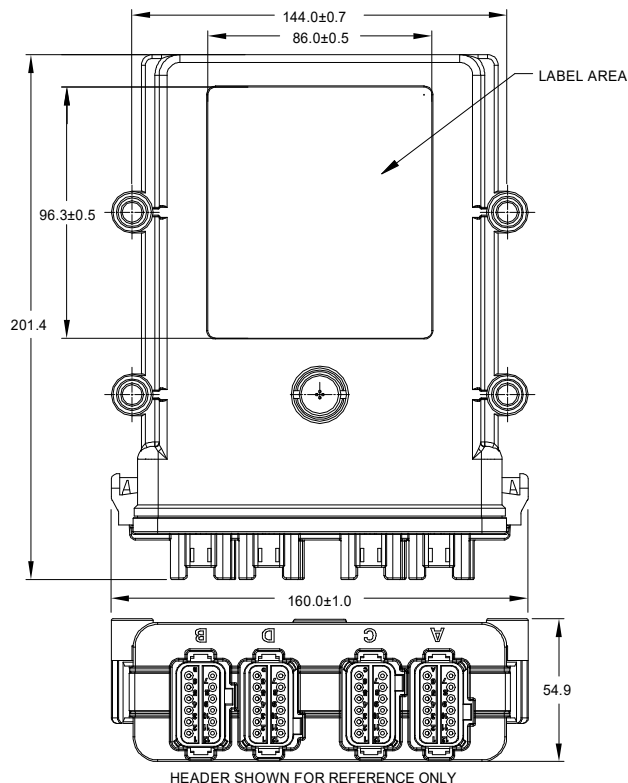
## Armor IPX Series™ Enclosures &amp; Headers

| Image                                                                              | Part Number          | Description                                                                                             | Amp  | Volt |
|------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------|------|------|
|    | AIPXE-325X4A-E017    | Armor IPX™, Standard, Clear, Thermoplastic Enclosure, Vent Hole, Op. Temp. Range: -40°C to +120°C       | -    | -    |
|                                                                                    | AIPXE-325X4B-E017    | Armor IPX™, Standard, Clear, Thermoplastic Enclosure, w/out Vent Hole, Op. Temp. Range: -40°C to +120°C | -    | -    |
|                                                                                    | AIPXE-5X650A-E017    | Armor IPX™, Large, Clear, Thermoplastic Enclosure, Vent Hole, Op. Temp. Range: -40°C to +120°C          | -    | -    |
|                                                                                    | AIPXE-5X650B-E017    | Armor IPX™, Large, Clear, Thermoplastic Enclosure, w/out Vent Hole, Op. Temp. Range: -40°C to +120°C    | -    | -    |
|                                                                                    | AIPXE-325X4A         | Armor IPX™, Standard, Black, Thermoplastic Enclosure, Vent Hole, Op. Temp. Range: -55°C to +125°C       | -    | -    |
|                                                                                    | AIPXE-325X4B         | Armor IPX™, Standard, Black, Thermoplastic Enclosure, w/out Vent Hole, Op. Temp. Range: -55°C to +125°C | -    | -    |
|                                                                                    | AIPXE-5X650A         | Armor IPX™, Large, Black, Thermoplastic Enclosure, Vent Hole, Op. Temp. Range: -55°C to +125°C          | -    | -    |
|                                                                                    | AIPXE-5X650B         | Armor IPX™, Large, Black, Thermoplastic Enclosure, w/out Vent Hole, Op. Temp. Range: -55°C to +125°C    | -    | -    |
|                                                                                    | AIPXE-325X4A-E016    | Armor IPX™, Standard, Ultem® (Amber), Enclosure, Vent Hole, Op. Temp. Range: -55°C to +125°C            | -    | -    |
|    | AIPXE-325X4B-E016    | Armor IPX™, Standard, Ultem® (Amber), Enclosure, w/out Vent Hole, Op. Temp. Range: -55°C to +125°C      | -    | -    |
|                                                                                    | AT13-12PA-R015       | Armor IPX™, Large, AT Header, Thermoplastic, 1x12 Position, Size 16, A Key - Tin Plating                | 13A  | 250V |
|                                                                                    | AT13-24PAB-BM03      | Armor IPX™, Large, AT Header, Thermoplastic, 2x12 Position, Size 16, AB Key - Tin Plating               | 13A  | 250V |
|                                                                                    | AT13-36PABC-BM03     | Armor IPX™, Large, AT Header, Thermoplastic, 3x12 Position, Size 16, ABC Key - Tin Plating              | 13A  | 250V |
|    | AT13-48PABCD-BM03    | Armor IPX™, Large, AT Header, Thermoplastic, 4x12 Position, Size 16, ABCD Key - Tin Plating             | 13A  | 250V |
|                                                                                    | AT13-12PA-GR02       | Armor IPX™, Large, AT Header, Thermoplastic, 1x12 Position, Size 16, A Key - Gold Plating               | 13A  | 250V |
|                                                                                    | AT13-24PAB-BM01      | Armor IPX™, Large, AT Header, Thermoplastic, 2x12 Position, Size 16, AB Key - Gold Plating              | 13A  | 250V |
|                                                                                    | AT13-36PABC-BM01     | Armor IPX™, Large, AT Header, Thermoplastic, 3x12 Position, Size 16, ABC Key - Gold Plating             | 13A  | 250V |
|  | AT13-48PABCD-BM01    | Armor IPX™, Large, AT Header, Thermoplastic, 4x12 Position, Size 16, ABCD Key - Gold Plating            | 13A  | 250V |
|                                                                                    | ATM13-12PA-GR01      | Armor IPX™, Standard, ATM Header, Thermoplastic, 1x12 Position, Size 20, A Key - Gold Plating           | 7.5A | 250V |
|                                                                                    | ATM13-12PB-GR01      | Armor IPX™, Standard, ATM Header, Thermoplastic, 1x12 Position, Size 20, B Key - Gold Plating           | 7.5A | 250V |
|                                                                                    | ATM13-12PC-GR01      | Armor IPX™, Standard, ATM Header, Thermoplastic, 1x12 Position, Size 20, C Key - Gold Plating           | 7.5A | 250V |
|                                                                                    | ATM13-12PD-GR01      | Armor IPX™, Standard, ATM Header, Thermoplastic, 1x12 Position, Size 20, D Key - Gold Plating           | 7.5A | 250V |
|                                                                                    | ATM13-12PA-R008      | Armor IPX™, Standard, ATM Header, Thermoplastic, 1x12 Position, Size 20, A Key - Tin Plating            | 7.5A | 250V |
|                                                                                    | ATM13-12PB-R008      | Armor IPX™, Standard, ATM Header, Thermoplastic, 1x12 Position, Size 20, B Key - Tin Plating            | 7.5A | 250V |
|                                                                                    | ATM13-12PC-R008      | Armor IPX™, Standard, ATM Header, Thermoplastic, 1x12 Position, Size 20, C Key - Tin Plating            | 7.5A | 250V |
|  | ATM13-12PD-R008      | Armor IPX™, Standard, ATM Header, Thermoplastic, 1x12 Position, Size 20, D Key - Tin Plating            | 7.5A | 250V |
|                                                                                    | ATM13-12PA-12PB-BM01 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, A&B Key - Gold Plating         | 7.5A | 250V |
|                                                                                    | ATM13-12PA-12PC-BM01 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, A&C Key - Gold Plating         | 7.5A | 250V |
|                                                                                    | ATM13-12PA-12PD-BM01 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, A&D Key - Gold Plating         | 7.5A | 250V |
|                                                                                    | ATM13-12PB-12PC-BM01 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, B&C Key - Gold Plating         | 7.5A | 250V |
|                                                                                    | ATM13-12PB-12PD-BM01 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, B&D Key - Gold Plating         | 7.5A | 250V |
|                                                                                    | ATM13-12PC-12PD-BM01 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, C&D Key - Gold Plating         | 7.5A | 250V |
|                                                                                    | ATM13-12PA-12PB-BM03 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, A&B Key - Tin Plating          | 7.5A | 250V |
|                                                                                    | ATM13-12PA-12PC-BM03 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, A&C Key - Tin Plating          | 7.5A | 250V |
|                                                                                    | ATM13-12PA-12PD-BM03 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, A&D Key - Tin Plating          | 7.5A | 250V |
|                                                                                    | ATM13-12PB-12PC-BM03 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, B&C Key - Tin Plating          | 7.5A | 250V |
|                                                                                    | ATM13-12PB-12PD-BM03 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, B&D Key - Tin Plating          | 7.5A | 250V |
|                                                                                    | ATM13-12PC-12PD-BM03 | Armor IPX™, Standard, ATM Header, Thermoplastic, 2x12 Position, Size 20, C&D Key - Tin Plating          | 7.5A | 250V |
|  | AIPXE-325XBP-01      | ArmorIPX™, Standard, Black, Blank Header Plate, Thermoplastic                                           | -    | -    |
|                                                                                    | AIPXE-5X650BP-01     | ArmorIPX™, Large, Black, Blank Header Plate, Thermoplastic                                              | -    | -    |

### Standard ArmorlPX™ Enclosure Dimensions (mm)



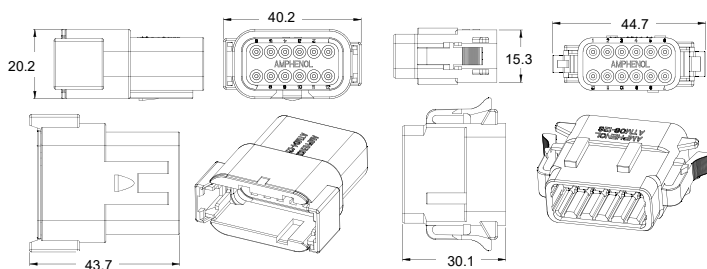
### Large ArmorlPX™ Enclosure Dimensions (mm)



### Standard ATM Series™ Dimensions (mm)

#### Receptacle

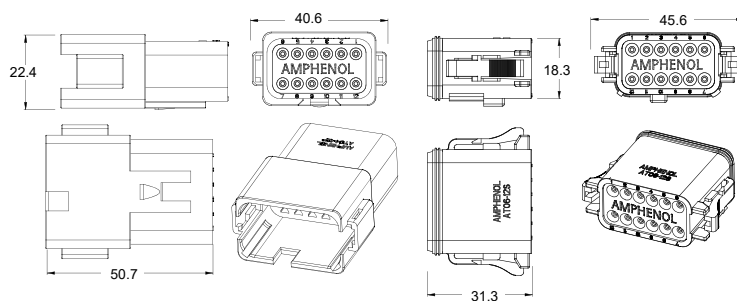
#### Plug



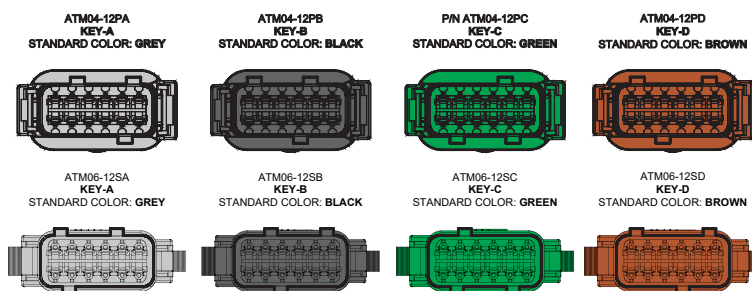
### Standard AT Series™ Dimensions (mm)

#### Receptacle

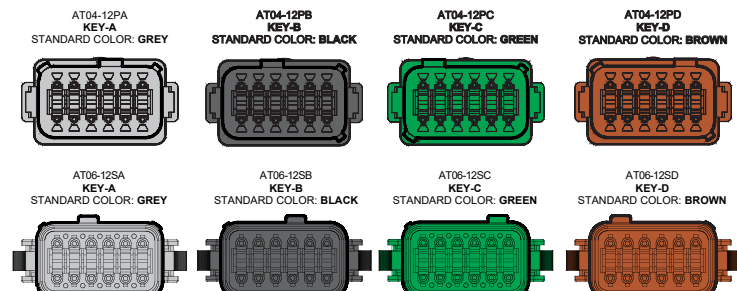
#### Plug



### Standard ATM Series™ Keying Layouts



### Standard AT Series™ Keying Layouts



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)



# ARC ARC Series™

## Harsh Environment Rectangular Connectors

Available in 24, 40 and 70 position

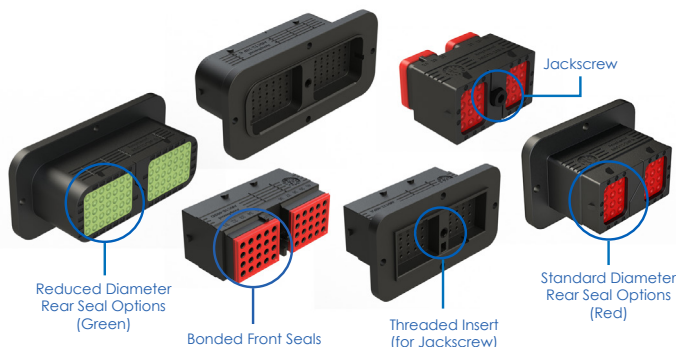
Amphenol Sine Systems **ARC Series™ Connectors** are a rugged, heavy-duty, environmentally-sealed, thermoplastic, rectangular connector series where high pin-counts are required in situations with controlled and/or uncontrolled environmental conditions. Amphenol Sine Systems **ARC Series™ Connectors** are currently available as In-Line Plugs and Flange Mount Receptacles.

All Plugs and Receptacles are IP68/69K rated (in mated condition)

### Key Features

- Accepts contact Size 16 (13A) / 14-20AWG
- Jackscrew w Threaded Insert for Mating
- Bonded Front Seals on Plugs
- Standard or Reduced Diameter Rear Seals
- Available in A, B, C and D Keying Options
- Compatible with existing standard products industry-wide
- Utilizes **A Series™** Contacts

**Applications:** Transportation, Heavy Equipment, Agricultural, Automotive, Off-Highway, Alternate Energy, Marine and other demanding interconnect architectures.



### Technical Specifications

|                           |                                              |
|---------------------------|----------------------------------------------|
| Temperature Range         | -55°C to +125°C                              |
| Max. Current (AMP)        | 13A                                          |
| Voltage Rating (AC/DC)    | 250V                                         |
| Contact Size              | 16                                           |
| Wire AWG Range            | 14-20AWG                                     |
| IP Rating                 | IP68 (1M of Water for 24 Hours), IP69K mated |
| Housing                   | Thermoplastic, Black                         |
| Sealing Material          | Silicone Rubber                              |
| Threaded Insert/Jackscrew | Stainless Steel                              |
| Mating Cycle Durability   | >100                                         |
| Dielectric Value          | Less than 2 mA current leakage @1500V AC     |

|                       |                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Insulation Resistance | 1000 megohms minimum at 25°C                                                                                                                                                                                                                      |
| Vibration             | No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 20 G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 micro-second. |
| Durability            | No electrical or mechanical defects after 100 cycles of engagement and disengagement                                                                                                                                                              |
| Thermal Shock         | Subjected to 20 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                                                                                                         |
| RoHS                  | Compliant                                                                                                                                                                                                                                         |

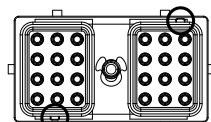


**A Series™ Family**

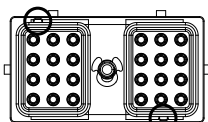


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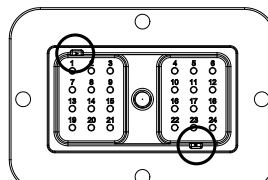
ARC Series™ 24 Position Plug and Receptacle - Keying Options (A, B, C and D)



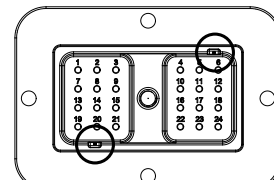
24 Pos Plug - Key A



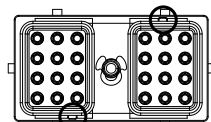
24 Pos Plug - Key B



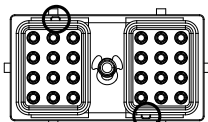
24 Pos Receptacle - Key A



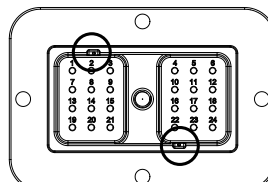
24 Pos Receptacle - Key B



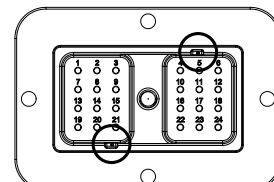
24 Pos Plug - Key C



24 Pos Plug - Key D

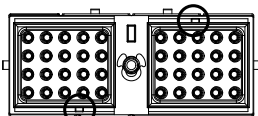


24 Pos Receptacle - Key C

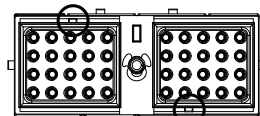


24 Pos Receptacle - Key D

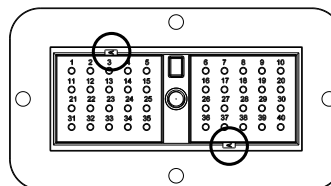
ARC Series™ 40 Position Plug & Receptacle - Keying Options (A, B, C and D)



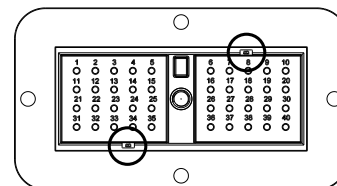
40 Pos Plug - Key A



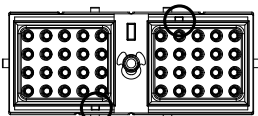
40 Pos Plug - Key B



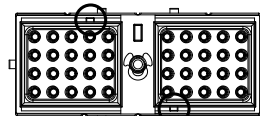
40 Pos Receptacle - Key A



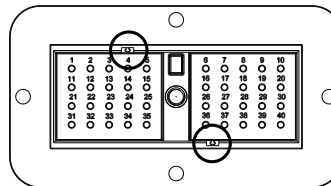
40 Pos Receptacle - Key B



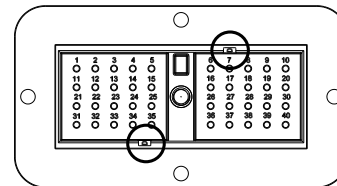
40 Pos Plug - Key C



40 Pos Plug - Key D

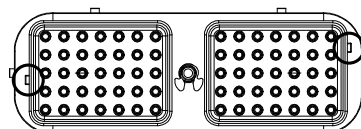


40 Pos Receptacle - Key C

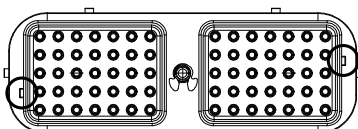


40 Pos Receptacle - Key D

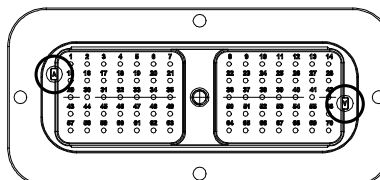
ARC Series™ 70 Position Plug & Receptacle - Keying Options (A, B, C and D)



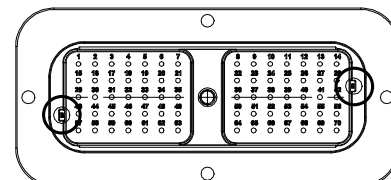
70 Pos Plug - Key A



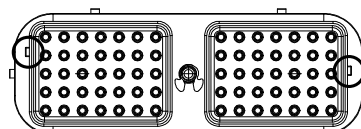
70 Pos Plug - Key B



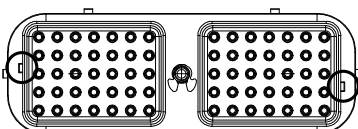
70 Pos Receptacle - Key A



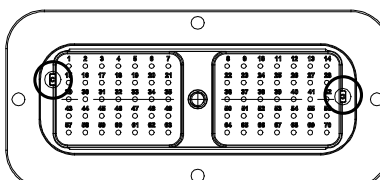
70 Pos Receptacle - Key B



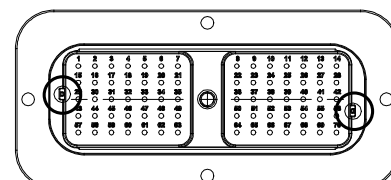
70 Pos Plug - Key C



70 Pos Plug - Key D



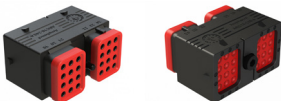
70 Pos Receptacle - Key C



70 Pos Receptacle - Key D



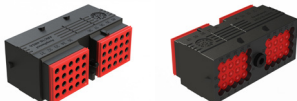
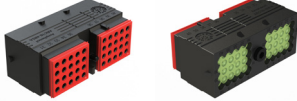
## 24 Position - ARC Series™ Plugs

| Image                                                                            | Part Number      | Description                                                                                                                            | AWG                                   | Amp |
|----------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
|  | ARC16-24SA-P013  | 24 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed A, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                  | ARC16-24SB-P013  | 24 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed B, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                  | ARC16-24SC-P013  | 24 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed C, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                  | ARC16-24SD-P013  | 24 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed D, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|  | ARC16-24SAR-P013 | 24 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed A, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                  | ARC16-24SBR-P013 | 24 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed B, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                  | ARC16-24SCR-P013 | 24 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed C, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                  | ARC16-24SDR-P013 | 24 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed D, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |

## 24 Position - ARC Series™ Receptacles

|                                                                                    |             |                                                                                                                                                     |                                       |     |
|------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
|    | ARC12-24PA  | 24 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jackscrew, Keyed A, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC12-24PB  | 24 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jackscrew, Keyed B, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC12-24PC  | 24 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jackscrew, Keyed C, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC12-24PD  | 24 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jackscrew, Keyed D, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|  | ARC12-24PAR | 24 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jackscrew, Keyed A, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC12-24PBR | 24 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jackscrew, Keyed B, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC12-24PCR | 24 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jackscrew, Keyed C, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC12-24PDR | 24 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jackscrew, Keyed D, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |

## 40 Position - ARC Series™ Plugs

|                                                                                    |                  |                                                                                                                                        |                                       |     |
|------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
|  | ARC18-40SA-P013  | 40 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed A, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC18-40SB-P013  | 40 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed B, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC18-40SC-P013  | 40 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed C, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC18-40SD-P013  | 40 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed D, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|  | ARC18-40SAR-P013 | 40 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed A, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC18-40SBR-P013 | 40 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed B, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC18-40SCR-P013 | 40 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed C, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |
|                                                                                    | ARC18-40SDR-P013 | 40 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed D, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm <sup>2</sup> ) | 13A |

40 Position - ARC Series™ Receptacles

| Image                                                                            | Part Number | Description                                                                                                                                          | AWG                      | Amp |
|----------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|
|  | ARC12-40PA  | 40 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed A, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                  | ARC12-40PB  | 40 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed B, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                  | ARC12-40PC  | 40 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed C, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                  | ARC12-40PD  | 40 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed D, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|  | ARC12-40PAR | 40 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed A, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                  | ARC12-40PBR | 40 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed B, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                  | ARC12-40PCR | 40 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed C, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                  | ARC12-40PDR | 40 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed D, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |

70 Position - ARC Series™ Plugs

|                                                                                    |                  |                                                                                                                                        |                          |     |
|------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|
|    | ARC16-70SA-P013  | 70 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed A, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC16-70SB-P013  | 70 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed B, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC16-70SC-P013  | 70 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed C, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC16-70SD-P013  | 70 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed D, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|  | ARC16-70SAR-P013 | 70 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed A, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC16-70SBR-P013 | 70 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed B, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC16-70SCR-P013 | 70 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed C, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC16-70SDR-P013 | 70 Position, Plug, Socket, Size 16, ARC Series™, Jackscrew, Bonded Front Seal, Keyed D, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |

70 Position - ARC Series™ Receptacles

|                                                                                    |             |                                                                                                                                                      |                          |     |
|------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|
|  | ARC12-70PA  | 70 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed A, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC12-70PB  | 70 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed B, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC12-70PC  | 70 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed C, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC12-70PD  | 70 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed D, Flanged, Standard Diameter Rear Seal (Red), Black Body  | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|  | ARC12-70PAR | 70 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed A, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC12-70PBR | 70 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed B, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC12-70PCR | 70 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed C, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |
|                                                                                    | ARC12-70PDR | 70 Position, Receptacle, Pin, Size 16, ARC Series™, Threaded Insert for Jack-screw, Keyed D, Flanged, Reduced Diameter Rear Seal (Green), Black Body | 14-20AWG<br>(2.0-0.5mm²) | 13A |

ARC Series™ Accessories

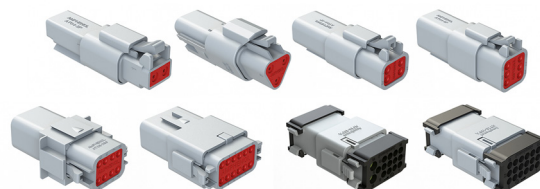
| Image                                                                               | Part Number | Description                                                                        | AWG | Amp |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------|-----|-----|
|    | ARC24-BT    | 24 Position, Boot, Black<br>(For use on both Plug and Receptacle)                  | -   | -   |
|    | ARC24-GKT   | 24 Position Gasket, Receptacle, Black                                              | -   | -   |
|    | ARC40-BT    | 40 Position, Boot, Black<br>(For use on both Plug and Receptacle)                  | -   | -   |
|    | ARC40-BT-RA | 40 Position, 90 Degree Boot, Black<br>(For use on both Plug and Receptacle)        | -   | -   |
|    | ARC40-GKT   | 40 Position Gasket, Receptacle, Black                                              | -   | -   |
|   | ARC70-BT    | 70 Position, Boot, ARC Series, Black Body<br>(For use on both Plug and Receptacle) | -   | -   |
|  | ARC70-GKT   | 70 Position, Gasket, Receptacle, ARC Series, Black Body                            | -   | -   |
|  | A114017     | Sealing Plugs, Size 16, White                                                      | -   | -   |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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**AT Series™**



## Heavy-Duty, Multi-Pin, 13A, Thermoplastic Connectors

Available in 2, 3, 4, 6, 8, 12, 13 (Mixed), 15 (Mixed) and 18 position

Amphenol Sine Systems' **AT Series™** connectors are a high-performance, IP68/69K rated (mated), thermoplastic, cost-effective solution with superior environmental seals and seal retention capabilities. The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. All of our **AT Series™** connectors offer a wide range of end caps and strain relief options and have been developed to be compatible with all other existing standard products industry-wide. Available in **BoardLock™**, **HYPERBUSS™**, **LED**, **PanelMate™** and **StructurePlus™** options.



### Key Features

- Thermoplastic housing with excellent UV resistance
- WedgeLocks ensure proper contact alignment & retention
- Integrated latch for mating ensures a secure connection
- Superior front and rear environmental seals and seal retention
- Compatible with existing standard products industry-wide
- Wide range of end caps and strain relief options

**Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Alternative Energy, Agricultural and other demanding interconnect architectures.

### Specifications Overview (Reference Individual Datasheets)

|                                 |                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature           | -55°C to +125°C                                                                                                                     |
| Max Current Rating (Amp)        | 2, 3, 4, 6, 8, 12 pos: 13A (Size 16)<br>13, 15 pos: Mixed 25A (Size 12), 13A (Size 16)<br>18 pos: 13A (Size 16)                     |
| Mating Cycles                   | >100                                                                                                                                |
| IP Rating                       | IP68/69K (in mated condition)                                                                                                       |
| Wire Range                      | 2, 3, 4, 6, 8, 12 pos: 14-20AWG (Size 16)<br>13, 15 pos: Mixed 10-14AWG (Size 12), 14-20AWG (Size 16)<br>18 pos: 14-20AWG (Size 16) |
| Contacts                        | Machined and Stamped & Formed<br>Copper-Alloy, Nickel-Plated, Gold-Plating optional                                                 |
| Housing/Latch Material          | Thermoplastic/Integrated latch for mating                                                                                           |
| Sealing Material                | Silicone Rubber                                                                                                                     |
| Dielectric Withstanding Voltage | Less than 2 mA current leakage @ 1500V AC                                                                                           |

|                              |                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Insulation Resistance        | 1000 megohms minimum at 25°C                                                                                                                                            |
| Shock                        | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                                   |
| Vibration                    | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)                 |
| Connector Terminal Retention | When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.                                                                                   |
| Connector Retention          | A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds |
| Thermal Shock                | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                               |

### Custom Color Options



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## Related Items-Product Lines

|                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>BL BoardLock™</b></p> <p>BoardLock™ connectors combine flanged or flangeless, 180° straight or 90° right angle pin-oriented, wire-to-board versatility with the proven reliability of the A Series™ environmentally-sealed, thermoplastic, connection system.</p>         |  <p><b>HB HYPERBUSS™</b></p> <p>HYPERBUSS™ connectors are a high-performance, cost-effective solutions used in a variety of interconnect applications where a common "bussed" electrical pathway is required. They contain superior environmental seals and seal retention capabilities.</p> |
|  <p><b>PM PanelMate™</b></p> <p>PanelMate™ connectors combine flange-mounting options with the proven reliability of the AT, ATP and ATHD Series™ environmentally-sealed, thermoplastic connection systems.</p>                                                                  |  <p><b>SP Structure+™</b></p> <p>StructurePlus™ overmold-compatible connectors are engineered, one-piece, solid body connectors that are specifically designed for cable assembly operations requiring custom molding or shrink tube requirements.</p>                                       |
|  <p><b>AT ATSeries™ SR01/02</b></p> <p>AT SR01/02 Series™ specifically designed wire cavities protect each individual wire seal, eliminating stress on the rear seal, maintaining IP68/69K sealing performance regardless of wire bundle direction or improper installation.</p> |  <p><b>AT ATSeries™ LED</b></p> <p>AT Series™ LED (Light Emitting Diode) Plug Connectors, available in a 12V and/or 24V LED plug option, are a highly-visible, field-serviceable, cost-effective solution for quick visual verification of power to help reduce troubleshooting time.</p>    |
|  <p><b>ARMORIPX™</b></p> <p>Armor IPX™ Sealed Enclosures provide superior protection for printed circuit boards and electronic control modules in harsh environments and off-road applications.</p>                                                                            |  <p><b>AT Integrated Resistors&amp;Diodes</b></p> <p>AT Series™ Integrated Resistors &amp; Diodes for ideal for Heavy Duty applications where environmentally-sealed, factory-assembled, plug-and-play connectors are needed.</p>                                                          |

## Related Items-Accessories

|                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>A ASeries™ Boots</b></p> <p>A Series™ Boots provide an optional protective backshell covering for harsh environmental and industrial applications in -28°C to +100°C conditions. For use with AT, ATM and ATP Series™ connectors that do not include an endcap or shrinkboot strain relief.</p> |  <p><b>A ASeries™ Caps</b></p> <p>A Series™ Caps are a low-cost alternative to using standard connectors with sealing plugs and provide an optional protective covering for harsh environmental and industrial applications. All caps are IP68 rated (1M of Water for 24 Hrs).</p>                                                |
|  <p><b>A ASeries™ Clips</b></p> <p>A Series™ Clips provide an optional method for mounting AT, ATM, ATP, and ATHD Series receptacles to our plug connectors, and are available in stainless steel, steel with zinc-plating, and plastic.</p>                                                           |  <p><b>A ASeries™ Colors</b></p> <p>Our A Series™ connectors come in a variety of color modifications for your specific needs. Colors are often used to help differentiate between keying options, but we also offer color modifications across a large number of our A Series™ product lines for your specific project needs.</p> |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# AT ATSeries™ 15 Pos

## Heavy-Duty, Multi-Pin, 13A/25A (Mixed) Thermoplastic Connectors

13 x Size 16 Contacts / 2 x Size 12 Contacts - Mixed Configuration



Amphenol Sine Systems' **AT Series™** connectors are a high-performance, IP68/69K rated (mated), thermoplastic, cost-effective solution with superior environmental seals and seal retention capabilities available in 2, 3, 4, 6, 8, 12, 13 (Mixed), 15 (Mixed) and 18 position. The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. All of our **AT Series™** connectors offer a wide range of end caps and strain relief options and have been developed to be compatible with all other existing standard products industry-wide.

### Keyed Features

- Optional Keying configurations A, B, C, D and E (color-specified)
- Plug and receptacle housings are pre-assembled with internal rear seals and covers
- Superior front and rear environmental seals and seal retention capabilities provide a multi-sealing perimeter against environmental ingress

**Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Alternative Energy, Agricultural and other demanding interconnect architectures.

|                                 |                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature           | -55°C to +125°C                                                                                                                                                         |
| Max Current Rating (Amperage)   | 25A (Size 12), 13A (Size 16)                                                                                                                                            |
| Mating Cycle Durability         | >100                                                                                                                                                                    |
| IP Rating                       | IP68/69K (in mated condition)                                                                                                                                           |
| Wire Range                      | 10-14AWG (Size 12) & 14-20AWG (Size 16) contacts                                                                                                                        |
| Contacts                        | Available in Machined and Stamped & Formed; Copper Alloy, Nickel-Plated, Gold plating optional                                                                          |
| Housing/Latch Material          | Thermoplastic/Integrated latch for mating                                                                                                                               |
| Sealing Material                | Silicone Rubber                                                                                                                                                         |
| Dielectric Withstanding Voltage | Less than 2 milliamps current leakage @ 1500V AC                                                                                                                        |
| Insulation Resistance           | 1000 megohms minimum at 25°C                                                                                                                                            |
| Shock                           | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                                   |
| Vibration                       | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)                 |
| Connector Terminal Retention    | When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.                                                                                   |
| Connector Retention             | A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds |
| Thermal Shock                   | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                               |



A ASeries™ Family



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15 Position - **AT Series™** Plugs

| Image                                                                              | Part Number    | Description                                                                                                                                                                 | Size   | Amp                                  |
|------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------|
|    | AT16-15SA-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed A, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|    | AT16-15SB-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed B, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|    | AT16-15SC-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed C, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|    | AT16-15SD-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed D, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|    | AT16-15SE-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed E, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|    | AT16-15SA-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed A, End Cap, Reduced Diameter Rear Seal (Green), Gray Body (No Add'l Wedgelock Required)  | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|   | AT16-15SC-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed C, End Cap, Reduced Diameter Rear Seal (Green), Green Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15SD-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed D, End Cap, Reduced Diameter Rear Seal (Green), Brown Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15SE-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Plug, Socket, AT Series™, Keyed E, End Cap, Reduced Diameter Rear Seal (Green), Gray Body (No Add'l Wedgelock Required)  | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |

 15 Position - **AT Series™** Receptacles

|                                                                                    |                |                                                                                                                                                                                |        |                                      |
|------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------|
|  | AT16-15PA-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed A, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15PB-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed B, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15PC-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed C, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15PD-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed D, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15PE-K003 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed E, End Cap, Reduced Diameter Rear Seal (Green), Black Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |

15 Position - **AT Series™** Receptacles, cont.

| Image                                                                            | Part Number    | Description                                                                                                                                                                    | Size   | Amp                                  |
|----------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------|
|  | AT16-15PA-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed A, End Cap, Reduced Diameter Rear Seal (Green), Gray Body (No Add'l Wedgelock Required)  | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15PC-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed C, End Cap, Reduced Diameter Rear Seal (Green), Green Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15PD-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed D, End Cap, Reduced Diameter Rear Seal (Green), Brown Body (No Add'l Wedgelock Required) | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |
|  | AT16-15PE-EK02 | 15 Position (2 x Size 12 / 13 x Size 16 Contacts), Receptacle, Pin, AT Series™, Keyed E, End Cap, Reduced Diameter Rear Seal (Green), Gray Body (No Add'l Wedgelock Required)  | 12, 16 | 25A<br>(Size 12)<br>13A<br>(Size 16) |

15 Position - **AT Series™** Accessories

|                                                                                     |                |                                                            |   |   |
|-------------------------------------------------------------------------------------|----------------|------------------------------------------------------------|---|---|
|     | AT16-1518S-CAP | Protective Cover for 12, 15, 18 Position Plugs, Black Body | - | - |
|    | ATBS-PS-1805   | Backshell for 15 & 18 Position, AT Series™, Black Body     | - | - |
|  | AT11-337-1205  | Contact Removal Tool, Plastic, Size 12                     | - | - |
|  | AT11-310-1605  | Contact Removal Tool, Plastic, Size 16                     | - | - |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# AT ATSeries™ 18 Pos

Heavy-Duty, Multi-Pin, 13A,  
Thermoplastic Connectors



## 18 x Size 16 Contacts Configuration

Amphenol Sine Systems' **AT Series™** connectors are a high-performance, IP68/69K rated (mated), thermoplastic, cost-effective solution with superior environmental seals and seal retention capabilities available in 2, 3, 4, 6, 8, 12, 13 (Mixed), 15 (Mixed) and 18 position. The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. All of our **AT Series™** connectors offer a wide range of end caps and strain relief options and have been developed to be compatible with all other existing standard products industry-wide. The 18 Position is available in a **PanelMate™** option.

### Key Features

- Optional keying A, B, C, D and E (color-specified)
- Optional **SR02 Strain Relief** protects each wire cavity to maximize sealing integrity
- Plug and receptacle housings are pre-assembled with internal rear seals and covers
- Superior front and rear environmental seals and seal retention capabilities provide a multi-sealing perimeter against environmental ingress

**Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Alternative Energy, Agricultural and other demanding interconnect architectures.

|                                 |                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature           | -55°C to +125°C                                                                                                                                                         |
| Max Current Rating (Amperage)   | 13A                                                                                                                                                                     |
| Mating Cycle Durability         | >100                                                                                                                                                                    |
| IP Rating                       | IP68/69K (in mated condition)                                                                                                                                           |
| Wire Range                      | Size 16 (14-20AWG) contacts                                                                                                                                             |
| Contacts                        | Available in Machined and Stamped & Formed; Copper Alloy, Nickel-Plated, Gold plating optional                                                                          |
| Housing/Latch Material          | Thermoplastic/Integrated latch for mating                                                                                                                               |
| Sealing Material                | Silicone Rubber                                                                                                                                                         |
| Dielectric Withstanding Voltage | Less than 2 milliamps current leakage @ 1500V AC                                                                                                                        |
| Insulation Resistance           | 1000 megohms minimum at 25°C                                                                                                                                            |
| Shock                           | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                                   |
| Vibration                       | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)                 |
| Connector Terminal Retention    | When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.                                                                                   |
| Connector Retention             | A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds |
| Thermal Shock                   | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                               |



A **ASeries™ Family**



Standard products. Custom solutions  
Customer Service +1 800 394 7732

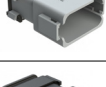
## 18 Position - AT Series™ Plugs

| Image                                                                              | Part Number      | Description                                                                                                                                    | Size | Amp |
|------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT16-18SA-K004   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key A, Black Body (No Add'l Wedgelock Required)            | 16   | 13A |
|    | AT16-18SB-K004   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key B, Black Body (No Add'l Wedgelock Required)            | 16   | 13A |
|    | AT16-18SC-K004   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key C, Black Body (No Add'l Wedgelock Required)            | 16   | 13A |
|    | AT16-18SD-K004   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key D, Black Body (No Add'l Wedgelock Required)            | 16   | 13A |
|    | AT16-18SE-K004   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key E, Black Body (No Add'l Wedgelock Required)            | 16   | 13A |
|    | AT16-18SA-EK02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key A, Gray Body (No Add'l Wedgelock Required)             | 16   | 13A |
|   | AT16-18SC-EK02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key C, Green Body (No Add'l Wedgelock Required)            | 16   | 13A |
|  | AT16-18SD-EK02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key D, Brown Body (No Add'l Wedgelock Required)            | 16   | 13A |
|  | AT16-18SE-EK02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key E, Gray Body (No Add'l Wedgelock Required)             | 16   | 13A |
|  | AT16-18SA-SR02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key A, Black Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18SB-SR02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key B, Black Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18SC-SR02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key C, Black Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18SD-SR02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key D, Black Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18SE-SR02   | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key E, Black Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18SA-EKSR02 | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key A, Grey Body (No Add'l Wedgelock Required)  | 16   | 13A |

18 Position - **AT Series™** Plugs, cont.

| Image                                                                            | Part Number      | Description                                                                                                                                    | Size | Amp |
|----------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT16-18SC-EKSR02 | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key C, Green Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18SD-EKSR02 | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key D, Brown Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18SE-EKSR02 | 18 Position, Plug, Socket, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key E, Grey Body (No Add'l Wedgelock Required)  | 16   | 13A |

 18 Position - **AT Series™** Receptacles

|                                                                                    |                |                                                                                                                                                   |    |     |
|------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | AT16-18PA-K004 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key A, Black Body (No Add'l Wedgelock Required)            | 16 | 13A |
|    | AT16-18PB-K004 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key B, Black Body (No Add'l Wedgelock Required)            | 16 | 13A |
|    | AT16-18PC-K004 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key C, Black Body (No Add'l Wedgelock Required)            | 16 | 13A |
|  | AT16-18PD-K004 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key D, Black Body (No Add'l Wedgelock Required)            | 16 | 13A |
|  | AT16-18PE-K004 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key E, Black Body (No Add'l Wedgelock Required)            | 16 | 13A |
|  | AT16-18PA-EK02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key A, Grey Body (No Add'l Wedgelock Required)             | 16 | 13A |
|  | AT16-18PC-EK02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key C, Green Body (No Add'l Wedgelock Required)            | 16 | 13A |
|  | AT16-18PD-EK02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key D, Brown Body (No Add'l Wedgelock Required)            | 16 | 13A |
|  | AT16-18PE-EK02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), End Cap, Key E, Grey Body (No Add'l Wedgelock Required)             | 16 | 13A |
|  | AT16-18PA-SR02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key A, Black Body (No Add'l Wedgelock Required) | 16 | 13A |
|  | AT16-18PB-SR02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key B, Black Body (No Add'l Wedgelock Required) | 16 | 13A |
|  | AT16-18PC-SR02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key C, Black Body (No Add'l Wedgelock Required) | 16 | 13A |

18 Position - **AT Series™** Receptacles, cont.

| Image                                                                            | Part Number      | Description                                                                                                                                       | Size | Amp |
|----------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT16-18PD-SR02   | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key D, Black Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18PE-SR02   | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key E, Black Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18PA-EKSR02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key A, Grey Body (No Add'l Wedgelock Required)  | 16   | 13A |
|  | AT16-18PC-EKSR02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key C, Green Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18PD-EKSR02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key D, Brown Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18PE-EKSR02 | 18 Position, Receptacle, Pin, AT Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Key E, Grey Body (No Add'l Wedgelock Required)  | 16   | 13A |

 18 Position - **PanelMate™ AT** Receptacles

|                                                                                    |                |                                                                                                                                                                                       |    |     |
|------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT16-18PA-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed A, Grey Body (No Add'l Wedgelock Required)        | 16 | 13A |
|  | AT16-18PB-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed B, Black Body (No Add'l Wedgelock Required)       | 16 | 13A |
|  | AT16-18PC-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed C, Green Body (No Add'l Wedgelock Required)       | 16 | 13A |
|  | AT16-18PD-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed D, Brown Body (No Add'l Wedgelock Required)       | 16 | 13A |
|  | AT16-18PE-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed E, Grey Body (No Add'l Wedgelock Required)        | 16 | 13A |
|  | AT16-18PA-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed A, Grey Body (No Add'l Wedgelock Required)  | 16 | 13A |
|  | AT16-18PB-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed B, Black Body (No Add'l Wedgelock Required) | 16 | 13A |
|  | AT16-18PC-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed C, Green Body (No Add'l Wedgelock Required) | 16 | 13A |
|  | AT16-18PD-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed D, Brown Body (No Add'l Wedgelock Required) | 16 | 13A |



18 Position - **PanelMate™ AT** Receptacles, cont.

| Image                                                                            | Part Number    | Description                                                                                                                                                                          | Size | Amp |
|----------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT16-18PE-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed E, Grey Body (No Add'l Wedgelock Required) | 16   | 13A |

18 Position - **AT Series™** Accessories

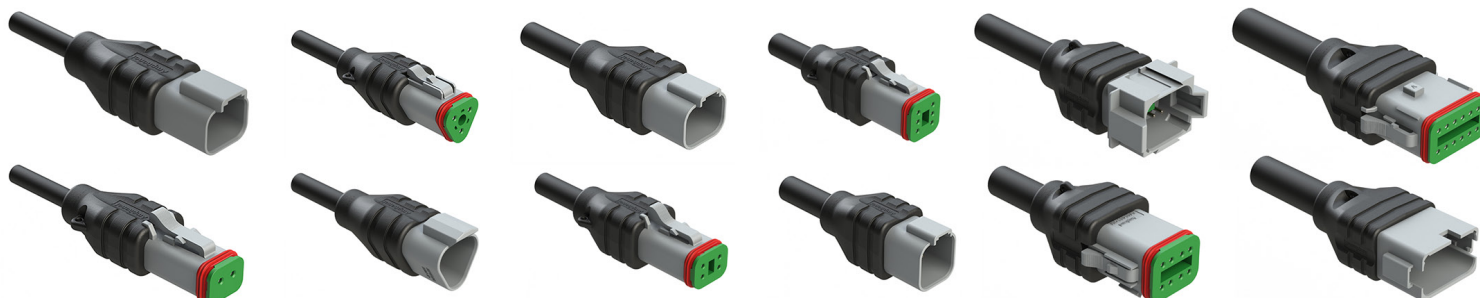
|                                                                                   |                |                                                                       |  |   |
|-----------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------|--|---|
|   | AT16-1518S-CAP | Protective Cover for 12, 15, 18 Position AT Series™ Plugs, Black Body |  | - |
|   | ATBS-PS-1805   | Backshell for 15 & 18 Pos, AT Series™, Black Body                     |  | - |
|  | AT11-310-1605  | Contact Removal Tool, Plastic, Size 16                                |  | - |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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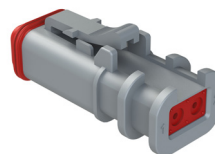


# AT ATSeries™ Cable Assemblies



Amphenol Sine Systems' **AT Series™ Cable Assemblies** are an overmolded strain relief option for our high-performance, thermoplastic, cost-effective **AT Series™ Connectors**.

**Available in 2, 3, 4, 6, 8 and 12 position Plugs and Receptacles with single-ended cordset standard lengths of 1, 2, 4, 5 and 10 Meters.** Contact Customer Service for custom cable length options.



Our Plug assemblies feature our **StructurePlus™ AT** design, **an engineered, one-piece, solid body construction specifically designed for cable assembly operations**. The added connector structure results in enhanced connection integrity that is an essential component for connecting cable in harsh environments.

The process utilizes first-quality resins which encapsulate the wire terminations into the connector housing creating a highly functional & compact strain relief to ensure a long service life. Built to exceptional quality standards, the resulting barrier of protection provides **IP68 rated (1M of water for 24 hrs in mated condition)** sealing capability, preventing liquid ingress for a variety of markets such as Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural.



Standard products. Custom solutions  
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Specifications

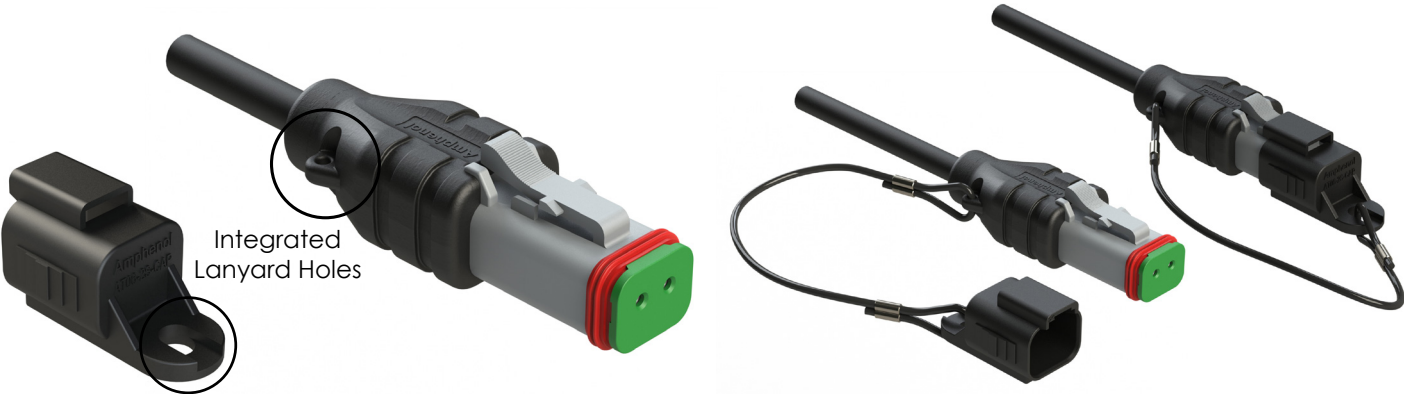
|                                     |                                                           |                |
|-------------------------------------|-----------------------------------------------------------|----------------|
| Temperature Range                   | -40°C to +100°C                                           |                |
| Current Rating<br>@ 25°C Ambient    | 2 Pos: 15A Max                                            | 6 Pos: 10A Max |
|                                     | 3 Pos: 14A Max                                            | 8 Pos: 10A Max |
|                                     | 4 Pos: 12A Max                                            | 12 Pos: 8A Max |
| Voltage                             | 300V AC/DC                                                |                |
| Min. Mating Cycles                  | >100                                                      |                |
| Sealing Protection                  | IP68 (1M of water for 24 hrs in mated condition)          |                |
| Housing/Overmold                    | PA66/Polyamide                                            |                |
| Seals                               | Silicone Rubber                                           |                |
| Keying Options<br>(8 & 12 pos only) | Key A - Grey, Key B - Black, Key C - Green, Key D - Brown |                |

|                  |                                                                              |
|------------------|------------------------------------------------------------------------------|
| Contacts         | Size 16, Nickel-plated                                                       |
| RoHS Compliant   | All connector materials meet the requirements of the EU Directive 2002/95/EC |
| Cable Components | 18AWG, SRPVC Insulated Conductors<br>41/34 Bare Copper                       |
| Cable Type       | TPE, Black                                                                   |
| Cable Approvals  | AWM 21270, CSA AWM I/II A/B FT4                                              |
| Cable Resistance | Sunlight and Oil Resistant                                                   |
| RoHS 3 Compliant | All cable materials meet the requirements of the EU Directive 2015/863       |

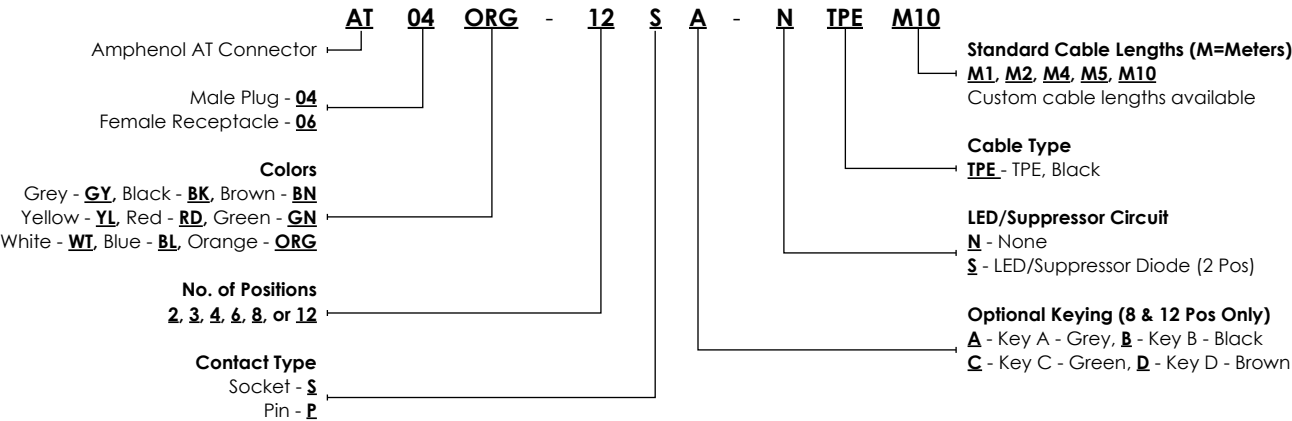
**Note:** All datasheets containing specifications and wiring diagrams can be found at [www.amphenol-sine.com](http://www.amphenol-sine.com) under their specific part numbers.

Key Features

- Enhanced Sealing Protection
- Relieves Stress on Conductors
- Ergonomic Grip Design
- Integrated Lanyard Holes
- Cosmetically Appealing
- Tamper-Proof
- Protective Caps Available for 2, 3, 4, 6, 8 & 12 Position Plugs



AT Series™ Cable Assembly Part Numbering Sequence



## AT Series™ Cable Assemblies

Available in M1, M2, M4, M5 and M10 lengths (M = Meters)

| Image | Part Number          | Description                                                                                                                                                                           | Base Product Line     |
|-------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|       | AT04GY-2P-N-TPE-MX   | 2 Pos, Molded Recep, Black TPE Single-ended Cable Assy, AT Series™, Mates to AT06-2S                                                                                                  | <b>ATSeries™</b>      |
|       | AT06GY-2S-N-TPE-MX   | 2 Pos, Molded Plug, Black TPE Single-ended Cable Assy, StructurePlus™ AT, Mates to AT04-2P                                                                                            | <b>Structure+™ AT</b> |
|       | AT04GY-3P-N-TPE-MX   | 3 Pos, Molded Recep, Black TPE Single-ended Cable Assy, AT Series™, Mates to AT06-3S                                                                                                  | <b>ATSeries™</b>      |
|       | AT06GY-3S-N-TPE-MX   | 3 Pos, Molded Plug, Black TPE Single-ended Cable Assy, StructurePlus™ AT, Mates to AT04-3P                                                                                            | <b>Structure+™ AT</b> |
|       | AT04GY-4P-N-TPE-MX   | 4 Pos, Molded Recep, Black TPE, Single-ended Cable Assy, AT Series™, Mates to AT06-4S                                                                                                 | <b>ATSeries™</b>      |
|       | AT06GY-4S-N-TPE-MX   | 4 Pos, Molded Plug, Black TPE Single-ended Cable Assy, StructurePlus™ AT, Mates to AT04-4P                                                                                            | <b>Structure+™ AT</b> |
|       | AT04GY-6P-N-TPE-MX   | 6 Pos, Molded Recep, Black TPE, Single-ended Cable Assy, AT Series™, Mates to AT06-6S                                                                                                 | <b>ATSeries™</b>      |
|       | AT04GY-6S-N-TPE-MX   | 6 Pos, Molded Plug, Black TPE Single-ended Cable Assy, StructurePlus™ AT, Mates to AT06-6P                                                                                            | <b>Structure+™ AT</b> |
|       | AT04GY-08PX-N-TPE-MX | 8 Pos, Molded Recep, Black TPE Single-ended Cable Assy, AT Series™, Mates to AT06-08SA<br><b>Optional Keying:</b><br>Keyed A-Grey, Keyed B-Black, Keyed C-Green, Keyed D-Brown        | <b>ATSeries™</b>      |
|       | AT04GY-08SX-N-TPE-MX | 8 Pos, Molded Plug, Black TPE Single-ended Cable Assy, StructurePlus™ AT, Mates to AT06-08PA<br><b>Optional Keying:</b><br>Keyed A-Grey, Keyed B-Black, Keyed C-Green, Keyed D-Brown  | <b>Structure+™ AT</b> |
|       | AT04GY-12PX-N-TPE-MX | 12 Pos, Molded Recep, Black TPE Single-ended Cable Assy, AT Series™, Mates to AT06-12SA<br><b>Optional Keying:</b><br>Keyed A-Grey, Keyed B-Black, Keyed C-Green, Keyed D-Brown       | <b>ATSeries™</b>      |
|       | AT04GY-12SX-N-TPE-MX | 12 Pos, Molded Plug, Black TPE Single-ended Cable Assy, StructurePlus™ AT, Mates to AT06-12PA<br><b>Optional Keying:</b><br>Keyed A-Grey, Keyed B-Black, Keyed C-Green, Keyed D-Brown | <b>Structure+™ AT</b> |



Related Items

## **A** **A Series™ Caps**

Protective Thermoplastic Caps for  
AT, ATM and ATP Series™ Connectors

**Available in 2-12 position (depending on Series)**

Amphenol Sine Systems' **A Series™ Caps** are a low-cost alternative to using standard connectors with sealing plugs and provide an optional protective covering for harsh environmental and industrial applications. Fully sealed protective plug & receptacle caps are available for the AT, ATM and ATP Series™.

All caps are IP68 rated (1M of Water for 24 Hrs) when mated.

**Potential Applications:** Heavy Equipment, Agriculture, Construction, Transportation, Off-Road, Mining, Industrial, Railway, Automotive, Diagnostics, Marine, Water Resistance, Harsh Environments



## **SP** **Structure+™ Family**

Overmold Compatible Connectors for  
AT, AT LED, ATHD and ATP Series™ Connectors

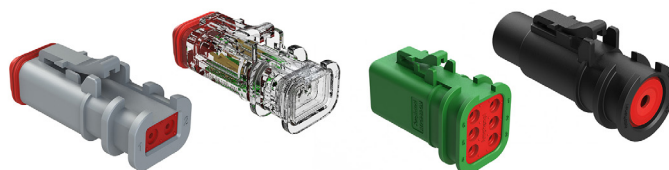
**Available in 1, 2, 3, 4, 6, 8 and 12 position**

Amphenol Sine Systems' **StructurePlus™ Family** of overmold compatible connectors are an **engineered, one-piece, solid body construction and are specifically designed for cable assembly operations requiring custom molding or shrink tube requirements**. The added connector structure results in enhanced connection integrity that is an essential component for connecting cable in harsh environments.

### Key Features

- **StructurePlus™ AT-2, 3, 4, 6, 8, 12 pos, 13A; StructurePlus™ AT LED-2 pos, 13A; StructurePlus™ ATHD-1 pos, 25-60A; StructurePlus™ ATP-6 pos, 25A**
- Engineered one-piece solid body construction, eliminates previously required snap-on-back shell
- Intermatable with industry standard connectors

**Potential Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy, Agricultural as well as other demanding interconnect applications



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

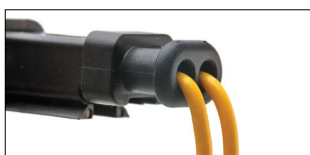


# AT ATSeries™ SR01/02

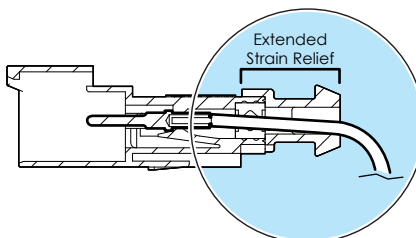
## Extended Strain Relief Series

Available in 2, 3, 4, 6, 8, 12 and 18 position

Amphenol Sine Systems' **AT Series™ SR01 and SR02** connectors are a high-performance, thermoplastic, cost-effective solution with specifically-designed, extended strain relief wire cavities that protect each individual wire seal, eliminating stress on the rear seal while maintaining an IP68/69K rated (mated) performance regardless of wire bundle direction or improper installation. **The AT Series™ SR01 and SR02 meet all the performance criteria and specifications of the AT Series™**, is available in a wide variety of custom colors, and accepts all **A Series™** Size 16 contacts.



**PROTECTS** each wire cavity to maximize sealing integrity.



**MAINTAINS** proper wire routing 100% of the time.

**AT ATSeries™ SR01** Standard Diameter Rear Seals (Red) - 2.24mm (.088") - 3.68mm (.145")

**AT ATSeries™ SR02** Reduced Diameter Rear Seals (Green) - 1.35mm (.053") - 3.05mm (.120")

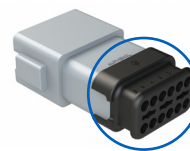
**Applications:** Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy, as well as other demanding interconnect applications

### Key Features

- Heat-shrink capable shroud for applications requiring heat shrink (The use of heat shrink is NOT required to meet existing IP standards)
- Enhanced Sealing Plugs for simplified insertion/removal, improved retention capabilities and include a positive 'stop' for full insertion verification
- Also available in **PanelMate™ AT -PM15** (SR01 Standard Rear Seal) or **-PM16** (SR02 Reduced Diameter Rear Seal)
- Thermoplastic housing with excellent UV resistance
- Wedgelocks ensure proper contact alignment & retention
- Integrated latch for mating ensures a secure connection
- Superior front and rear environmental sealing
- Compatible with existing standard products industry-wide



Standard vs SR01/02  
Extended Strain Relief



Heat-Shrink Capable  
Strain Relief



Enhanced  
Sealing Plugs

**A ASeries™ Family**



Standard products. Custom solutions  
Customer Service +1 800 394 7732



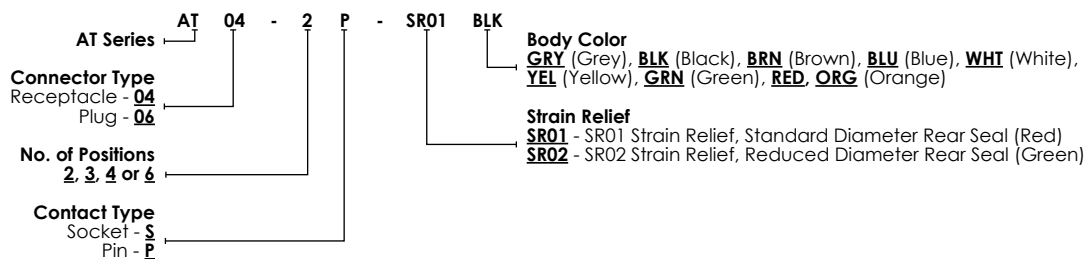
#### Specifications

|                                 |                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Operating Temperature           | -55°C to +125°C                                                                                                       |
| Max Current Rating (Amp)        | 13A                                                                                                                   |
| Mating Cycles                   | >100                                                                                                                  |
| IP Rating                       | IP68/69K (in mated condition)                                                                                         |
| Wire Range                      | Size 16, 14-20AWG                                                                                                     |
| Contacts                        | Machined; Stamped & Formed;<br>Copper Alloy, Nickel-Plated<br>Gold plating optional                                   |
| Housing/Latch Material          | Thermoplastic/Integrated latch for mating                                                                             |
| Sealing Material                | Silicone Rubber                                                                                                       |
| Dielectric Withstanding Voltage | Less than 2 mA current leakage @ 1500V AC                                                                             |
| Insulation Resistance           | 1000 megohms minimum at 25°C                                                                                          |
| Shock                           | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z) |

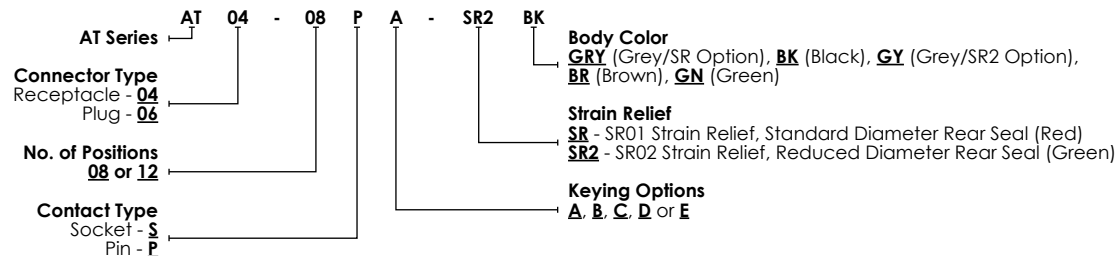
|                              |                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vibration                    | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)                 |
| Connector Terminal Retention | When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.                                                                                   |
| Connector Retention          | A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds |
| Thermal Shock                | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                               |

|      |       |       |      |       |        |       |     |        |
|------|-------|-------|------|-------|--------|-------|-----|--------|
| Grey | Black | Brown | Blue | White | Yellow | Green | Red | Orange |
|------|-------|-------|------|-------|--------|-------|-----|--------|

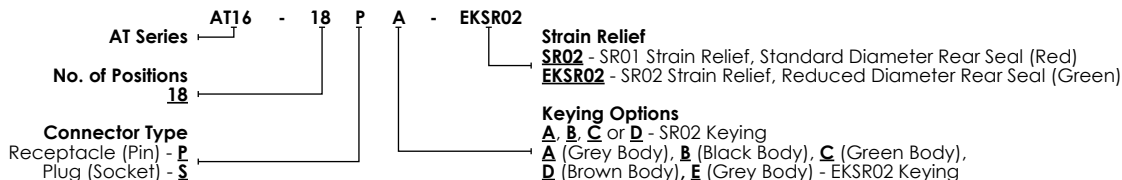
#### Part Numbering Sequence (2, 3, 4 and 6 position)



#### Part Numbering Sequence (08 and 12 position)



#### Part Numbering Sequence (18 position)



## 2 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

| Image                                                                               | Part Number     | Description                                                                                                                                       | Size | Amp |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|     | AT06-2S-SR01GRY | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AW2S. Keyed Options Available.)    | 16   | 13A |
|                                                                                     | AT06-2S-SR02GRY | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-2S-SR01BLK | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-2S-SR02BLK | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-2S-SR01BLU | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AW2S. Keyed Options Available.)    | 16   | 13A |
|                                                                                     | AT06-2S-SR02BLU | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Blue Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-2S-SR01BRN | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-2S-SR02BRN | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Brown Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-2S-SR01WHT | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-2S-SR02WHT | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, White Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-2S-SR01YEL | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-2S-SR02YEL | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Yellow Body (Requires Wedgelock AW2S. Keyed Options Available.) | 16   | 13A |
|                                                                                     | AT06-2S-SR01GRN | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-2S-SR02GRN | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Green Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-2S-SR01RED | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AW2S. Keyed Options Available.)     | 16   | 13A |
|                                                                                     | AT06-2S-SR02RED | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Red Body (Requires Wedgelock AW2S. Keyed Options Available.)    | 16   | 13A |
|                                                                                     | AT06-2S-SR01ORG | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-2S-SR02ORG | 2 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Orange Body (Requires Wedgelock AW2S. Keyed Options Available.) | 16   | 13A |
|  | AW2S            | 2 Position, Plug Wedgelock, Green                                                                                                                 | -    | -   |
|  | AW2S-A          | 2 Position, Plug Wedgelock, Keyed A, Grey                                                                                                         | -    | -   |
|  | AW2S-B          | 2 Position, Plug Wedgelock, Keyed A, Black                                                                                                        | -    | -   |
|  | AW2S-C          | 2 Position, Plug Wedgelock, Keyed A, Green                                                                                                        | -    | -   |
|  | AW2S-D          | 2 Position, Plug Wedgelock, Keyed A, Brown                                                                                                        | -    | -   |



## 3 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                               | Part Number     | Description                                                                                                              | Size | Amp |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------|------|-----|
|     | AT06-3S-SR01GRY | 3 Position, Plug, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Gray Body (Requires Wedgelock AW3S.)            | 16   | 13A |
|                                                                                     | AT06-3S-SR02GRY | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AW3S.)   | 16   | 13A |
|                                                                                     | AT06-3S-SR01BLK | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AW3S.)   | 16   | 13A |
|                                                                                     | AT06-3S-SR02BLK | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AW3S.)  | 16   | 13A |
|                                                                                     | AT06-3S-SR01BLU | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AW3S.)    | 16   | 13A |
|                                                                                     | AT06-3S-SR02BLU | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Blue Body (Requires Wedgelock AW3S.)   | 16   | 13A |
|                                                                                     | AT06-3S-SR01BRN | 3 Position, Plug, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AW3S.)           | 16   | 13A |
|                                                                                     | AT06-3S-SR02BRN | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Brown Body (Requires Wedgelock AW3S.)  | 16   | 13A |
|                                                                                     | AT06-3S-SR01WHT | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AW3S.)   | 16   | 13A |
|                                                                                     | AT06-3S-SR02WHT | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, White Body (Requires Wedgelock AW3S.)  | 16   | 13A |
|                                                                                     | AT06-3S-SR01YEL | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AW3S.)  | 16   | 13A |
|                                                                                     | AT06-3S-SR02YEL | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Yellow Body (Requires Wedgelock AW3S.) | 16   | 13A |
|                                                                                     | AT06-3S-SR01GRN | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AW3S.)   | 16   | 13A |
|                                                                                     | AT06-3S-SR02GRN | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Green Body (Requires Wedgelock AW3S.)  | 16   | 13A |
|                                                                                     | AT06-3S-SR01RED | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AW3S.)     | 16   | 13A |
|                                                                                     | AT06-3S-SR02RED | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Red Body (Requires Wedgelock AW3S.)    | 16   | 13A |
|                                                                                     | AT06-3S-SR01ORG | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AW3S.)  | 16   | 13A |
|                                                                                     | AT06-3S-SR02ORG | 3 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Orange Body (Requires Wedgelock AW3S.) | 16   | 13A |
|  | AW3S            | 3 Position, Plug Wedgelock, Green                                                                                        | -    | -   |
|  | AW3S-1939       | 3 Position, J1939 Plug Wedgelock, Blue                                                                                   | -    | -   |

## 4 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                    |                 |                                                                                                                                                  |    |     |
|------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT06-4S-SR01GRY | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AW4S. Keyed Options Available.)   | 16 | 13A |
|                                                                                    | AT06-4S-SR02GRY | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AW4S. Keyed Options Available.)  | 16 | 13A |
|                                                                                    | AT06-4S-SR01BLK | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AW4S. Keyed Options Available.)  | 16 | 13A |
|                                                                                    | AT06-4S-SR02BLK | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AW4S. Keyed Options Available.) | 16 | 13A |
|                                                                                    | AT06-4S-SR01BLU | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AW4S. Keyed Options Available.)   | 16 | 13A |
|                                                                                    | AT06-4S-SR02BLU | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Blue Body (Requires Wedgelock AW4S. Keyed Options Available.)  | 16 | 13A |

## 4 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                               | Part Number     | Description                                                                                                                                       | Size | Amp |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|     | AT06-4S-SR01BRN | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AW4S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-4S-SR02BRN | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Brown Body (Requires Wedgelock AW4S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-4S-SR01WHT | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AW4S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-4S-SR02WHT | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, White Body (Requires Wedgelock AW4S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-4S-SR01YEL | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AW4S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-4S-SR02YEL | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), vStrain Relief, Yellow Body (Requires Wedgelock AW4S. Keyed Options Available.)     | 16   | 13A |
|                                                                                     | AT06-4S-SR01GRN | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AW4S. Keyed Options Available.)   | 16   | 13A |
|                                                                                     | AT06-4S-SR02GRN | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Green Body (Requires Wedgelock AW4S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-4S-SR01RED | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AW4S. Keyed Options Available.)     | 16   | 13A |
|                                                                                     | AT06-4S-SR02RED | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Red Body (Requires Wedgelock AW4S. Keyed Options Available.)    | 16   | 13A |
|                                                                                     | AT06-4S-SR01ORG | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AW4S. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT06-4S-SR02ORG | 4 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Orange Body (Requires Wedgelock AW4S. Keyed Options Available.) | 16   | 13A |
|   | AW4S            | 4 Position, Plug Wedgelock, Green                                                                                                                 | -    | -   |
|  | AW4S-A          | 4 Position, Plug Wedgelock, Keyed A, Grey                                                                                                         | -    | -   |
|  | AW4S-B          | 4 Position, Plug Wedgelock, Keyed A, Black                                                                                                        | -    | -   |
|  | AW4S-C          | 4 Position, Plug Wedgelock, Keyed A, Green                                                                                                        | -    | -   |
|  | AW4S-D          | 4 Position, Plug Wedgelock, Keyed A, Brown                                                                                                        | -    | -   |

## 6 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                     |                 |                                                                                                                         |    |     |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT06-6S-SR01GRY | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AW6S.)   | 16 | 13A |
|                                                                                     | AT06-6S-SR02GRY | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Gray Body (Requires Wedgelock AW6S.)  | 16 | 13A |
|                                                                                     | AT06-6S-SR01BLK | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AW6S.)  | 16 | 13A |
|                                                                                     | AT06-6S-SR02BLK | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AW6S.) | 16 | 13A |
|                                                                                     | AT06-6S-SR01BLU | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AW6S.)   | 16 | 13A |
|                                                                                     | AT06-6S-SR02BLU | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Blue Body (Requires Wedgelock AW6S.)  | 16 | 13A |
|                                                                                     | AT06-6S-SR01BRN | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AW6S.)  | 16 | 13A |
|                                                                                     | AT06-6S-SR02BRN | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Brown Body (Requires Wedgelock AW6S.) | 16 | 13A |

## 6 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                             | Part Number     | Description                                                                                                              | Size | Amp |
|-----------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT06-6S-SR01WHT | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AW6S.)   | 16   | 13A |
|                                                                                   | AT06-6S-SR02WHT | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, White Body (Requires Wedgelock AW6S.)  | 16   | 13A |
|                                                                                   | AT06-6S-SR01YEL | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AW6S.)  | 16   | 13A |
|                                                                                   | AT06-6S-SR02YEL | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Yellow Body (Requires Wedgelock AW6S.) | 16   | 13A |
|                                                                                   | AT06-6S-SR01GRN | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AW6S.)   | 16   | 13A |
|                                                                                   | AT06-6S-SR02GRN | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Green Body (Requires Wedgelock AW6S.)  | 16   | 13A |
|                                                                                   | AT06-6S-SR01RED | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AW6S.)     | 16   | 13A |
|                                                                                   | AT06-6S-SR02RED | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Red Body (Requires Wedgelock AW6S.)    | 16   | 13A |
|                                                                                   | AT06-6S-SR01ORG | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AW6S.)  | 16   | 13A |
|                                                                                   | AT06-6S-SR02ORG | 6 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Orange Body (Requires Wedgelock AW6S.) | 16   | 13A |
|  | AW6S            | 6 Position, Plug Wedgelock, Green                                                                                        | -    | -   |

## 8 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                     |                 |                                                                                                                                  |    |     |
|-------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|----|-----|
|   | AT06-08SA-SRGRY | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed A, SR01 Strain Relief, Grey Body (Requires Wedgelock AW8S.)   | 16 | 13A |
|                                                                                     | AT06-08SA-SR2GY | 8 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Grey Body (Requires Wedgelock AW8S.)  | 16 | 13A |
|                                                                                     | AT06-08SA-SRBK  | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed A, SR01 Strain Relief, Black Body (Requires Wedgelock AW8S.)  | 16 | 13A |
|                                                                                     | AT06-08SA-SR2BK | 8 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Grey Body (Requires Wedgelock AW8S.)  | 16 | 13A |
|                                                                                     | AT06-08SB-SRBK  | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed B, SR01 Strain Relief, Black Body (Requires Wedgelock AW8S.)  | 16 | 13A |
|                                                                                     | AT06-08SB-SR2BK | 8 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed B, SR02 Strain Relief, Black Body (Requires Wedgelock AW8S.) | 16 | 13A |
|                                                                                     | AT06-08SC-SRGN  | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed C, SR01 Strain Relief, Green Body (Requires Wedgelock AW8S.)  | 16 | 13A |
|                                                                                     | AT06-08SC-SR2GN | 8 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed C, SR02 Strain Relief, Green Body (Requires Wedgelock AW8S.) | 16 | 13A |
|                                                                                     | AT06-08SD-SRBR  | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed D, SR01 Strain Relief, Brown Body (Requires Wedgelock AW8S.)  | 16 | 13A |
|                                                                                     | AT06-08SD-SR2BR | 8 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed D, SR02 Strain Relief, Brown Body (Requires Wedgelock AW8S.) | 16 | 13A |
|  | AW8S            | 8 Position, Plug Wedgelock, Green                                                                                                | -  | -   |

## 12 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                    |                 |                                                                                                                                  |    |     |
|------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT06-12SA-SRGRY | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed A, SR01 Strain Relief, Grey Body (Requires Wedgelock AW12S.) | 16 | 13A |
|------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|----|-----|

## 12 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                             | Part Number     | Description                                                                                                                        | Size | Amp |
|-----------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|   | AT06-12SA-SR2GY | 12 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Grey Body (Requires Wedgelock AW12S.)  | 16   | 13A |
|                                                                                   | AT06-12SA-SRBK  | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed A, SR01 Strain Relief, Black Body (Requires Wedgelock AW12S.)  | 16   | 13A |
|                                                                                   | AT06-12SA-SR2BK | 12 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Black Body (Requires Wedgelock AW12S.) | 16   | 13A |
|                                                                                   | AT06-12SB-SRBK  | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed B, SR01 Strain Relief, Black Body (Requires Wedgelock AW12S.)  | 16   | 13A |
|                                                                                   | AT06-12SB-SR2BK | 12 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed B, SR02 Strain Relief, Black Body (Requires Wedgelock AW12S.) | 16   | 13A |
|                                                                                   | AT06-12SC-SRGN  | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed C, SR01 Strain Relief, Green Body (Requires Wedgelock AW12S.)  | 16   | 13A |
|                                                                                   | AT06-12SC-SR2GN | 12 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed C, SR02 Strain Relief, Green Body (Requires Wedgelock AW12S.) | 16   | 13A |
|                                                                                   | AT06-12SD-SRBR  | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), Keyed D, SR01 Strain Relief, Brown Body (Requires Wedgelock AW12S.)  | 16   | 13A |
|                                                                                   | AT06-12SD-SR2BR | 12 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed D, SR02 Strain Relief, Brown Body (Requires Wedgelock AW12S.) | 16   | 13A |
|  | AW12S           | 12 Position, Plug Wedgelock, Green                                                                                                 | -    | -   |

## 18 Position - AT Series™ SR01/02 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                    |                  |                                                                                                                                 |    |     |
|------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT16-18SA-SR02   | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                    | AT16-18SA-EKSR02 | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Grey Body (No Wedgelock Required.)  | 16 | 13A |
|                                                                                    | AT16-18SB-SR02   | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed B, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                    | AT16-18SC-SR02   | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed C, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                    | AT16-18SC-EKSR02 | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed C, SR02 Strain Relief, Green Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                    | AT16-18SD-SR02   | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed D, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                    | AT16-18SD-EKSR02 | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed D, SR02 Strain Relief, Brown Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                    | AT16-18SE-SR02   | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed E, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                    | AT16-18SE-EKSR02 | 18 Position, Plug, Socket, Reduced Diameter Rear Seal (Green), Keyed E, SR02 Strain Relief, Grey Body (No Wedgelock Required.)  | 16 | 13A |

## 2 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                    |                 |                                                                                                                                                     |    |     |
|------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-2P-SR01GRY | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Gray Body (Requires Wedgelock AW2P.)                            | 16 | 13A |
|                                                                                    | AT04-2P-SR02GRY | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AW2P. Keyed Options Available.)  | 16 | 13A |
|                                                                                    | AT04-2P-SR01BLK | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AW2P.)                           | 16 | 13A |
|                                                                                    | AT04-2P-SR02BLK | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AW2P. Keyed Options Available.) | 16 | 13A |
|                                                                                    | AT04-2P-SR01BLU | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AW2P.)                            | 16 | 13A |
|                                                                                    | AT04-2P-SR02BLU | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Blue Body (Requires Wedgelock AW2P. Keyed Options Available.)  | 16 | 13A |



## 2 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                               | Part Number     | Description                                                                                                                                          | Size | Amp |
|-------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|     | AT04-2P-SR01BRN | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AW2P.)                            | 16   | 13A |
|                                                                                     | AT04-2P-SR02BRN | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Brown Body (Requires Wedgelock AW2P. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT04-2P-SR01WHT | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AW2P.)                            | 16   | 13A |
|                                                                                     | AT04-2P-SR02WHT | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, White Body (Requires Wedgelock AW2P. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT04-2P-SR01YEL | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AW2P.)                           | 16   | 13A |
|                                                                                     | AT04-2P-SR02YEL | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Yellow Body (Requires Wedgelock AW2P. Keyed Options Available.) | 16   | 13A |
|                                                                                     | AT04-2P-SR01GRN | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AW2P.)                            | 16   | 13A |
|                                                                                     | AT04-2P-SR02GRN | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Green Body (Requires Wedgelock AW2P. Keyed Options Available.)  | 16   | 13A |
|                                                                                     | AT04-2P-SR01RED | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AW2P. Keyed Options Available.)     | 16   | 13A |
|                                                                                     | AT04-2P-SR02RED | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Red Body (Requires Wedgelock AW2P. Keyed Options Available.)    | 16   | 13A |
|                                                                                     | AT04-2P-SR01ORG | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AW2P.)                           | 16   | 13A |
|                                                                                     | AT04-2P-SR02ORG | 2 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Orange Body (Requires Wedgelock AW2P. Keyed Options Available.) | 16   | 13A |
|   | AW2P            | 2 Position, Receptacle Wedgelock, Green                                                                                                              | -    | -   |
|  | AW2P-A          | 2 Position, Receptacle Wedgelock, Keyed A, Grey                                                                                                      | -    | -   |
|  | AW2P-B          | 2 Position, Receptacle Wedgelock, Keyed A, Black                                                                                                     | -    | -   |
|  | AW2P-C          | 2 Position, Receptacle Wedgelock, Keyed A, Green                                                                                                     | -    | -   |
|  | AW2P-D          | 2 Position, Receptacle Wedgelock, Keyed A, Brown                                                                                                     | -    | -   |

## 3 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                    |                 |                                                                                                                            |    |     |
|------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-3P-SR01GRY | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Gray Body (Requires Wedgelock AW3P.)   | 16 | 13A |
|                                                                                    | AT04-3P-SR02GRY | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AW3P.)  | 16 | 13A |
|                                                                                    | AT04-3P-SR01BLK | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AW3P.)  | 16 | 13A |
|                                                                                    | AT04-3P-SR02BLK | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AW3P.) | 16 | 13A |
|                                                                                    | AT04-3P-SR01BLU | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AW3P.)   | 16 | 13A |
|                                                                                    | AT04-3P-SR02BLU | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Blue Body (Requires Wedgelock AW3P.)  | 16 | 13A |
|                                                                                    | AT04-3P-SR01BRN | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AW3P.)  | 16 | 13A |
|                                                                                    | AT04-3P-SR02BRN | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Brown Body (Requires Wedgelock AW3P.) | 16 | 13A |

## 3 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                              | Part Number     | Description                                                                                                                 | Size | Amp |
|------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT04-3P-SR01WHT | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AW3P.)   | 16   | 13A |
|                                                                                    | AT04-3P-SR02WHT | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, White Body (Requires Wedgelock AW3P.)  | 16   | 13A |
|                                                                                    | AT04-3P-SR01YEL | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AW3P.)  | 16   | 13A |
|                                                                                    | AT04-3P-SR02YEL | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Yellow Body (Requires Wedgelock AW3P.) | 16   | 13A |
|                                                                                    | AT04-3P-SR01GRN | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AW3P.)   | 16   | 13A |
|                                                                                    | AT04-3P-SR02GRN | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Green Body (Requires Wedgelock AW3P.)  | 16   | 13A |
|                                                                                    | AT04-3P-SR01RED | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AW3P.)     | 16   | 13A |
|                                                                                    | AT04-3P-SR02RED | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Red Body (Requires Wedgelock AW3P.)    | 16   | 13A |
|                                                                                    | AT04-3P-SR01ORG | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AW3P.)  | 16   | 13A |
|                                                                                    | AT04-3P-SR02ORG | 3 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Orange Body (Requires Wedgelock AW3P.) | 16   | 13A |
|   | AW3P            | 3 Position, Receptacle Wedgelock, Green                                                                                     | -    | -   |
|  | AW3P-1939       | 3 Position, J1939 Receptacle Wedgelock, Blue                                                                                | -    | -   |

## 4 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                    |                 |                                                                                                                                                                    |    |     |
|------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-4P-SR01GRY | 4 Position, Receptacle, Pin, Strain Relief, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AW4P. Keyed Options Available.)   | 16 | 13A |
|                                                                                    | AT04-4P-SR02GRY | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Gray Body (Requires Wedgelock AW4P. Keyed Options Available.)                 | 16 | 13A |
|                                                                                    | AT04-4P-SR01BLK | 4 Position, Receptacle, Pin, Strain Relief, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AW4P. Keyed Options Available.)  | 16 | 13A |
|                                                                                    | AT04-4P-SR02BLK | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AW4P. Keyed Options Available.)                | 16 | 13A |
|                                                                                    | AT04-4P-SR01BLU | 4 Position, Receptacle, Pin, Strain Relief, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AW4P. Keyed Options Available.)   | 16 | 13A |
|                                                                                    | AT04-4P-SR02BLU | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Blue Body (Requires Wedgelock AW4P. Keyed Options Available.)                 | 16 | 13A |
|                                                                                    | AT04-4P-SR01BRN | 4 Position, Receptacle, Pin, Strain Relief, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AW4P. Keyed Options Available.)  | 16 | 13A |
|                                                                                    | AT04-4P-SR02BRN | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Brown Body (Requires Wedgelock AW4P. Keyed Options Available.)                | 16 | 13A |
|                                                                                    | AT04-4P-SR01WHT | 4 Position, Receptacle, Pin, Strain Relief, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AW4P. Keyed Options Available.)  | 16 | 13A |
|                                                                                    | AT04-4P-SR02WHT | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, White Body (Requires Wedgelock AW4P. Keyed Options Available.)                | 16 | 13A |
|                                                                                    | AT04-4P-SR01YEL | 4 Position, Receptacle, Pin, Strain Relief, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AW4P. Keyed Options Available.) | 16 | 13A |
|                                                                                    | AT04-4P-SR02YEL | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Yellow Body (Requires Wedgelock AW4P. Keyed Options Available.)               | 16 | 13A |
|                                                                                    | AT04-4P-SR01GRN | 4 Position, Receptacle, Pin, Strain Relief, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AW4P. Keyed Options Available.)  | 16 | 13A |
|                                                                                    | AT04-4P-SR02GRN | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Green Body (Requires Wedgelock AW4P. Keyed Options Available.)                | 16 | 13A |

## 4 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                             | Part Number     | Description                                                                                                                                          | Size | Amp |
|-----------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|   | AT04-4P-SR01RED | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AW4P. Keyed Options Available.)     | 16   | 13A |
|                                                                                   | AT04-4P-SR02RED | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Red Body (Requires Wedgelock AW4P. Keyed Options Available.)    | 16   | 13A |
|                                                                                   | AT04-4P-SR01ORG | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AW4P. Keyed Options Available.)  | 16   | 13A |
|                                                                                   | AT04-4P-SR02ORG | 4 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Orange Body (Requires Wedgelock AW4P. Keyed Options Available.) | 16   | 13A |
|  | AW4P            | 4 Position, Receptacle Wedgelock, Green                                                                                                              | -    | -   |
|  | AW4P-A          | 4 Position, Receptacle Wedgelock, Keyed A, Grey                                                                                                      | -    | -   |
|  | AW4P-B          | 4 Position, Receptacle Wedgelock, Keyed A, Black                                                                                                     | -    | -   |
|  | AW4P-C          | 4 Position, Receptacle Wedgelock, Keyed A, Green                                                                                                     | -    | -   |
|  | AW4P-D          | 4 Position, Receptacle Wedgelock, Keyed A, Brown                                                                                                     | -    | -   |

## 6 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                    |                 |                                                                                                                             |    |     |
|------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-6P-SR01GRY | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AW6P.)    | 16 | 13A |
|                                                                                    | AT04-6P-SR02GRY | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AW6P.)   | 16 | 13A |
|                                                                                    | AT04-6P-SR01BLK | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AW6P.)   | 16 | 13A |
|                                                                                    | AT04-6P-SR02BLK | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AW6P.)  | 16 | 13A |
|                                                                                    | AT04-6P-SR01BLU | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AW6P.)    | 16 | 13A |
|                                                                                    | AT04-6P-SR02BLU | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Blue Body (Requires Wedgelock AW6P.)   | 16 | 13A |
|                                                                                    | AT04-6P-SR01BRN | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AW6P.)   | 16 | 13A |
|                                                                                    | AT04-6P-SR02BRN | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Brown Body (Requires Wedgelock AW6P.)  | 16 | 13A |
|                                                                                    | AT04-6P-SR01WHT | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AW6P.)   | 16 | 13A |
|                                                                                    | AT04-6P-SR02WHT | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, White Body (Requires Wedgelock AW6P.)  | 16 | 13A |
|                                                                                    | AT04-6P-SR01YEL | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AW6P.)  | 16 | 13A |
|                                                                                    | AT04-6P-SR02YEL | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Yellow Body (Requires Wedgelock AW6P.) | 16 | 13A |
|                                                                                    | AT04-6P-SR01GRN | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AW6P.)   | 16 | 13A |
|                                                                                    | AT04-6P-SR02GRN | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Green Body (Requires Wedgelock AW6P.)  | 16 | 13A |
|                                                                                    | AT04-6P-SR01RED | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AW6P.)     | 16 | 13A |
|                                                                                    | AT04-6P-SR02RED | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Red Body (Requires Wedgelock AW6P.)    | 16 | 13A |

## 6 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                             | Part Number     | Description                                                                                                                 | Size | Amp |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------|------|-----|
|   | AT04-6P-SR01ORG | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AW6P.)  | 16   | 13A |
|                                                                                   | AT04-6P-SR02ORG | 6 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Orange Body (Requires Wedgelock AW6P.) | 16   | 13A |
|  | AW6P            | 6 Position, Receptacle Wedgelock, Green                                                                                     | -    | -   |

## 8 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                     |                 |                                                                                                                                     |    |     |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|     | AT04-08PA-SRGRY | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed A, SR01 Strain Relief, Grey Body (Requires Wedgelock AW8P.)   | 16 | 13A |
|                                                                                     | AT04-08PA-SR2GY | 8 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Grey Body (Requires Wedgelock AW8P.)  | 16 | 13A |
|                                                                                     | AT04-08PA-SRBK  | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed A, SR01 Strain Relief, Black Body (Requires Wedgelock AW8P.)  | 16 | 13A |
|                                                                                     | AT04-08PA-SR2BK | 8 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Black Body (Requires Wedgelock AW8P.) | 16 | 13A |
|                                                                                     | AT04-08PB-SRBK  | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed B, SR01 Strain Relief, Black Body (Requires Wedgelock AW8P.)  | 16 | 13A |
|                                                                                     | AT04-08PB-SR2BK | 8 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed B, SR02 Strain Relief, Black Body (Requires Wedgelock AW8P.) | 16 | 13A |
|                                                                                     | AT04-08PC-SRGN  | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed C, SR01 Strain Relief, Green Body (Requires Wedgelock AW8P.)  | 16 | 13A |
|                                                                                     | AT04-08PC-SR2GN | 8 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed C, SR02 Strain Relief, Green Body (Requires Wedgelock AW8P.) | 16 | 13A |
|                                                                                     | AT04-08PD-SRBR  | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed D, SR01 Strain Relief, Brown Body (Requires Wedgelock AW8P.)  | 16 | 13A |
|                                                                                     | AT04-08PD-SR2BR | 8 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed D, SR02 Strain Relief, Brown Body (Requires Wedgelock AW8P.) | 16 | 13A |
|  | AW8P            | 8 Position, Receptacle Wedgelock, Green                                                                                             | -  | -   |

## 12 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                    |                 |                                                                                                                                       |    |     |
|------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-12PA-SRGRY | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed A, SR01 Strain Relief, Grey Body (Requires Wedgelock AW12P.)   | 16 | 13A |
|                                                                                    | AT04-12PA-SR2GY | 12 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Gray Body (Requires Wedgelock AW12P.)  | 16 | 13A |
|                                                                                    | AT04-12PA-SRBK  | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed A, SR01 Strain Relief, Black Body (Requires Wedgelock AW12P.)  | 16 | 13A |
|                                                                                    | AT04-12PA-SR2BK | 12 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Black Body (Requires Wedgelock AW12P.) | 16 | 13A |
|                                                                                    | AT04-12PB-SRBK  | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed B, SR01 Strain Relief, Black Body (Requires Wedgelock AW12P.)  | 16 | 13A |
|                                                                                    | AT04-12PB-SR2BK | 12 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed B, SR02 Strain Relief, Black Body (Requires Wedgelock AW12P.) | 16 | 13A |
|                                                                                    | AT04-12PC-SRGN  | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed C, SR01 Strain Relief, Green Body (Requires Wedgelock AW12P.)  | 16 | 13A |
|                                                                                    | AT04-12PC-SR2GN | 12 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed C, SR02 Strain Relief, Green Body (Requires Wedgelock AW12P.) | 16 | 13A |
|                                                                                    | AT04-12PD-SRBR  | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), Keyed D, SR01 Strain Relief, Brown Body (Requires Wedgelock AW12P.)  | 16 | 13A |
|                                                                                    | AT04-12PD-SR2BR | 12 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed D, SR02 Strain Relief, Brown Body (Requires Wedgelock AW12P.) | 16 | 13A |



12 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                             | Part Number | Description                              | Size | Amp |
|-----------------------------------------------------------------------------------|-------------|------------------------------------------|------|-----|
|  | AW12P       | 12 Position, Receptacle Wedgelock, Green | -    | -   |

18 Position - AT Series™ SR01/02 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                  |                  |                                                                                                                                    |    |     |
|----------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT16-18PA-SR02   | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                  | AT16-18PA-EKSR02 | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed A, SR02 Strain Relief, Grey Body (No Wedgelock Required.)  | 16 | 13A |
|                                                                                  | AT16-18PB-SR02   | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed B, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                  | AT16-18PC-SR02   | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed C, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                  | AT16-18PC-EKSR02 | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed C, SR02 Strain Relief, Green Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                  | AT16-18PD-SR02   | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed D, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                  | AT16-18PD-EKSR02 | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed D, SR02 Strain Relief, Brown Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                  | AT16-18PE-SR02   | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed E, SR02 Strain Relief, Black Body (No Wedgelock Required.) | 16 | 13A |
|                                                                                  | AT16-18PE-EKSR02 | 18 Position, Receptacle, Pin, Reduced Diameter Rear Seal (Green), Keyed E, SR02 Strain Relief, Grey Body (No Wedgelock Required.)  | 16 | 13A |

AT Series™ SR01/02 Accessories

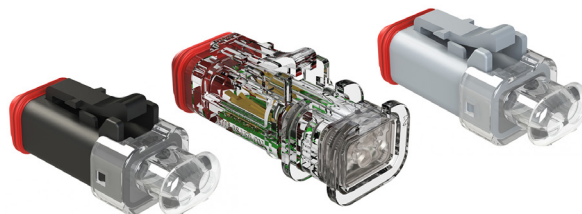
|                                                                                     |                  |                                            |   |   |
|-------------------------------------------------------------------------------------|------------------|--------------------------------------------|---|---|
|  | A114017-SR       | Blank Sealing Plug, Size 16, Black         | - | - |
|   | AT13-217-1605    | Blank Locking Sealing Plug, Size 16, White | - | - |
|   | AT13-217-1605-SR | Blank Locking Sealing Plug, Size 16, Red   | - | - |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

 © 2016 Amphenol Sine Systems Corporation, 44274 Morley Drive, Clinton Township MI 48036 USA. [www.amphenol-sine.com](http://www.amphenol-sine.com). Customer Service +1 800 394 7732 Every effort has been made to ensure that the information contained in this document is accurate at the time of publication. Specifications or information stated in this document are subject to change without notice.



# AT Series™ LED



## 2 Pos, 13A LED Plug Connectors in 12V/24V

Amphenol Sine Systems' **AT Series™ LED (Light Emitting Diode) Plug Connectors**, available in a 12V and/or 24V LED plug option, are a highly-visible, field-serviceable, cost-effective solution for quick visual verification of power to help reduce troubleshooting time. Available in both Black or Grey body shells with clear endcap on our **AT Series™ LED** version, as well as Clear body shells with our **StructurePlus™ AT LED** version.

(The engineered, one-piece, solid body construction of our **StructurePlus™** overmold compatible connectors results in enhanced connection integrity that is an essential component for connecting cable in harsh environments, as well as custom molding and shrink tube options.)

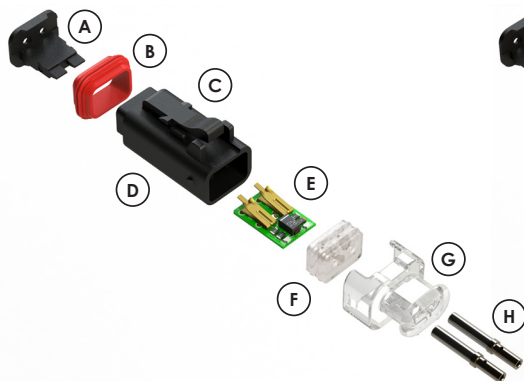


### Key Features

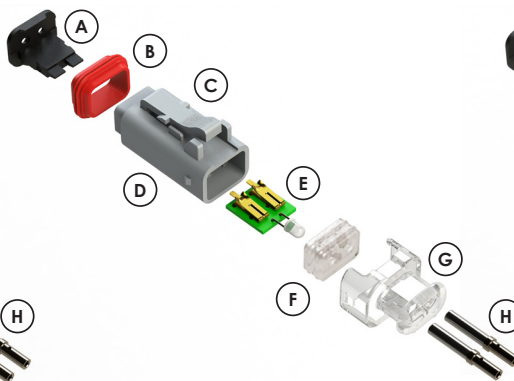
- Environmentally-sealed for harsh environments
- Front and Rear Seals (Standard and Reduced Diam. Avail.)
- Available with or without Reverse Voltage Protection Circuit
- AT-SR01™ Enhanced Strain Relief End Caps come factory assembled on the plug
- Accepts Solid or Stamped & Formed Size 16 AT Series™ contacts
- No additional assembly required other than insertion of chosen contacts

**Potential Applications:** Solenoids, Valves, Sensors, Manifolds, Coils, Diagnostics, Electronic Controls

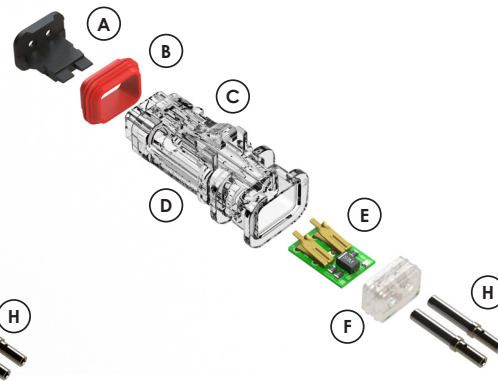
**AT Series™ LED**  
12V or 24V / Black Body



**AT Series LED™**  
12V / Grey Body



**StructurePlus™ AT LED Series**  
12V or 24V / Clear Body



|          |                                      |
|----------|--------------------------------------|
| <b>A</b> | AW2S-LED Wedgelock (Sold Separately) |
| <b>B</b> | Front Seal                           |
| <b>C</b> | Latching Clip                        |
| <b>D</b> | Black, Grey or Clear Options         |

|          |                                                                 |
|----------|-----------------------------------------------------------------|
| <b>E</b> | Integral PCB Board/LED (12V/24V; White, Red, Green LED Options) |
| <b>F</b> | Rear Wire Seal (Standard or Reduced Diameter)                   |
| <b>G</b> | AT-SR01™ Enhanced Strain Relief End Cap (Clear)                 |
| <b>H</b> | Standard AT Series™ 13A/Size 16 Contacts (S&F or Solid Options) |

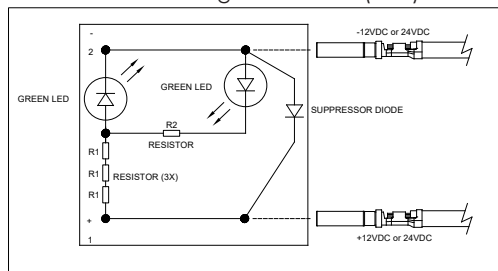


**A Series™ Family**

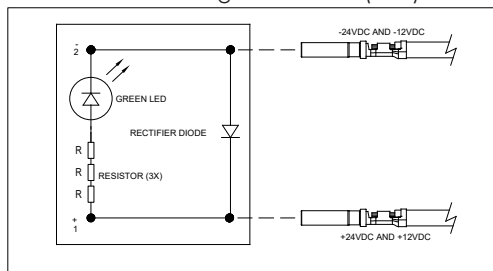


Standard products. Custom solutions  
Customer Service +1 800 394 7732

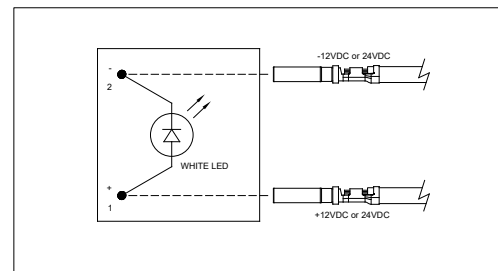
12V or 24V LED w Integrated Rectifier Diode and Reverse Voltage Protection (RVP) Circuit



12V and 24V LED w Integrated Rectifier Diode and Reverse Voltage Protection (RVP) Circuit



12V or 24V LED



AT Series™ Stamped &amp; Formed Contacts

| Part Number  | Description                           | Size | AWG   | Type |
|--------------|---------------------------------------|------|-------|------|
| AT62-14-0122 | Female Contact, Socket, Nickel-plated | 16   | 14-16 | S&F  |
| AT62-14-0144 | Female Contact, Socket, Gold-plated   | 16   | 14-16 | S&F  |
| AT62-16-0122 | Female Contact, Socket, Nickel-plated | 16   | 16-18 | S&F  |
| AT62-16-0144 | Female Contact, Socket, Gold-plated   | 16   | 16-18 | S&F  |
| AT62-16-0622 | Female Contact, Socket, Nickel-plated | 16   | 18-20 | S&F  |
| AT62-16-0644 | Female Contact, Socket, Gold-plated   | 16   | 18-20 | S&F  |
| AT60-14-0122 | Male Contact, Pin, Nickel-plated      | 16   | 14-16 | S&F  |
| AT60-14-0144 | Male Contact, Pin, Gold-plated        | 16   | 14-16 | S&F  |
| AT60-16-0122 | Male Contact, Pin, Nickel-plated      | 16   | 16-18 | S&F  |
| AT60-16-0144 | Male Contact, Pin, Gold-plated        | 16   | 16-18 | S&F  |
| AT60-16-0622 | Male Contact, Pin, Nickel-plated      | 16   | 18-20 | S&F  |
| AT60-16-0644 | Male Contact, Pin, Gold-plated        | 16   | 18-20 | S&F  |

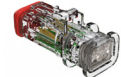
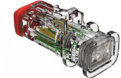
AT Series™ Solid Contacts

| Part Number    | Description                           | Size | AWG   | Type  |
|----------------|---------------------------------------|------|-------|-------|
| AT62-209-1631  | Female Contact, Socket, Gold-plated   | 16   | 14    | Solid |
| AT62-209-16141 | Female Contact, Socket, Nickel-plated | 16   | 14    | Solid |
| AT62-201-1631  | Female Contact, Socket, Gold-plated   | 16   | 16-20 | Solid |
| AT62-201-16141 | Female Contact, Socket, Nickel-plated | 16   | 16-20 | Solid |
| AT60-215-1631  | Male Contact, Pin, Gold-plated        | 16   | 14    | Solid |
| AT60-215-16141 | Male Contact, Pin, Nickel-plated      | 16   | 14    | Solid |
| AT60-202-1631  | Male Contact, Pin, Gold-plated        | 16   | 16-20 | Solid |
| AT60-202-16141 | Male Contact, Pin, Nickel-plated      | 16   | 16-20 | Solid |

2 Position - AT Series™ LED Plugs and Wedgelocks

| Image | Part Number       | Description                                                                                                                                                                       | Size | Amp |
|-------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|       | AT06-2S-LED1201   | 2 Position, Plug, Socket, AT Series™ LED, 12V, Standard Diameter Rear Seal (Red), White LED, AT-SR01™ Clear End Cap, Grey Body (Requires Wedgelock AW2S-LED)                      | 16   | 13A |
|       | AT06-2S-LED1202   | 2 Position, Plug, Socket, AT Series™ LED, 12V, Reduced Diameter Rear Seal (Green), White LED, AT-SR01™ Clear Endcap, Grey Body (Requires Wedgelock AW2S-LED)                      | 16   | 13A |
|       | AT06-2S-LED1220   | 2 Position, Plug, Socket, AT Series™ LED, 12V, Standard Diameter Rear Seal (Red), Red LED, AT-SR01™ Clear Endcap, Grey Body (Requires Wedgelock AW2S-LED)                         | 16   | 13A |
|       | AT06-2S-LED1224V  | 2 Position, Plug, Socket, AT Series™ LED, 12V or 24V, RVP Circuit, Standard Diameter Rear Seal (Red), Green LED, AT-SR01™ Clear Endcap, Black Body (Requires Wedgelock AW2S-LED)  | 16   | 13A |
|       | AT06-2S-LED1224VR | 2 Position, Plug, Socket, AT Series™ LED, 12V or 24V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, AT-SR01™ Clear Endcap, Black Body (Requires Wedgelock AW2S-LED) | 16   | 13A |
|       | AT06-2S-LED1230   | 2 Position, Plug, Socket, AT Series™ LED, 12V, Standard Diameter Rear Seal (Red), Green LED, AT-SR01™ Clear Endcap, Grey Body (Requires Wedgelock AW2S-LED)                       | 16   | 13A |
|       | AT06-2S-LED12V01  | 2 Position, Plug, Socket, AT Series™ LED, 12V, Standard Diameter Rear Seal (Red), RVP Circuit, Green LED, AT-SR01™ Clear Endcap, Grey Body (Requires Wedgelock AW2S-LED)          | 16   | 13A |

## 2 Position - AT Series™ LED Plugs and Wedgelocks, cont.

| Image                                                                              | Part Number           | Description                                                                                                                                                               | Size | Amp |
|------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT06-2S-LED12VR1      | 2 Position, Plug, Socket, AT Series™ LED, 12V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, AT-SR01™ Clear Endcap, Grey Body (Requires Wedgelock AW2S-LED) | 16   | 13A |
|    | AT06-2S-LED2401       | 2 Position, Plug, Socket, AT Series™ LED, 24V, Standard Diameter Rear Seal (Red), White LED, AT-SR01™ Clear End Cap, Black Body (Requires Wedgelock AW2S-LED)             | 16   | 13A |
|    | AT06-2S-LED2402       | 2 Position, Plug, Socket, AT Series™ LED, 24V, Reduced Diameter Rear Seal (Green), White LED, AT-SR01™ Clear Endcap, Black Body (Requires Wedgelock AW2S-LED)             | 16   | 13A |
|    | AT06-2S-LED2420       | 2 Position, Plug, Socket, AT Series™ LED, 24V, Standard Diameter Rear Seal (Red), Red LED, AT-SR01™ Clear Endcap, Black Body (Requires Wedgelock AW2S-LED)                | 16   | 13A |
|    | AT06-2S-LED2430       | 2 Position, Plug, Socket, AT Series™ LED, 24V, Standard Diameter Rear Seal (Red), Green LED, AT-SR01™ Clear Endcap, Black Body (Requires Wedgelock AW2S-LED)              | 16   | 13A |
|   | AT06-2S-LED24V01      | 2 Position, Plug, Socket, AT Series™ LED, 24V, RVP Circuit, Standard Diameter Rear Seal (Red), Green LED, AT-SR01™ Clear Endcap, Black Body (Requires Wedgelock AW2S-LED) | 16   | 13A |
|  | AT06-2S-LED24VR1      | 2 Pos, Plug, Socket, AT Series™ LED, 24V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, AT-SR01™ Clear Endcap, Black Body (Requires Wedgelock AW2S-LED)     | 16   | 13A |
|  | AT06-2S-LED1224V-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 12V or 24V, RVP Circuit, Standard Diameter Rear Seal (Red), Green LED, Clear Body (AW2S-LED)                            | 16   | 13A |
|  | AT06-2S-LED1224VR-OMC | 2 Position, Plug, Socket, Structure Plus™ AT LED, 12V or 24V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, Clear Body (Requires Wedgelock AW2S-LED),       | 16   | 13A |
|  | AT06-2S-LED12V01-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 12V, RVP Circuit, Standard Diameter Rear Seal (Red), Green LED, Clear Body (Requires Wedgelock AW2S-LED)                | 16   | 13A |
|  | AT06-2S-LED12VR1-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 12V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, Clear Body (Requires Wedgelock AW2S-LED),              | 16   | 13A |
|  | AT06-2S-LED24V01-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 24V, RVP Circuit, Standard Diameter Rear Seal (Red), Green LED, Clear Body (Requires Wedgelock AW2S-LED)                | 16   | 13A |
|  | AT06-2S-LED24VR1-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 24V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, Clear Body, (Requires Wedgelock AW2S-LED),             | 16   | 13A |



## 2 Position - AT Series™ LED Plugs and Wedgelocks, cont.

| Image                                                                             | Part Number | Description                         | Size | Amp |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------|------|-----|
|  | AW2S-LED    | 2 Position, LED Wedgelock, Black    | -    | -   |
|  | 50-80590    | AT Series™ LED Contact Removal Tool | -    | -   |

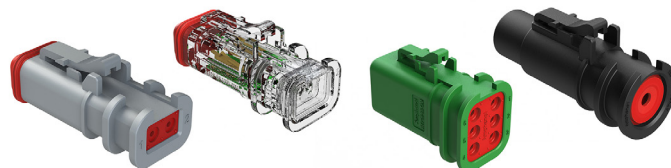
## 2 Position - AT Series™ LED Plug Kits

|                                                                                  |                 |                                                                                                                                                           |    |     |
|----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT06-2S-LED12K1 | 2 Position, Plug Kit, AT Series™ LED, 12V, Standard Diameter Rear Seal (Red), White LED, AT-SR01™ Clear Endcap, Grey Body, Contacts and Wedge included    | 16 | 13A |
|  | AT06-2S-LED12K2 | 2 Position, Plug Kit, AT Series™ LED, 12V, Reduced Diameter Rear Seal (Green), White LED, AT-SR01™ Clear Endcap, Grey Body, Contacts and Wedge included   | 16 | 13A |
|  | AT06-2S-LED24K1 | 2 Position, Plug Kit, AT Series™ LED, 24V, Standard Diameter Rear Seal (Red), White LED, AT-SR01™ Clear Endcap, Black Body Contacts and Wedge included.   | 16 | 13A |
|  | AT06-2S-LED24K2 | 2 Position, Plug Kit, AT Series™ LED, 24V, Reduced Diameter Rear Seal (Green), White LED, AT-SR01™ Clear Endcap, Black Body, Contacts and Wedge included. | 16 | 13A |

## Related Items



## Overmold Compatible Connectors for AT, AT LED, ATHD and ATP Series™ Connectors


**Available in 1, 2, 3, 4, 6, 8 and 12 position**

Amphenol Sine Systems' **StructurePlus™ Family** of overmold compatible connectors are an **engineered, one-piece, solid body construction and are specifically designed for cable assembly operations requiring custom molding or shrink tube requirements**. The added connector structure results in enhanced connection integrity that is an essential component for connecting cable in harsh environments.

**Potential Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy, Agricultural as well as other demanding interconnect applications

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# AT ATSeries™ Bulkhead

48 Position Bulkhead Receptacles



**Available in 4 X 12 (48 Pos) Configuration**

Our **AT Series™ Bulkhead Receptacle** combines a robust, easy to mount IP67 sealed housing with the benefits of **AT Series™ (13A)** connectors requiring less operating space, allowing higher density installation. Available in a 4 X 12 (48 Pos) configuration, each connector module is individually keyed, and color coded to prevent mis-mating. Suitable for a wide range of applications with the ability to attach from the front side of device and secure locking with high resistance to vibrations offers increased design flexibility.

The **AT Series™** connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. Connector housings are manufactured with a durable, UV resistant, thermoplastic material with dielectric/mechanical properties and environmentally RoHS compliant. The sealing system is comprised of front and rear silicone seals, multi-sealing perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection.

**Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy, Agricultural and other demanding interconnect architectures

## Key Features

- Standard or Reduced Diameter Wire Sealing Capability
- Captive Bulkhead Seal with Advanced Environmental Sealing Performance (IP67)
- Colored Coded for Easy Visual Identification & Individually "Keying" Prevents Mis-mate
- Rapid & Secure Installation, Compact & Lightweight
- Space Saving, Easy Attachment to Connector at Any Time
- Suitable for a Wide Range of Harsh Applications
- Common Contact System (Size 16, 14-20AWG)
- Excellent Tactile-Click Mating
- Compatible with **AT Series™** Plug Connectors and other existing standard products industry-wide.

**AT ATSeries™**  
12 Pos. Plugs  
Keyed A/B/C/D



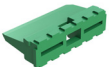
**A ASeries™ Family**

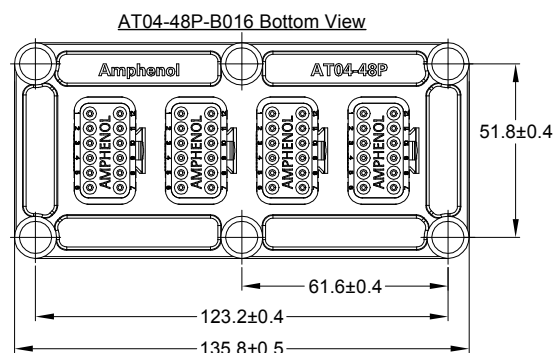
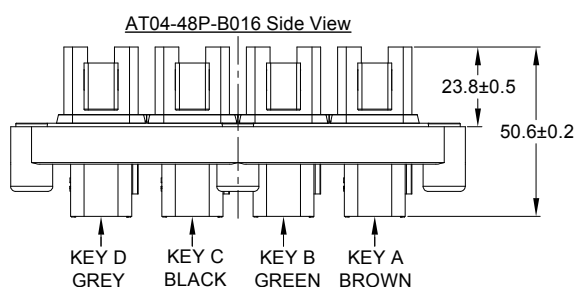


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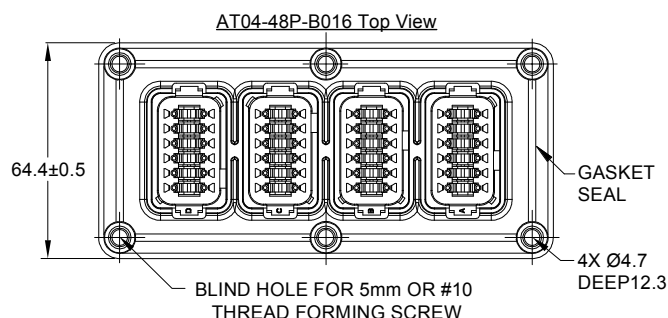
AT Series™ Bulkhead Receptacles and AT Series™ Plugs

| Image                                                                               | Part Number     | Description                                                                                                                  | Contact Size | Amps/Voltage | AWG   |
|-------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------|
|    | AT04-48P-B016   | 48 Pos. (4 x 12 Pos.), Receptacle, Keyed A/B/C/D, Sealed Flange (AW12P Wedge sold separately. See below.)                    | 16           | 13/250       | 14-20 |
|    | AT04-48P-B016RD | 48 Pos. (4 x 12 Pos.), Receptacle, Keyed A/B/C/D, Sealed Flange, Reduced Rear Seal (AW12P Wedge sold separately. See below.) | 16           | 13/250       | 14-20 |
|    | AW12P           | 12 Pos., Wedgelock, Receptacle (AW12S Wedge sold separately.)                                                                | -            | -            | -     |
|    | AT06-12SA       | 12 Pos., Plug, Keyed A (AW12S Wedge sold separately. See below.)                                                             | 16           | 13/250       | 14-20 |
|    | AT06-12SB       | 12 Pos., Plug, Keyed B (AW12S Wedge sold separately. See below.)                                                             | 16           | 13/250       | 14-20 |
|   | AT06-12SC       | 12 Pos., Plug, Keyed C (AW12S Wedge sold separately. See below.)                                                             | 16           | 13/250       | 14-20 |
|  | AT06-12SD       | 12 Pos., Plug, Keyed D (AW12S Wedge sold separately. See below.)                                                             | 16           | 13/250       | 14-20 |
|  | AW12S           | 12 Pos., Wedgelock, Plug (AW12S Wedge sold separately.)                                                                      | -            | -            | -     |



Contact Size and Rear Seal Range

|          | Contact Size | Min Insulation O.D. | Max Insulation O.D. | AWG Range |
|----------|--------------|---------------------|---------------------|-----------|
| Standard | 16           | 2.24mm (.088 in)    | 3.68mm (.145 in)    | 14-20     |
| Reduced  | 16           | 1.35mm (.053 in)    | 3.05mm (.120 in)    | 14-20     |



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)



# AT **ATSeries™**

## Integrated Resistors & Diodes for Heavy Duty Applications

- Bussing • Thermistors • Industry standard options for J1939
- Environmentally-sealed for harsh conditions
- Factory-assembled for simple plug-and-play installation
- Eliminates issues with soldering components in wiring harness
- Custom electronic packaging for all AT, ATP and ATM Series™ connectors



## Customized DIY Electronic Packaging Kits Available

Contact Customer Service for Custom Solutions and More



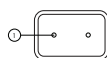
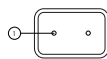
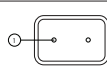
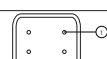
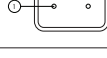
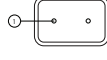
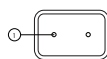
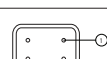
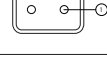
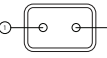
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## AT Series™ Integrated Resistor and Diodes - Receptacles and Plugs

| Part                                                                               | Face View                                                                           | Part Number     | Type                   | Description                                                                                                                                                                                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |    | AT04-2P-R120YEL | Receptacle, Resistor   | 2 Position, Receptacle, 120 Ohm Resistor, NI Pins, Yellow, Wedgelock                                                                                                                       |
|    |    | AT04-2P-THM10K  | Receptacle, Thermistor | 2 Position, Receptacle, 10K Ohm Thermistor, NI Pins, Red, Wedgelock                                                                                                                        |
|    |    | AT04-2P-DIN4GRY | Receptacle, Diode      | 2 Position, Receptacle, Diode, 1N4004, NI Pins, Grey, Wedgelock                                                                                                                            |
|    |    | AT04-3P-RJ120BK | Receptacle, Resistor   | 3 Position, Receptacle, J1939-11, 120 Ohm Resistor, Gold Pins, Black, Blue Wedgelock                                                                                                       |
|    |    | AT04-3P-RJ120   | Receptacle, Resistor   | 3 Position, Receptacle, J1939-11, 120 Ohm Resistor, Gold Pins, Grey, Blue Wedgelock                                                                                                        |
|    |    | AT04-4P-R1K2K   | Receptacle, Resistor   | 4 Position, Receptacle, 1.2K & 2.7K Ohm Resistor, NI Pins, Grey, Wedgelock                                                                                                                 |
|    |    | AT04-6P-R120BL  | Receptacle, Resistor   | 6 Position, Receptacle, 6 Gang Buss w/ 120 Ohm Resistor, NI Pins, Blue, Wedgelock                                                                                                          |
|    |    | AT04-2P-RT01    | Receptacle, Terminator | 2 Position Receptacle, Pin, Terminator, Black                                                                                                                                              |
|    |    | AT04-2P-RT02    | Receptacle, Terminator | 2 Position Receptacle, Pin, Terminator, Black                                                                                                                                              |
|   |   | AT04-2P-RT06    | Receptacle, Diode      | 2 Position Receptacle, Pin, T.V.S. Diode, Green                                                                                                                                            |
|  |  | AT04-2P-RT25    | Receptacle, Resistor   | 2 Position Receptacle, Pin, Resistor, Black                                                                                                                                                |
|  |  | AT04-4P-RT01    | Receptacle, Terminator | 4 Position Receptacle, Pin, Terminator, Black                                                                                                                                              |
|  |  | AT04-4P-RT03    | Receptacle, Terminator | 4 Position Receptacle, Pin, Terminator, Grey                                                                                                                                               |
|  |  | AT06-2S-R120YEL | Plug, Resistor         | 2 Position, Plug, 120 Ohm Resistor, NI Sockets, Yellow, Standard Wedgelock                                                                                                                 |
|  |  | AT06-2S-D1224V  | Plug, Diode            | 2 Position, Plug, Socket, Integrated Rectifier Diode, 12V or 24V, 13A, Clear Endcap (No LED), Black Body (AW2S-LED Wedgelock Required) Mates to AT04-2P* Receptacle                        |
|  |  | AT06-2S-D1224VR | Plug, Diode            | 2 Position, Plug, Socket, Integrated Rectifier Diode, 12V or 24V, 13A, Reduced Diameter Seal, Clear Endcap (No LED), Black Body (AW2S-LED Wedgelock Required) Mates to AT04-2P* Receptacle |
|  |  | AT06-3S-RJ120BK | Plug, Resistor         | 3 Position, Plug, J1939-11, 120 Ohm Resistor, Gold Sockets, Grey, Blue Wedgelock                                                                                                           |
|  |  | AT06-3S-RJ120   | Plug, Resistor         | 3 Position, Plug, J-1939, 120 Ohm Resistor, End Cap, Grey, Blue Wedgelock                                                                                                                  |
|  |  | AT06-3S-R680    | Plug, Resistor         | 3 Position, Plug, 680 Ohm Resistor, End Cap, Grey, Standard Wedgelock<br><b>NOTE:</b> Resistor is between A and B position.                                                                |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# ATHD Series™



## Heavy Duty, Thermoplastic, Power Connectors

### Available in Single Position

Our **ATHD Series™** Heavy Duty Power Connectors provide an environmentally sealed connection system and solution to field splices and terminals in harsh environments. Safety features include an integral latch to prevent inadvertent disconnect and an audible, tactile, "click" provides circuit confirmation. Precision machined contact technology maximizes performance and durability while delivering up to 100A of power.

Available in **In-Line (Wire-to-Wire)**, **BoardLock™**, **PanelMate™** and **StructurePlus™** options. Also available as cable assemblies in a variety of standard lengths (1, 2, 4, 5 and 10 Meter).



**Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural

### Key Features

- Intermatable with industry standard connectors
- Circular, Thermoplastic Housing
- Integral Latch Prevents Inadvertent Disconnect
- In-line (Wire-to-Wire), BoardLock™ or PanelMate™ Options
- Customized project-specific colors

### Available Modifications

- **-BMXX** - BoardLock™ ATFHD Receptacle
- **-L009** - PanelMate™ ATHD Receptacle for inside mounting
- **-L013** - PanelMate™ ATHD Receptacle for outside mounting
- **-OM** - StructurePlus™ ATHD Overmold Capable
- **-E003** - Endcap



|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Current Rating               | Up to 100A                                             |
| Voltage Rating               | Up to 1000V                                            |
| Operating Temperature        | -55°C to +125°C                                        |
| Dielectric Withstand Voltage | Less than 2 Milliamps Current Leakage @ up to 3000V AC |
| Insulation Resistance        | 1000 Megohms Minimum @ 25°C                            |
| Mating Cycle Durability      | >100 Cycles                                            |
| Wire Size                    | 4-14AWG                                                |



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Single Position - **ATHD Series™** Receptacles

| Image                                                                            | Part Number       | Description                                                 | Size | Amp  |
|----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------|------|------|
|  | ATHD04-1-4P       | Single Position, Receptacle, Pin, ATHD™, Black Body         | 4    | 100A |
|  | ATHD04-1-8P       | Single Position, Receptacle, Pin, ATHD™, Black Body         | 8    | 60A  |
|  | ATHD04-1-8P-E003  | Single Position, Receptacle, Pin, ATHD™, Endcap, Black Body | 8    | 60A  |
|  | ATHD04-1-12P      | Single Position, Receptacle, Pin, ATHD™, Black Body         | 12   | 25A  |
|  | ATHD04-1-12P-E003 | Single Position, Receptacle, Pin, ATHD™, Endcap, Black Body | 12   | 25A  |

 Single Position - **BoardLock™** ATFHD Receptacles

|                                                                                     |                   |                                                                                             |   |      |
|-------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------|---|------|
|    | ATFHD13-1-4P-BM11 | Single Position, Receptacle, Pin, Gold-Plated, BoardLock™ ATFHD, Self-Tapping, Black Body   | 4 | 100A |
|  | ATFHD13-1-4P-BM13 | Single Position, Receptacle, Pin, Nickel-Plated, BoardLock™ ATFHD, Self-Tapping, Black Body | 4 | 100A |

 Single Position - **PanelMate™** ATHD Receptacles

|                                                                                     |                   |                                                                                                                                                                   |    |      |
|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
|  | ATHD04-1-4P-L009  | Single Position, Receptacle with Inside Mount Sealed Flange, Pin, Size 4, PanelMate™ ATHD, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body  | 4  | 100A |
|  | ATHD04-1-4P-L013  | Single Position, Receptacle with Outside Mount Sealed Flange, Pin, Size 4, PanelMate™ ATHD, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body | 4  | 100A |
|  | ATHD04-1-8P-PM05  | Single Position, Receptacle with Flange, Pin, Size 8, PanelMate™ ATHD, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Black Body                     | 8  | 60A  |
|  | ATHD04-1-8P-PM11  | Single Position, Receptacle with Flange, Pin, Size 8, PanelMate™ ATHD, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body                      | 8  | 60A  |
|  | ATHD04-1-12P-PM05 | Single Position, Receptacle with Flange, Pin, Size 12, PanelMate™ ATHD, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Black Body                    | 12 | 25A  |
|  | ATHD04-1-12P-PM11 | Single Position, Receptacle with Flange, Pin, Size 12, PanelMate™ ATHD, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body                     | 12 | 25A  |

 Single Position - **ATHD Series™** Plugs

|                                                                                     |             |                                               |   |      |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------|---|------|
|  | ATHD06-1-4S | Single Position, Plug, Pin, ATHD™, Black Body | 4 | 100A |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------|---|------|

Single Position - **ATHD Series™** Plugs, cont.

| Image                                                                             | Part Number       | Description                                              | Size | Amp |
|-----------------------------------------------------------------------------------|-------------------|----------------------------------------------------------|------|-----|
|  | ATHD06-1-8S       | Single Position, Plug, Socket, ATHD™, Black Body         | 8    | 60A |
|  | ATHD06-1-8S-E003  | Single Position, Plug, Socket, ATHD™, Endcap, Black Body | 8    | 60A |
|  | ATHD06-1-12S      | Single Position, Plug, Socket, ATHD™, Black Body         | 12   | 25A |
|  | ATHD06-1-12S-E003 | Single Position, Plug, Socket, ATHD™, Endcap, Black Body | 12   | 25A |

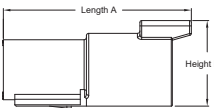
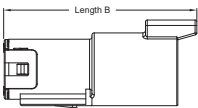
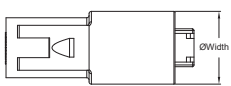
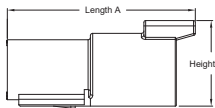
 Single Position - **StructurePlus™** ATHD Plugs

|                                                                                   |                 |                                                                |    |     |
|-----------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------|----|-----|
|   | ATHD06-1-8S-OM  | Single Position, Plug, Socket, StructurePlus™ ATHD, Black Body | 8  | 60A |
|  | ATHD06-1-12S-OM | Single Position, Plug, Socket, StructurePlus™ ATHD, Black      | 12 | 25A |

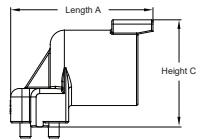
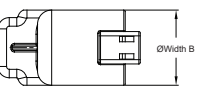
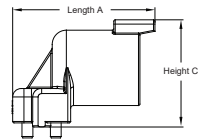
 Single Position - **ATHD Series™** Contacts

| Image                                                                               | Part Number      | Description                                             | Size | Amp  |
|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------------|------|------|
|  | AT60-203-04141-4 | Pin, Machined, 4AWG, Copper Alloy, Nickel-plated        | 4    | 100A |
|  | AT60-204-0490    | Pin, Machined, 6AWG, Copper Alloy, Nickel-plated        | 4    | 100A |
|  | AT60-204-08141   | Pin, Machined, 8-10AWG, Copper Alloy, Nickel-plated     | 8    | 60A  |
|  | AT60-204-12141   | Pin, Machined, 12-14AWG, Copper Alloy, Nickel-plated    | 12   | 25A  |
|  | AT60-220-1231    | Pin, Machined, 12-14AWG, Copper Alloy, Gold-plated      | 12   | 25A  |
|  | AT62-203-04141   | Socket, Machined, 6AWG, Copper Alloy, Nickel-plated     | 4    | 100A |
|  | AT62-203-04141-4 | Socket, Machined, 4AWG, Copper Alloy, Nickel-plated     | 4    | 100A |
|  | AT62-203-08141   | Socket, Machined, 8-10AWG, Copper Alloy, Nickel-plated  | 8    | 60A  |
|  | AT62-203-12141   | Socket, Machined, 12-14AWG, Copper Alloy, Nickel-plated | 12   | 25A  |
|  | AT62-210-1231    | Socket, Machined, 12-14AWG, Copper Alloy, Gold-plated   | 12   | 25A  |

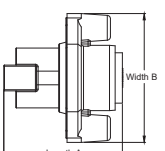
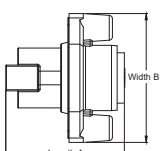
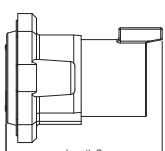
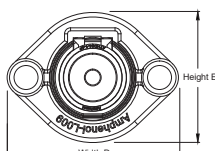
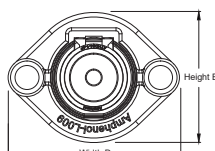
**ATHD Series™ Receptacle Dimensions (in mm)**

|      |  |  |  |  |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Size | Length A                                                                          | Length B<br>(-E003 Modification)                                                  | ØWidth C                                                                           | Height D                                                                            |
| 4P   | 52.5                                                                              | -                                                                                 | 26.5                                                                               | 29.8                                                                                |
| 8P   | 52.9±0.6                                                                          | 53.8                                                                              | 20.3                                                                               | 23.9                                                                                |
| 12P  | 52.5±0.6                                                                          | 53.8±0.6                                                                          | 18.0                                                                               | 21.6                                                                                |

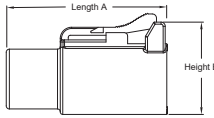
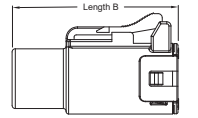
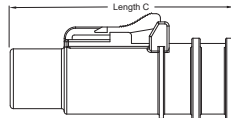
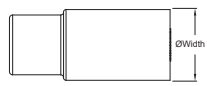
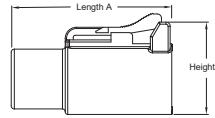
**BoardLock™ ATHD Receptacle Dimensions (in mm)**

|      |  |  |  |
|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Size | Length A                                                                          | ØWidth B                                                                          | Height C                                                                          |
| 4P   | 50.1                                                                              | 26.5                                                                              | 37.8                                                                              |

**PanelMate™ ATHD Receptacle Dimensions (in mm)**

|      |  |  |  |  |  |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Size | Length A<br>(-L009 Front Flange Mount)                                              | Width B<br>(-L009 Front Flange Mount)                                               | Length C<br>(-L013 Rear Flange Mount)                                               | Width D<br>(-L013 Rear Flange Mount)                                                  | Height E<br>(-L009/L013)                                                              |
| 4P   | 52.5                                                                                | 57.3                                                                                | 52.5                                                                                | 57.3                                                                                  | 43.3                                                                                  |

**ATHD Series™ Plug Dimensions (in mm)**

|      |  |  |  |  |  |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Size | Length A                                                                            | Length B<br>(-E003 Modification)                                                    | Length C<br>(-OM Modification-<br>StructurePlus™)                                    | ØWidth D                                                                              | Height E                                                                              |
| 4S   | 38.2                                                                                | -                                                                                   | -                                                                                    | 22.3                                                                                  | 29.4                                                                                  |
| 8S   | 38.1±0.5                                                                            | 39.3±0.5                                                                            | 53.5±0.5                                                                             | 16.8                                                                                  | 21.9                                                                                  |
| 12S  | 38.0±0.5                                                                            | 39.3±0.5                                                                            | 53.0±0.5                                                                             | 14.5                                                                                  | 19.6                                                                                  |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# ATHD Series™ Cable Assemblies



## Available in Single Position Plugs and Receptacles (Size #8 and #12)

Single-ended cordset standard lengths of 1, 2, 4, 5 and 10 Meters. Contact Customer Service for custom cable length options.

Amphenol Sine Systems' **ATHD Series™ Cable Assemblies** are an overmolded, strain relief option based on our **ATHD Series™ Heavy-Duty Power Connectors**, which provide an environmentally sealed connection system and solution to field splices and terminals in harsh environments. Safety features include an integral latch to prevent inadvertent disconnect and an audible, tactile, "click" provide circuit confirmation. Precision machined contact technology maximizes performance and durability while delivering up to 75A of power in our cable assemblies.

Our Plug assemblies feature our **StructurePlus™ ATHD** design, **an engineered, one-piece, solid body construction specifically designed for cable assembly operations**. The added connector structure results in enhanced connection integrity that is an essential component for connecting cable in harsh environments.



The process utilizes first-quality resins which encapsulate the wire terminations into the connector housing creating a highly functional & compact strain relief to ensure a long service life. Built to exceptional quality standards, the resulting barrier of protection provides **IP68 rated (1M of water for 24 hrs in mated condition)** sealing capability, preventing liquid ingress for a variety of markets such as Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural.



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Cable Assembly Specifications

|                    |                                                                                   |
|--------------------|-----------------------------------------------------------------------------------|
| Temp Range         | -40°C to +100°C                                                                   |
| Current Rating     | <b>Size 8/8AWG:</b> 75A<br><b>Size 12/10AWG:</b> 40A<br><b>Size 12/12AWG:</b> 30A |
| Voltage            | 600V AC/DC                                                                        |
| Mating Cycles      | >100                                                                              |
| Sealing Protection | IP68 (1M of water for 24 hrs in mated condition)                                  |
| Housing/Overmold   | PA66/Polyamide                                                                    |
| Seals              | Silicone Rubber                                                                   |
| Contacts           | Copper Alloy, Nickel-plated                                                       |
| RoHS Compliant     | All connector materials meet the requirements of the EU Directive 2002/95/EC      |

Cable Specifications

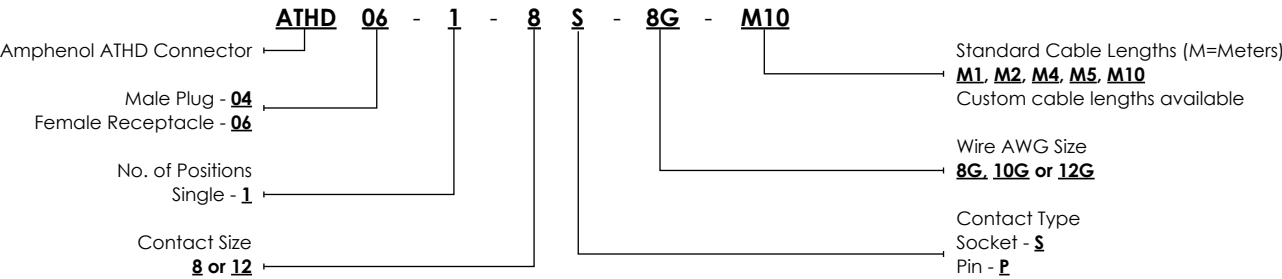
|                  |                                                                                                                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable Components | <b>Size 8/8AWG:</b><br>PVC Insulated Conductors 133x29 Bare Copper, UL1028<br><b>Size 12/10AWG:</b><br>PVC Insulated Conductors 105x30 Bare Copper, UL1015<br><b>Size 12/12AWG:</b><br>PVC Insulated Conductors 65x30 Bare Copper, UL1015           |
| Cable Type       | PVC, Black                                                                                                                                                                                                                                          |
| Cable Approvals  | <b>Size 8/8AWG:</b><br>UL Type AWM, Style 1028, CSA Type TEW, FT1 Flame Rated<br><b>Size 12/10AWG:</b><br>UL Type AWM, Style 1015, CSA Type TEW, FT1 Flame Rated<br><b>Size 12/12AWG:</b><br>UL Type AWM, Style 1015, CSA Type TEW, FT1 Flame Rated |
| Cable Resistance | Sunlight and Oil Resistant                                                                                                                                                                                                                          |

**Note:** All datasheets containing specifications and wiring diagrams can be found at [www.amphenol-sine.com](http://www.amphenol-sine.com) under their specific part numbers.

Key Features



Part Numbering Sequence



## Single Position - ATHD Series™ Cable Assembly Plugs

Available in M1, M2, M4, M5 and M10 lengths (M = Meters)

| Image                                                                            | Part Number        | Description                                                                                                                      | Size/AWG | Amp |
|----------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|----------|-----|
|  | ATHD06-1-8S-8G-M1  | 1 Position, Molded Plug, Socket, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 1 Meter Length (Mates to ATHD04-1-8P)  | 8/8AWG   | 75A |
|                                                                                  | ATHD06-1-8S-8G-M2  | 1 Position, Molded Plug, Socket, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 2 Meter Length (Mates to ATHD04-1-8P)  | 8/8AWG   | 75A |
|                                                                                  | ATHD06-1-8S-8G-M4  | 1 Position, Molded Plug, Socket, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 4 Meter Length (Mates to ATHD04-1-8P)  | 8/8AWG   | 75A |
|                                                                                  | ATHD06-1-8S-8G-M5  | 1 Position, Molded Plug, Socket, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 5 Meter Length (Mates to ATHD04-1-8P)  | 8/8AWG   | 75A |
|                                                                                  | ATHD06-1-8S-8G-M10 | 1 Position, Molded Plug, Socket, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 10 Meter Length (Mates to ATHD04-1-8P) | 8/8AWG   | 75A |

|                                                                                  |                      |                                                                                                                                     |          |     |
|----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|-----|
|  | ATHD06-1-12S-10G-M1  | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 1 Meter Length (Mates to ATHD04-1-12P)  | 12/10AWG | 40A |
|                                                                                  | ATHD06-1-12S-10G-M2  | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 2 Meter Length (Mates to ATHD04-1-12P)  | 12/10AWG | 40A |
|                                                                                  | ATHD06-1-12S-10G-M4  | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 4 Meter Length (Mates to ATHD04-1-12P)  | 12/10AWG | 40A |
|                                                                                  | ATHD06-1-12S-10G-M5  | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 5 Meter Length (Mates to ATHD04-1-12P)  | 12/10AWG | 40A |
|                                                                                  | ATHD06-1-12S-10G-M10 | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 10 Meter Length (Mates to ATHD04-1-12P) | 12/10AWG | 40A |

|                                                                                    |                      |                                                                                                                                     |          |     |
|------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|-----|
|  | ATHD06-1-12S-12G-M1  | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 1 Meter Length (Mates to ATHD04-1-12P)  | 12/12AWG | 30A |
|                                                                                    | ATHD06-1-12S-12G-M2  | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 2 Meter Length (Mates to ATHD04-1-12P)  | 12/12AWG | 30A |
|                                                                                    | ATHD06-1-12S-12G-M4  | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 4 Meter Length (Mates to ATHD04-1-12P)  | 12/12AWG | 30A |
|                                                                                    | ATHD06-1-12S-12G-M5  | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 5 Meter Length (Mates to ATHD04-1-12P)  | 12/12AWG | 30A |
|                                                                                    | ATHD06-1-12S-12G-M10 | 1 Position, Molded Plug, Socket, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 10 Meter Length (Mates to ATHD04-1-12P) | 12/12AWG | 30A |

## Single Position - ATHD Series™ Cable Assembly Receptacles

|                                                                                    |                    |                                                                                                                                     |        |     |
|------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------|-----|
|  | ATHD04-1-8P-8G-M1  | 1 Position, Molded Receptacle, Pin, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 1 Meter Length (Mates to ATHD06-1-8S)  | 8/8AWG | 75A |
|                                                                                    | ATHD04-1-8P-8G-M2  | 1 Position, Molded Receptacle, Pin, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 2 Meter Length (Mates to ATHD06-1-8S)  | 8/8AWG | 75A |
|                                                                                    | ATHD04-1-8P-8G-M4  | 1 Position, Molded Receptacle, Pin, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 4 Meter Length (Mates to ATHD06-1-8S)  | 8/8AWG | 75A |
|                                                                                    | ATHD04-1-8P-8G-M5  | 1 Position, Molded Receptacle, Pin, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 5 Meter Length (Mates to ATHD06-1-8S)  | 8/8AWG | 75A |
|                                                                                    | ATHD04-1-8P-8G-M10 | 1 Position, Molded Receptacle, Pin, Size 8, Single-Ended Cable Assembly, 8AWG, ATHD™ Series, 10 Meter Length (Mates to ATHD06-1-8S) | 8/8AWG | 75A |

|                                                                                    |                      |                                                                                                                                        |          |     |
|------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----|
|  | ATHD04-1-12P-10G-M1  | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 1 Meter Length (Mates to ATHD06-1-12S)  | 12/10AWG | 40A |
|                                                                                    | ATHD04-1-12P-10G-M2  | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 2 Meter Length (Mates to ATHD06-1-12S)  | 12/10AWG | 40A |
|                                                                                    | ATHD04-1-12P-10G-M4  | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 4 Meter Length (Mates to ATHD06-1-12S)  | 12/10AWG | 40A |
|                                                                                    | ATHD04-1-12P-10G-M5  | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 5 Meter Length (Mates to ATHD06-1-12S)  | 12/10AWG | 40A |
|                                                                                    | ATHD04-1-12P-10G-M10 | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 10AWG, ATHD™ Series, 10 Meter Length (Mates to ATHD06-1-12S) | 12/10AWG | 40A |

Single Position - ATHD Series™ Cable Assembly Receptacles, cont.

Available in M1, M2, M4, M5 and M10 lengths (M = Meters)

| Image                                                                            | Part Number          | Description                                                                                                                            | Size/AWG | Amp |
|----------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----|
|  | ATHD04-1-12P-12G-M1  | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 1 Meter Length (Mates to ATHD06-1-12S)  | 12/12AWG | 30A |
|                                                                                  | ATHD04-1-12P-12G-M2  | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 2 Meter Length (Mates to ATHD06-1-12S)  | 12/12AWG | 30A |
|                                                                                  | ATHD04-1-12P-12G-M4  | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 4 Meter Length (Mates to ATHD06-1-12S)  | 12/12AWG | 30A |
|                                                                                  | ATHD04-1-12P-12G-M5  | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 5 Meter Length (Mates to ATHD06-1-12S)  | 12/12AWG | 30A |
|                                                                                  | ATHD04-1-12P-12G-M10 | 1 Position, Molded Receptacle, Pin, Size 12, Single-Ended Cable Assembly, 12AWG, ATHD™ Series, 10 Meter Length (Mates to ATHD06-1-12S) | 12/12AWG | 30A |

Related Items



## Heavy Duty, Thermoplastic, Power Connectors

Available in Single Position

Amphenol Sine Systems' **ATHD Series™** Heavy Duty Power Connectors provide an environmentally sealed connection system and solution to field splices and terminals in harsh environments. Safety features include an integral latch to prevent inadvertent disconnect and an audible, tactile, "click" provides circuit confirmation. Precision machined contact technology maximizes performance and durability while delivering up to 100A of power.

Available in **In-Line (Wire-to-Wire)**, **BoardLock™**, **PanelMate™** and **StructurePlus™** options.



**Potential Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural

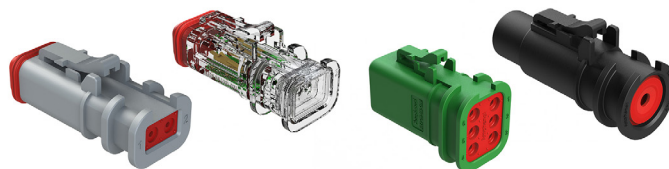


## Overmold Compatible Connectors for AT, AT LED, ATHD and ATP Series™ Connectors

Available in 1, 2, 3, 4, 6, 8 and 12 position

Amphenol Sine Systems' **StructurePlus™ Family** of overmold compatible connectors are an **engineered, one-piece, solid body construction and are specifically designed for cable assembly operations requiring custom molding or shrink tube requirements**. The added connector structure results in enhanced connection integrity that is an essential component for connecting cable in harsh environments.

**Potential Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy, Agricultural as well as other demanding interconnect applications



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

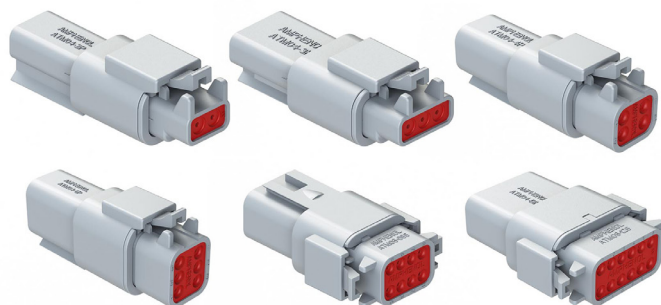
© 2022 Amphenol Sine Systems Corporation, 44274 Morley Drive, Clinton Township MI 48036 USA. [www.amphenol-sine.com](http://www.amphenol-sine.com). Customer Service +1 800 394 7732 Every effort has been made to ensure that the information contained in this document is accurate at the time of publication. Specifications or information stated in this document are subject to change without notice. 04/2022





# ATM ATM Series™

Heavy-Duty, Multi-Pin, 7.5A,  
Thermoplastic Connectors



Available in 2, 3, 4, 6, 8 and 12 positions

Amphenol Sine Systems' **ATM Series™** connectors are an IP67-rated (mated condition), high-performance, cost-effective solution specifically designed for smaller AWG applications, while still maintaining the strengths of the AT Series™ product line. All of our ATM Series™ connectors have been developed to be compatible with other existing standard products industry-wide.

The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. Connector housings are manufactured with a thermoplastic material that is not only durable, but has excellent UV resistance, dielectric/mechanical properties and environmentally RoHS compliant. The sealing system is comprised of an internal and rear silicone, multi-sealing perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection.

**Applications:** Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy, as well as other demanding interconnect applications

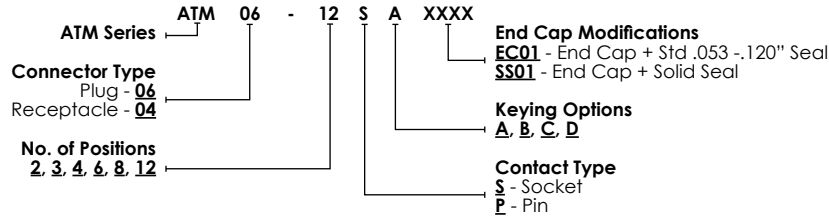
Available in an **ATMH Series™ - High Temperature** option which **features an increased operating temperature range of -55°C to 150°C**, ideal for "under the hood" applications, along with an IP68 (1M of water for a period of 24 hours, mated condition) & IP69K (in mated condition) rating. Also available in **BoardLock™ ATM** options, featuring flanged, 90° right angle or 180° straight, wire-to-board functionality, along with an IP67 rating (in mated condition).



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#### ATM Series™ - Part Numbering Sequence



#### ATM Series™ - Features & Benefits

|                              |                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Capacity             | Size 20, 7.5A                                                                                                                                                           |
| Wire Range                   | Size 20 contacts will accept wire ranges of 16 thru 22AWG                                                                                                               |
| Operating Temperature        | <b>-55°C to +125°C at rated current</b>                                                                                                                                 |
| IP Rating                    | IP67 (in mated condition)                                                                                                                                               |
| Dielectric Value             | Meets or exceeds 1500 volts minimum                                                                                                                                     |
| Drop Test                    | Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times                                                                          |
| Shock                        | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                                   |
| Vibration                    | Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)                 |
| Connector Terminal Retention | When subjected to a direct pull, contacts achieve a minimum pull-out force of 89 lbs.                                                                                   |
| Connector Retention          | A mated connector subjected to a pulling force by the exiting wire bundle at 89 lbs. times the number of contacts to a maximum of 356 lbs. applying load for 30 seconds |
| Thermal Shock                | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                               |
| Insulation Resistance        | Insulation resistance at 25°C shall be greater than 20 megohms when 1000 VDC are applied                                                                                |
| Mating Cycle Durability      | Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident                                             |
| Contact Millivolt Drop       | Size 20 contacts with 20AWG conductor - 60mV (solid contact) drop max; 100mV (stamped & formed contact) drop max at 7.5A test current                                   |

#### ATM Series™ - Product Material

|                 |                                            |
|-----------------|--------------------------------------------|
| Housings        | Thermoplastic                              |
| Seals           | Silicone Elastomer                         |
| Secondary Locks | Thermoplastic                              |
| Contacts        | Copper Alloy, Nickel Plated, Gold optional |

#### ATM Series™ - Contacts (For a complete contact list, see individual ATM Plug and Receptacle datasheets.)

| Part Number    | Description                            | Size  | AWG | Type             |
|----------------|----------------------------------------|-------|-----|------------------|
| AT62-201-2031  | Female Contact - Socket, Gold-plated   | 20-22 | 20  | Solid            |
| AT60-202-2031  | Male Contact - Pin, Gold-plated        | 20-22 | 20  | Solid            |
| AT62-201-20141 | Female Contact - Socket, Nickel-plated | 20-22 | 20  | Solid            |
| AT60-202-20141 | Male Contact - Pin, Nickel-plated      | 20-22 | 20  | Solid            |
| AT62-20-0144   | Female Contact - Socket, Gold-plated   | 16-22 | 20  | Stamped & Formed |
| AT60-20-0144   | Male Contact - Pin, Gold-plated        | 16-22 | 20  | Stamped & Formed |
| AT62-20-0122   | Female Contact - Socket, Nickel-plated | 16-22 | 20  | Stamped & Formed |
| AT60-20-0122   | Male Contact - Pin, Nickel-plated      | 16-22 | 20  | Stamped & Formed |



# ATMH Series™

## Heavy-Duty, Multi-Pin, 7.5A, High Temperature Thermoplastic Connectors



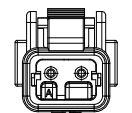
### Available in 2 position

Amphenol Sine Systems' **ATMH Series™** connectors, an extension of our ATM Series™, are an IP68/69K rated (mated condition), high-performance, cost-effective solution designed for smaller AWG applications, and ideally suited for "under the hood" applications where higher temperatures are required. While our ATM Series™ connectors have an Operating Temperature Range of -55°C to 125°C, **our ATMH Series™ has an increased operating temperature range of -55°C to 150°C.** All of our ATMH Series™ connectors have been developed to be compatible with other existing standard products industry-wide.

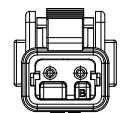
**Applications:** Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy, as well as other demanding interconnect applications

**ATMH Series™** plugs and receptacles both arrive with an integrated, "unseated", **Terminal Position Assurance (TPA) Lock.** Once the contacts have been installed by the user, the TPA's can then be fully "seated" for proper use. The TPA's are color-coded for their respective keying position: **Keyed A-Grey, Keyed B-Black, Keyed C-Green, and Keyed D-Brown.**

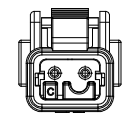
ATMH Series™ Keying Options (Plug TPAs are shown "seated". Receptacle TPAs are hidden from view.)



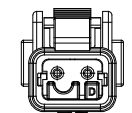
Keyed A Plug  
ATMH06-2SA  
TPA Color: Grey



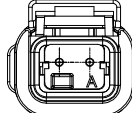
Keyed B Plug  
ATMH06-2SB  
TPA Color: Black



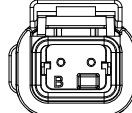
Keyed C Plug  
ATMH06-2SC  
TPA Color: Green



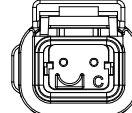
Keyed D Plug  
ATMH06-2SD  
TPA Color: Brown



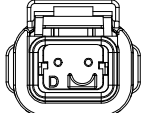
Keyed A Recept  
ATMH04-2PA  
TPA Color: Grey



Keyed B Recept  
ATMH04-2PB  
TPA Color: Black



Keyed C Recept  
ATMH04-2PC  
TPA Color: Green



Keyed D Recept  
ATMH04-2PD  
TPA Color: Brown

**Important:** ATMH Series™ plugs and receptacles are capable of mating with ATM Series™ plugs and receptacles, but will only retain the lower ATM Series™ operating temperature range of -55°C to +125°C when mixed.

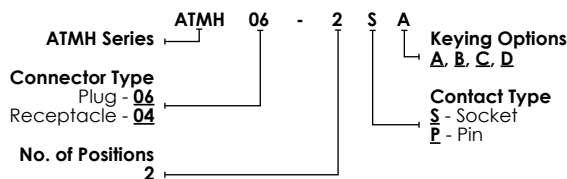


A **ASeries™** Family



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#### ATMH Series™ - Part Numbering Sequence



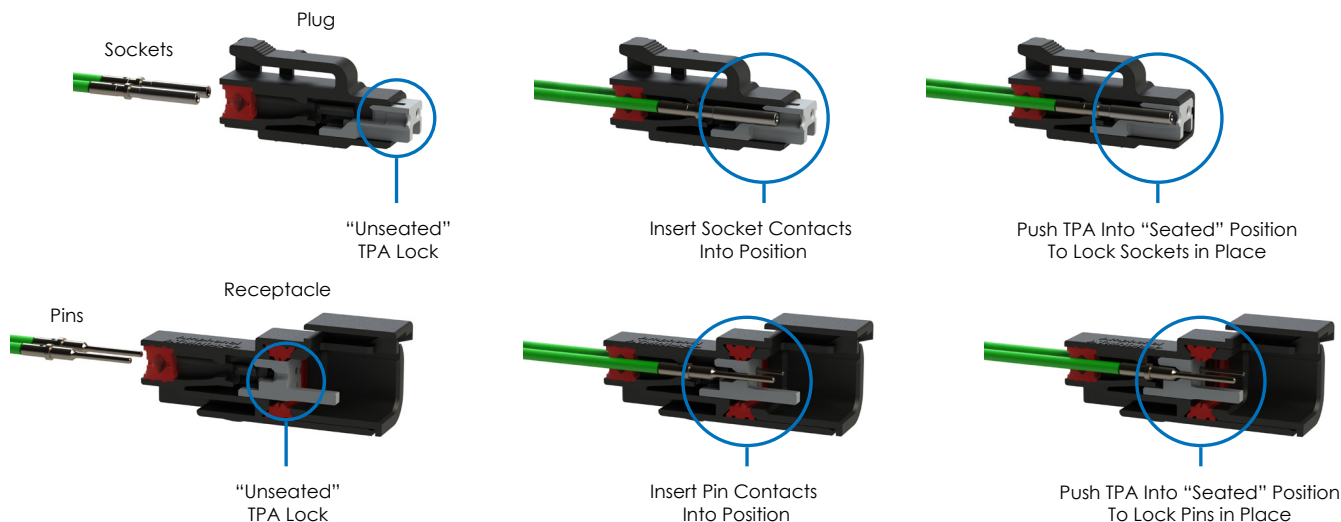
#### ATMH Series™ - Features & Benefits

|                              |                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Capacity             | Size 20, 7.5A                                                                                                                                                           |
| Wire Range                   | Size 20 contacts will accept wire ranges of 16-22AWG                                                                                                                    |
| Operating Temperature        | <b>-55°C to +150°C at rated current</b>                                                                                                                                 |
| IP Rating                    | IP68 (1M of water for a period of 24 hours, mated condition) & IP69k (in mated condition)                                                                               |
| Dielectric Value             | Meets or exceeds 1500 volts minimum                                                                                                                                     |
| Drop Test                    | Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times                                                                          |
| Shock                        | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                                   |
| Vibration                    | Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)                 |
| Connector Terminal Retention | When subjected to a direct pull, contacts achieve a minimum pull-out force of 89 lbs.                                                                                   |
| Connector Retention          | A mated connector subjected to a pulling force by the exiting wire bundle at 89 lbs. times the number of contacts to a maximum of 356 lbs. applying load for 30 seconds |
| Thermal Shock                | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                               |
| Insulation Resistance        | Insulation resistance at 25°C shall be greater than 20 megohms when 1000 VDC are applied                                                                                |
| Mating Cycle Durability      | Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident                                             |
| Contact Millivolt Drop       | Size 20 contacts with 20AWG conductor - 60mV (solid contact) drop max; 100mV (stamped & formed contact) drop max at 7.5A test current                                   |

#### ATMH Series™ - Product Material

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| Housings                         | Thermoplastic                              |
| Seals                            | Silicone Elastomer                         |
| Terminal Position Assurance Lock | Thermoplastic                              |
| Contacts                         | Copper Alloy, Nickel Plated, Gold optional |

#### ATMH Series™ - How to Install Contacts with Terminal Position Assurance (TPA) Locks



## 2 Position - ATMH™ Series Plugs

| Image                                                                             | Part Number | Description                                                                                                                                                               | Size | Amp  |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
|  | ATMH06-2SA  | 2 Position, Plug, Socket, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Grey), Keyed A, Standard Diameter Rear Seal (Red), Black Body  | 20   | 7.5A |
|  | ATMH06-2SB  | 2 Position, Plug, Socket, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Black), Keyed B, Standard Diameter Rear Seal (Red), Black Body | 20   | 7.5A |
|  | ATMH06-2SC  | 2 Position, Plug, Socket, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Green), Keyed C, Standard Diameter Rear Seal (Red), Black Body | 20   | 7.5A |
|  | ATMH06-2SD  | 2 Position, Plug, Socket, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Brown), Keyed D, Standard Diameter Rear Seal (Red), Black Body | 20   | 7.5A |

## 2 Position - ATMH Series™ Receptacles

|                                                                                     |            |                                                                                                                                                                              |    |      |
|-------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
|    | ATMH04-2PA | 2 Position, Receptacle, Pin, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Grey), Keyed A, Standard Diameter Rear Seal (Red), Black Body  | 20 | 7.5A |
|    | ATMH04-2PB | 2 Position, Receptacle, Pin, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Black), Keyed B, Standard Diameter Rear Seal (Red), Black Body | 20 | 7.5A |
|  | ATMH04-2PC | 2 Position, Receptacle, Pin, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Green), Keyed C, Standard Diameter Rear Seal (Red), Black Body | 20 | 7.5A |
|  | ATMH04-2PD | 2 Position, Receptacle, Pin, ATMH Series™, High Temperature (+150°C), (TPA) Terminal Position Assurance Lock (Brown), Keyed D, Standard Diameter Rear Seal (Red), Black Body | 20 | 7.5A |

## ATMH Series™ - Contacts (For a complete contact list, see individual ATMH Series™ Plug and Receptacle datasheets.)

| Part Number    | Description                            | Size  | AWG | Type             |
|----------------|----------------------------------------|-------|-----|------------------|
| AT62-201-2031  | Female Contact - Socket, Gold-plated   | 20-22 | 20  | Solid            |
| AT60-202-2031  | Male Contact - Pin, Gold-plated        | 20-22 | 20  | Solid            |
| AT62-201-20141 | Female Contact - Socket, Nickel-plated | 20-22 | 20  | Solid            |
| AT60-202-20141 | Male Contact - Pin, Nickel-plated      | 20-22 | 20  | Solid            |
| AT62-20-0144   | Female Contact - Socket, Gold-plated   | 16-22 | 20  | Stamped & Formed |
| AT60-20-0144   | Male Contact - Pin, Gold-plated        | 16-22 | 20  | Stamped & Formed |
| AT62-20-0122   | Female Contact - Socket, Nickel-plated | 16-22 | 20  | Stamped & Formed |
| AT60-20-0122   | Male Contact - Pin, Nickel-plated      | 16-22 | 20  | Stamped & Formed |

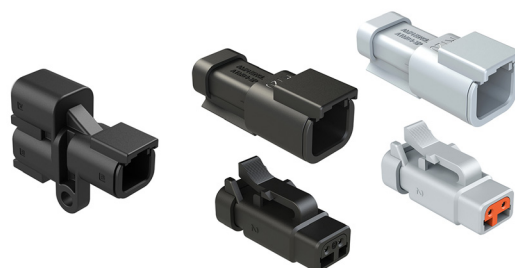
**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# ATM Series™ 2-Wire CAN

## J1939/15 2-Wire CAN Connectors



Amphenol Sine Systems' **ATM Series™ 2-Wire CAN System** is offered in accordance with SAE J1939/15 requirements and can provide low amperage power splits. The "Y-Splitter" has three connection points and is used in conjunction with a standard ATM2S connector with specialized keyways identifying Inlet 1 and Outlet 2, and 2 position keyed plugs/receptacles with end caps and molded-in 120Ω resistors for network terminations.

**Applications:** Heavy Equipment, Agriculture, Construction, Transportation, Off-Road, Mining, Industrial, Railway, Automotive, Diagnostics, Marine, Water Resistance, Harsh Environments



### Technical Specifications

|                        |                            |
|------------------------|----------------------------|
| Temperature Range      | -55°C - +125°C             |
| Max. Current (AMP)     | 7.5A                       |
| Voltage Rating (AC/DC) | 250V                       |
| Contact Resistance     | < 15mΩ                     |
| Contacts               | Copper Alloy, Gold Plating |
| Contact Size           | 20                         |

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Min. Mating Cycles              | > 100                                     |
| IP Rating                       | IP67 in mated condition                   |
| Wire Range                      | 20-22AWG                                  |
| Housing Body                    | Thermoplastic                             |
| Insulation Resistance           | 1000 megohms at 25°C                      |
| Dielectric Withstanding Voltage | Less than 2 mA current leakage @ 1500V AC |

| Part Number      | Description                                                                                 | Amperage | Voltage | AWG   |
|------------------|---------------------------------------------------------------------------------------------|----------|---------|-------|
| ATM04-2P-P007    | ATM, 6 Position, 2 Position Receptacle, Y Splitter (Contacts & Wedgelock Included)          | 7.5A     | 250     | 20-22 |
| ATM04-2P-RA120GY | ATM, 2 Position, Receptacle, A Key, 120 OHM Resistor, Gray (Contacts & Wedgelock Included)  | 7.5A     | 250     | 20-22 |
| ATM04-2P-RB120BK | ATM, 2 Position, Receptacle, B Key, 120 OHM Resistor, Black (Contacts & Wedgelock Included) | 7.5A     | 250     | 20-22 |
| ATM06-2S-R120GRY | ATM, 2 Position, Plug, A Key, 120 OHM, 1/2W, Gray, Endcap (Contacts & Wedgelock Included)   | 7.5A     | 250     | 20-22 |
| ATM06-2S-RB120BK | ATM, 2 Position, Plug, B Key, 120 OHM Resistor, Black (Contacts & Wedgelock Included)       | 7.5A     | 250     | 20-22 |
| AWM-2PA          | ATM, 2 Position Pin Wedgelock, A Keyed                                                      | NA       | NA      | NA    |
| AWM-2PB          | ATM, 2 Position Pin Wedgelock, B Keyed                                                      | NA       | NA      | NA    |
| AWM-2SA          | ATM, 2 Position Socket Wedgelock, A Keyed                                                   | NA       | NA      | NA    |
| AWM-2SB          | ATM, 2 Position Socket Wedgelock, B Keyed                                                   | NA       | NA      | NA    |



**A Series™ Family**



Standard products. Custom solutions  
Customer Service +1 800 394 7732

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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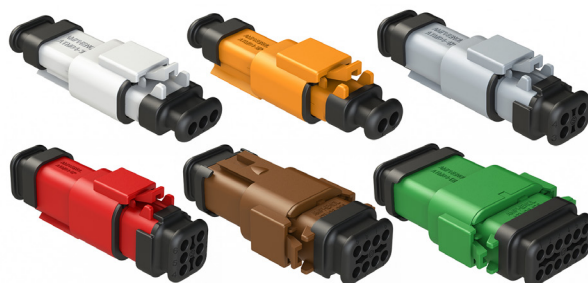


# ATM ATM Series™ SR01

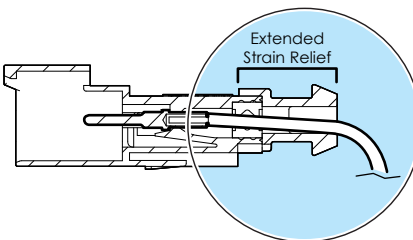
## Extended Strain Relief Series

Available in 2, 3, 4, 6, 8 and 12 position

Amphenol Sine Systems' **ATM Series™ SR01** connectors are a high-performance, thermoplastic, cost-effective solution with specifically-designed, wire cavities that protect each individual wire seal, eliminating stress on the rear seal while maintaining an IP68/69K rated (mated) performance regardless of wire bundle direction or improper installation. **The ATM Series™ SR01 meets all the performance criteria and specifications of the ATM Series™**, is available in a wide variety of custom colors, and accepts all **A Series™** Size 20 contacts. Required wedgelock sold separately.



**PROTECTS** each wire cavity to maximize sealing integrity.



**MAINTAINS** proper wire routing 100% of the time.



Standard Diameter Rear Seals (Red) -  
1.35mm (.053") - 3.05mm (.120")

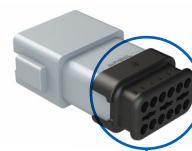
**Applications:** Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy, as well as other demanding interconnect applications

### Key Features

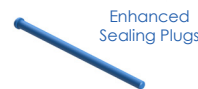
- Heat-shrink capable shroud for applications requiring heat shrink (The use of heat shrink is NOT required to meet existing IP standards)
- Enhanced Sealing Plugs for simplified insertion/removal, improved retention capabilities and include a positive 'stop' for full insertion verification
- Thermoplastic housing with excellent UV resistance
- Wedgelocks ensure proper contact alignment & retention
- Integrated latch for mating ensures a secure connection
- Superior front and rear environmental sealing
- Compatible with existing standard products industry-wide



Standard vs SR01



Heat-Shrink Capable Shroud



Enhanced Sealing Plugs



Standard products. Custom solutions  
Customer Service +1 800 394 7732

#### Specifications

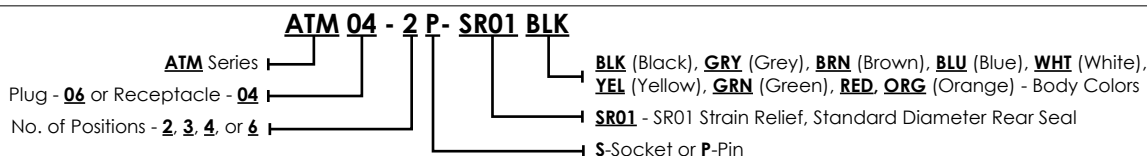
|                                 |                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Operating Temperature           | -55°C to +125°C                                                                                                       |
| Max Current Rating (Amp)        | 7.5A                                                                                                                  |
| Mating Cycles                   | >100                                                                                                                  |
| IP Rating                       | IP68/69K (in mated condition)                                                                                         |
| Wire Range                      | Size 20, 16-22AWG                                                                                                     |
| Contacts                        | Machined; Stamped & Formed;<br>Copper Alloy, Nickel-Plated<br>Gold plating optional                                   |
| Housing/Latch Material          | Thermoplastic/Integrated latch for mating                                                                             |
| Sealing Material                | Silicone Rubber                                                                                                       |
| Dielectric Withstanding Voltage | Less than 2 mA current leakage @ 1500V AC                                                                             |
| Insulation Resistance           | 1000 megohms minimum at 25°C                                                                                          |
| Shock                           | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z) |

|                              |                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vibration                    | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz)                 |
| Connector Terminal Retention | When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.                                                                                   |
| Connector Retention          | A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds |
| Thermal Shock                | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                               |

#### Custom Color Options

|       |      |       |      |       |        |       |     |        |
|-------|------|-------|------|-------|--------|-------|-----|--------|
| Black | Grey | Brown | Blue | White | Yellow | Green | Red | Orange |
|-------|------|-------|------|-------|--------|-------|-----|--------|

#### Part Numbering Sequence (2, 3, 4 and 6 position)



#### Part Numbering Sequence (08 and 12 position)



#### 2 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

| Image                                                                              | Part Number     | Description                                                                                                                                        | Size | Amp  |
|------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
|  | ATM06-2S-SR01BK | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-2S. Keyed Options Available.)  | 20   | 7.5A |
|                                                                                    | ATM06-2S-SR01BL | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-2S. Keyed Options Available.)   | 20   | 7.5A |
|                                                                                    | ATM06-2S-SR01BN | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-2S. Keyed Options Available.)  | 20   | 7.5A |
|                                                                                    | ATM06-2S-SR01GN | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-2S. Keyed Options Available.)  | 20   | 7.5A |
|                                                                                    | ATM06-2S-SR01GY | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-2S. Keyed Options Available.)   | 20   | 7.5A |
|                                                                                    | ATM06-2S-SR01OR | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-2S. Keyed Options Available.) | 20   | 7.5A |
|                                                                                    | ATM06-2S-SR01RD | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-2S. Keyed Options Available.)    | 20   | 7.5A |
|                                                                                    | ATM06-2S-SR01WT | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-2S. Keyed Options Available.)  | 20   | 7.5A |
|                                                                                    | ATM06-2S-SR01YL | 2 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-2S. Keyed Options Available.) | 20   | 7.5A |

## 2 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                             | Part Number | Description                                | Size | Amp |
|-----------------------------------------------------------------------------------|-------------|--------------------------------------------|------|-----|
|  | AWM-2S      | 2 Position, Plug Wedgelock, Orange         | -    | -   |
|  | AWM-2SA     | 2 Position, Plug Wedgelock, Keyed A, Grey  | -    | -   |
|  | AWM-2SB     | 2 Position, Plug Wedgelock, Keyed B, Black | -    | -   |

## 3 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                     |                 |                                                                                                                           |    |      |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|----|------|
|     | ATM06-3S-SR01BK | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-3S.)  | 20 | 7.5A |
|                                                                                     | ATM06-3S-SR01BL | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-3S.)   | 20 | 7.5A |
|                                                                                     | ATM06-3S-SR01BN | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-3S.)  | 20 | 7.5A |
|                                                                                     | ATM06-3S-SR01GN | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-3S.)  | 20 | 7.5A |
|                                                                                     | ATM06-3S-SR01GY | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-3S.)   | 20 | 7.5A |
|                                                                                     | ATM06-3S-SR01OR | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-3S.) | 20 | 7.5A |
|                                                                                     | ATM06-3S-SR01RD | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-3S.)    | 20 | 7.5A |
|                                                                                     | ATM06-3S-SR01WT | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-3S.)  | 20 | 7.5A |
|                                                                                     | ATM06-3S-SR01YL | 3 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-3S.) | 20 | 7.5A |
|  | AWM-3S          | 3 Position, Plug Wedgelock, Orange                                                                                        | -  | -    |

## 4 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                     |                 |                                                                                                                           |    |      |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|----|------|
|   | ATM06-4S-SR01BK | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-4S.)  | 20 | 7.5A |
|                                                                                     | ATM06-4S-SR01BL | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-4S.)   | 20 | 7.5A |
|                                                                                     | ATM06-4S-SR01BN | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-4S.)  | 20 | 7.5A |
|                                                                                     | ATM06-4S-SR01GN | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-4S.)  | 20 | 7.5A |
|                                                                                     | ATM06-4S-SR01GY | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-4S.)   | 20 | 7.5A |
|                                                                                     | ATM06-4S-SR01OR | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-4S.) | 20 | 7.5A |
|                                                                                     | ATM06-4S-SR01RD | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-4S.)    | 20 | 7.5A |
|                                                                                     | ATM06-4S-SR01WT | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-4S.)  | 20 | 7.5A |
|                                                                                     | ATM06-4S-SR01YL | 4 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-4S.) | 20 | 7.5A |
|  | AWM-4S          | 4 Position, Plug Wedgelock, Orange                                                                                        | -  | -    |

## 6 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

| Image                                                                             | Part Number     | Description                                                                                                               | Size | Amp  |
|-----------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|------|------|
|  | ATM06-6S-SR01BK | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-6S.)  | 20   | 7.5A |
|                                                                                   | ATM06-6S-SR01BL | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-6S.)   | 20   | 7.5A |
|                                                                                   | ATM06-6S-SR01BN | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-6S.)  | 20   | 7.5A |
|                                                                                   | ATM06-6S-SR01GN | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-6S.)  | 20   | 7.5A |
|                                                                                   | ATM06-6S-SR01GY | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-6S.)   | 20   | 7.5A |
|                                                                                   | ATM06-6S-SR01OR | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-6S.) | 20   | 7.5A |
|                                                                                   | ATM06-6S-SR01RD | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-6S.)    | 20   | 7.5A |
|                                                                                   | ATM06-6S-SR01WT | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-6S.)  | 20   | 7.5A |
|                                                                                   | ATM06-6S-SR01YL | 6 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-6S.) | 20   | 7.5A |
|  | AWM-6S          | 6 Position, Plug Wedgelock, Orange                                                                                        | -    | -    |

## 8 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                     |                  |                                                                                                                                   |    |      |
|-------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------|----|------|
|   | ATM06-08SA-SR1GY | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Grey Body (Requires Wedgelock AWM-8S.)  | 20 | 7.5A |
|                                                                                     | ATM06-08SB-SR1BK | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed B, Black Body (Requires Wedgelock AWM-8S.) | 20 | 7.5A |
|                                                                                     | ATM06-08SC-SR1GN | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed C, Green Body (Requires Wedgelock AWM-8S.) | 20 | 7.5A |
|                                                                                     | ATM06-08SD-SR1BN | 8 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed D, Brown Body (Requires Wedgelock AWM-8S.) | 20 | 7.5A |
|  | AWM-8S           | 8 Position, Plug Wedgelock, Orange                                                                                                | -  | -    |

## 12 Position - ATM Series™ SR01 Plugs and Wedgelocks (Plug shown in Standard Grey w Black Strain Relief)

|                                                                                     |                  |                                                                                                                                     |    |      |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|----|------|
|   | ATM06-12SA-SR1GY | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Grey Body (Requires Wedgelock AWM-12S.)  | 20 | 7.5A |
|                                                                                     | ATM06-12SB-SR1BK | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Black Body (Requires Wedgelock AWM-12S.) | 20 | 7.5A |
|                                                                                     | ATM06-12SC-SR1GN | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Green Body (Requires Wedgelock AWM-12S.) | 20 | 7.5A |
|                                                                                     | ATM06-12SD-SR1BN | 12 Position, Plug, Socket, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Brown Body (Requires Wedgelock AWM-12S.) | 20 | 7.5A |
|  | AWM-12S          | 12 Position, Plug Wedgelock, Orange                                                                                                 | -  | -    |

## 2 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

| Image                                                                              | Part Number     | Description                                                                                                                                           | Size | Amp  |
|------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
|    | ATM04-2P-SR01BK | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-2P. Keyed Options Available.)  | 20   | 7.5A |
|                                                                                    | ATM04-2P-SR01BL | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-2P. Keyed Options Available.)   | 20   | 7.5A |
|                                                                                    | ATM04-2P-SR01BN | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-2P. Keyed Options Available.)  | 20   | 7.5A |
|                                                                                    | ATM04-2P-SR01GN | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-2P. Keyed Options Available.)  | 20   | 7.5A |
|                                                                                    | ATM04-2P-SR01GY | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-2P. Keyed Options Available.)   | 20   | 7.5A |
|                                                                                    | ATM04-2P-SR01OR | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-2P. Keyed Options Available.) | 20   | 7.5A |
|                                                                                    | ATM04-2P-SR01RD | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-2P. Keyed Options Available.)    | 20   | 7.5A |
|                                                                                    | ATM04-2P-SR01WT | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-2P. Keyed Options Available.)  | 20   | 7.5A |
|                                                                                    | ATM04-2P-SR01YL | 2 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-2P. Keyed Options Available.) | 20   | 7.5A |
|   | AWM-2P          | 2 Position, Receptacle Wedgelock, Orange                                                                                                              | -    | -    |
|   | AWM-2PA         | 2 Position, Receptacle Wedgelock, Keyed A, Grey                                                                                                       | -    | -    |
|  | AWM-2PB         | 2 Position, Receptacle Wedgelock, Keyed B, Black                                                                                                      | -    | -    |

## 3 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                     |                 |                                                                                                                              |    |      |
|-------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------|----|------|
|   | ATM04-3P-SR01BK | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-3P.)  | 20 | 7.5A |
|                                                                                     | ATM04-3P-SR01BL | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-3P.)   | 20 | 7.5A |
|                                                                                     | ATM04-3P-SR01BN | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-3P.)  | 20 | 7.5A |
|                                                                                     | ATM04-3P-SR01GN | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-3P.)  | 20 | 7.5A |
|                                                                                     | ATM04-3P-SR01GY | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-3P.)   | 20 | 7.5A |
|                                                                                     | ATM04-3P-SR01OR | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-3P.)  | 20 | 7.5A |
|                                                                                     | ATM04-3P-SR01RD | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-3P.)    | 20 | 7.5A |
|                                                                                     | ATM04-3P-SR01WT | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-3P.)  | 20 | 7.5A |
|                                                                                     | ATM04-3P-SR01YL | 3 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-3P.) | 20 | 7.5A |
|  | AWM-3P          | 3 Position, Receptacle Wedgelock, Orange                                                                                     | -  | -    |



## 4 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

| Image                                                                             | Part Number     | Description                                                                                                                  | Size | Amp  |
|-----------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------|------|------|
|   | ATM04-4P-SR01BK | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-4P.)  | 20   | 7.5A |
|                                                                                   | ATM04-4P-SR01BL | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-4P.)   | 20   | 7.5A |
|                                                                                   | ATM04-4P-SR01BN | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-4P.)  | 20   | 7.5A |
|                                                                                   | ATM04-4P-SR01GN | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-4P.)  | 20   | 7.5A |
|                                                                                   | ATM04-4P-SR01GY | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-4P.)   | 20   | 7.5A |
|                                                                                   | ATM04-4P-SR01OR | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-4P.) | 20   | 7.5A |
|                                                                                   | ATM04-4P-SR01RD | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-4P.)    | 20   | 7.5A |
|                                                                                   | ATM04-4P-SR01WT | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-4P.)  | 20   | 7.5A |
|                                                                                   | ATM04-4P-SR01YL | 4 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-4P.) | 20   | 7.5A |
|  | AWM-4P          | 4 Position, Receptacle Wedgelock, Orange                                                                                     | -    | -    |

## 6 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                     |                 |                                                                                                                              |    |      |
|-------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------|----|------|
|   | ATM04-6P-SR01BK | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWM-6P.)  | 20 | 7.5A |
|                                                                                     | ATM04-6P-SR01BL | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Blue Body (Requires Wedgelock AWM-6P.)   | 20 | 7.5A |
|                                                                                     | ATM04-6P-SR01BN | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Brown Body (Requires Wedgelock AWM-6P.)  | 20 | 7.5A |
|                                                                                     | ATM04-6P-SR01GN | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Green Body (Requires Wedgelock AWM-6P.)  | 20 | 7.5A |
|                                                                                     | ATM04-6P-SR01GY | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWM-6P.)   | 20 | 7.5A |
|                                                                                     | ATM04-6P-SR01OR | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Orange Body (Requires Wedgelock AWM-6P.) | 20 | 7.5A |
|                                                                                     | ATM04-6P-SR01RD | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Red Body (Requires Wedgelock AWM-6P.)    | 20 | 7.5A |
|                                                                                     | ATM04-6P-SR01WT | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, White Body (Requires Wedgelock AWM-6P.)  | 20 | 7.5A |
|                                                                                     | ATM04-6P-SR01YL | 6 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Yellow Body (Requires Wedgelock AWM-6P.) | 20 | 7.5A |
|  | AWM-6P          | 6 Position, Receptacle Wedgelock, Orange                                                                                     | -  | -    |

## 8 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                    |                  |                                                                                                                                      |    |      |
|------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------|----|------|
|  | ATM04-08PA-SR1GY | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Grey Body (Requires Wedgelock AWM-8P.)  | 20 | 7.5A |
|                                                                                    | ATM04-08PB-SR1BK | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed B, Black Body (Requires Wedgelock AWM-8P.) | 20 | 7.5A |
|                                                                                    | ATM04-08PC-SR1GN | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed C, Green Body (Requires Wedgelock AWM-8P.) | 20 | 7.5A |
|                                                                                    | ATM04-08PD-SR1BN | 8 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed D, Brown body (Requires Wedgelock AWM-8P.) | 20 | 7.5A |

## 8 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief), cont.

| Image                                                                             | Part Number | Description                              | Size | Amp |
|-----------------------------------------------------------------------------------|-------------|------------------------------------------|------|-----|
|  | AWM-8P      | 8 Position, Receptacle Wedgelock, Orange | -    | -   |

## 12 Position - ATM Series™ SR01 Receptacles and Wedgelocks (Receptacle shown in Standard Grey w Black Strain Relief)

|                                                                                   |                  |                                                                                                                                        |    |      |
|-----------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------|----|------|
|   | ATM04-12PA-SR1GY | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed A, Grey Body (Requires Wedgelock AWM-12P.)  | 20 | 7.5A |
|                                                                                   | ATM04-12PB-SR1BK | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed B, Black Body (Requires Wedgelock AWM-12P.) | 20 | 7.5A |
|                                                                                   | ATM04-12PC-SR1GN | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed C, Green Body (Requires Wedgelock AWM-12P.) | 20 | 7.5A |
|                                                                                   | ATM04-12PD-SR1BN | 12 Position, Receptacle, Pin, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Keyed D, Brown body (Requires Wedgelock AWM-12P.) | 20 | 7.5A |
|  | AWM-12P          | 12 Position, Receptacle Wedgelock, Orange                                                                                              | -  | -    |

## ATM Series™ SR01 Accessories

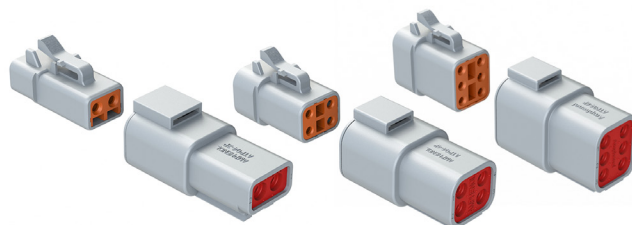
|                                                                                   |                   |                                                             |    |   |
|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------|----|---|
|  | ATM13-217-2005-SR | Blank Locking Sealing Plug, Blue, Replaces Size 20 Contacts | 20 | - |
|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------|----|---|

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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**ATP Series™**



## Heavy-Duty, Multi-Pin, 25A Thermoplastic Connectors

Available in 2, 4 and 6 Position

Amphenol Sine Systems **ATP Series™ Connectors** are designed as a high-performance, cost-effective, thermoplastic solution with superior environmental seals, seal retention capabilities and are designed for use with 10-14AWG with Size 12 contacts handling up to 25A. All of our ATP Series™ connectors have been developed to be completely compatible with all other existing standard products industry-wide. Available in **BoardLock™**, **HYPERBUSS™**, **PanelMate™**, **StructurePlus™** and **SR01/02** options.



**Applications:** Marine, Heavy Equipment, Agricultural, Automotive, Alternative Energy and other demanding interconnect applications

### Technical Specifications

|                       |                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature | -55°C to +125°C                                                                                                                                         |
| Max Amperage          | 25A                                                                                                                                                     |
| Housing/Wedge Body    | Thermoplastic                                                                                                                                           |
| Seals                 | Silicone Elastomer                                                                                                                                      |
| Wire Range (AWG)      | 10-14AWG                                                                                                                                                |
| Contacts              | Copper Alloy, Nickel-Plated (Gold or Tin Optional)                                                                                                      |
| Current Rating        | Size 12 contacts rated at 25A continuous at +125°C. Current is fully rated without derating curve.                                                      |
| IP Rating             | IP68 (1M of water for 24 hours)                                                                                                                         |
| Vibration             | Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz) |
| Dielectric Value      | Current leak less than 2 milliamps at 1500 VAC                                                                                                          |
| Corrosion Resistance  | No evidence of corrosion after 48 hours of salt spray per MIL-STD1344, method 1001.                                                                     |
| Fluid Resistance      | Connectors show no damage when exposed to most fluids used in industrial application.                                                                   |

|                        |                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Insulation Resistance  | 1000 megohms minimum 25°C                                                                                                                                                                                                     |
| Contact Retention      | 70lbs. for Size 12 contacts                                                                                                                                                                                                   |
| Thermal Cycle          | No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.                                                                                                                                                   |
| Physical Shock         | No unlocking, unmating or other unsatisfactory results during or after 50 G's in each of three usually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202. Method 213, Condition "C". |
| Contact Millivolt Drop | Size 12 contacts with 12AWG conductor - 60mV (solid contact) drop max; 100mV (stamped & formed contact) drop max at 25A test current                                                                                          |
| Vibration              | Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.                                                                                                            |
| Mating Cycles          | No electrical or mechanical defects after 100 cycles of engagement and disengagement.                                                                                                                                         |



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## 2 Position - ATP Series™ Plugs and Wedgelocks

| Image                                                                               | Part Number      | Description                                                                                                                                         | Size | Amp |
|-------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | ATP06-2S         | 2 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-2S. Keyed Options Available.)           | 12   | 25A |
|    | ATP06-2S-BLK     | 2 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-2S. Keyed Options Available.)          | 12   | 25A |
|    | ATP06-2S-EC01    | 2 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-2S. Keyed Options Available.)  | 12   | 25A |
|    | ATP06-2S-EC01BLK | 2 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-2S. Keyed Options Available.) | 12   | 25A |
|    | ATP06-2S-MM01    | 2 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Endcap, Grey Body (Requires Wedgelock AWP-2S. Keyed Options Available.)  | 12   | 25A |
|    | ATP06-2S-MM01BLK | 2 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Endcap, Black Body (Requires Wedgelock AWP-2S. Keyed Options Available.) | 12   | 25A |
|   | ATP06-2S-RD01    | 2 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-2S. Keyed Options Available.)          | 12   | 25A |
|  | ATP06-2S-RD01BK  | 2 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-2S. Keyed Options Available.)         | 12   | 25A |
|  | AWP-2S           | 2 Position, Plug Wedgelock, ATP Series™, Standard Orange                                                                                            | -    | -   |
|  | AWP-2SA          | 2 Position, Plug Wedgelock, ATP Series™, Keyed A, Grey                                                                                              | -    | -   |
|  | AWP-2SB          | 2 Position, Plug Wedgelock, ATP Series™, Keyed B, Black                                                                                             | -    | -   |
|  | AWP-2SC          | 2 Position, Plug Wedgelock, ATP Series™, Keyed C, Green                                                                                             | -    | -   |
|  | AWP-2SD          | 2 Position, Plug Wedgelock, ATP Series™, Keyed D, Brown                                                                                             | -    | -   |

## 2 Position - ATP Series™ Receptacles and Wedgelocks

|                                                                                     |                  |                                                                                                                                                        |    |     |
|-------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-2P         | 2 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)           | 12 | 25A |
|  | ATP04-2P-BLK     | 2 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.)          | 12 | 25A |
|  | ATP04-2P-EC01    | 2 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)  | 12 | 25A |
|  | ATP04-2P-EC01BLK | 2 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.) | 12 | 25A |

## 2 Position - ATP Series™ Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number      | Description                                                                                                                                            | Size | Amp |
|-----------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP04-2P-MM01    | 2 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), Endcap, Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)  | 12   | 25A |
|  | ATP04-2P-MM01BLK | 2 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), Endcap, Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.) | 12   | 25A |
|  | ATP04-2P-RD01    | 2 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)          | 12   | 25A |
|  | ATP04-2P-RD01BLK | 2 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.)         | 12   | 25A |
|  | AWP-2P           | 2 Position, Receptacle Wedgelock, ATP Series™, Standard Orange                                                                                         | -    | -   |
|  | AWP-2PA          | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed A, Grey                                                                                           | -    | -   |
|  | AWP-2PB          | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed B, Black                                                                                          | -    | -   |
|  | AWP-2PC          | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed C, Green                                                                                          | -    | -   |
|  | AWP-2PD          | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed D, Brown                                                                                          | -    | -   |

## 2 Position - ATP Series™ Plugs and Wedgelocks (with SR01/SR02 Strain Relief)

|                                                                                     |                 |                                                                                                                                                                 |    |     |
|-------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP06-2S-SR01   | 2 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWP-2S. Keyed Options Available.)   | 12 | 25A |
|  | ATP06-2S-SR01BK | 2 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWP-2S. Keyed Options Available.)  | 12 | 25A |
|  | ATP06-2S-SR02   | 2 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AWP-2S. Keyed Options Available.)  | 12 | 25A |
|  | ATP06-2S-SR02BK | 2 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AWP-2S. Keyed Options Available.) | 12 | 25A |
|  | AWP-2S          | 2 Position, Plug Wedgelock, ATP Series™, Standard Orange                                                                                                        | -  | -   |
|  | AWP-2SA         | 2 Position, Plug Wedgelock, ATP Series™, Keyed A, Grey                                                                                                          | -  | -   |
|  | AWP-2SB         | 2 Position, Plug Wedgelock, ATP Series™, Keyed B, Black                                                                                                         | -  | -   |
|  | AWP-2SC         | 2 Position, Plug Wedgelock, ATP Series™, Keyed C, Green                                                                                                         | -  | -   |
|  | AWP-2SD         | 2 Position, Plug Wedgelock, ATP Series™, Keyed D, Brown                                                                                                         | -  | -   |

## 2 Position - ATP Series™ Receptacles and Wedgelocks (with SR01/SR02 Strain Relief)

|                                                                                     |                 |                                                                                                                                                                   |    |     |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-2P-SR01   | 2 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)  | 12 | 25A |
|  | ATP04-2P-SR01BK | 2 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.) | 12 | 25A |



## 2 Position - ATP Series™ Receptacles and Wedgelocks (with SR01/SR02 Strain Relief)

| Image                                                                             | Part Number     | Description                                                                                                                                                        | Size | Amp |
|-----------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP04-2P-SR02   | 2 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)  | 12   | 25A |
|  | ATP04-2P-SR02BK | 2 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.) | 12   | 25A |
|  | AWP-2P          | 2 Position, Receptacle Wedgelock, ATP Series™, Standard Orange                                                                                                     | -    | -   |
|  | AWP-2PA         | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed A, Grey                                                                                                       | -    | -   |
|  | AWP-2PB         | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed B, Black                                                                                                      | -    | -   |
|  | AWP-2PC         | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed C, Green                                                                                                      | -    | -   |
|  | AWP-2PD         | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed D, Brown                                                                                                      | -    | -   |

## 2 Position - BoardLock™ ATP Series Receptacles

|                                                                                     |               |                                                                                                                                      |    |     |
|-------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | ATP04-2P-BM01 | 2 Position, Straight PCB Receptacle, Pin, Gold, BoardLock™ ATP, Snap-Fit, No Potting, Black Body (No Add'l Wedgelock Required)       | 12 | 25A |
|                                                                                     | ATP04-2P-BM02 | 2 Position, Straight PCB Receptacle, Pin, Gold, BoardLock™ ATP, Snap-Fit, Potting, Black Body (No Add'l Wedgelock Required)          | 12 | 25A |
|                                                                                     | ATP04-2P-BM03 | 2 Position, Straight PCB Receptacle, Pin, Tin, BoardLock™ ATP, Snap-Fit, No Potting, Black Body (No Add'l Wedgelock Required)        | 12 | 25A |
|                                                                                     | ATP04-2P-BM04 | 2 Position, Straight PCB Receptacle, Pin, Tin, BoardLock™ ATP, Snap-Fit, Potting, Black Body (No Add'l Wedgelock Required)           | 12 | 25A |
|  | ATP04-2P-BM11 | 2 Position, Straight PCB Receptacle, Pin, Gold, BoardLock™ ATP, Self-Threading, No Potting, Black Body (No Add'l Wedgelock Required) | 12 | 25A |
|                                                                                     | ATP04-2P-BM12 | 2 Position, Straight PCB Receptacle, Pin, Gold, BoardLock™ ATP, Self-Threading, Potting, Black Body (No Add'l Wedgelock Required)    | 12 | 25A |
|                                                                                     | ATP04-2P-BM13 | 2 Position, Straight PCB Receptacle, Pin, Tin, BoardLock™ ATP, Self-Threading, No Potting, Black Body (No Add'l Wedgelock Required)  | 12 | 25A |
|                                                                                     | ATP04-2P-BM14 | 2 Position, Straight PCB Receptacle, Pin, Tin, BoardLock™ ATP, Self-Threading, Potting, Black Body (No Add'l Wedgelock Required)     | 12 | 25A |

## 2 Position - BoardLock™ ATP13 Series Receptacles

|                                                                                     |                  |                                                                                                                               |    |     |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP13-2P-BM01GRY | 2 Position, 90° PCB Receptacle with Flange, Pin, Gold, Boardlock™ ATP13, No Potting, Grey Body (No Add'l Wedgelock Required)  | 12 | 25A |
|                                                                                     | ATP13-2P-BM02GRY | 2 Position, 90° PCB Receptacle with Flange, Pin, Gold, Boardlock™ ATP13, Potting, Grey Body (No Add'l Wedgelock Required)     | 12 | 25A |
|                                                                                     | ATP13-2P-BM03GRY | 2 Position, 90° PCB Receptacle with Flange, Pin, Tin, Boardlock™ ATP13, No Potting, Grey Body (No Add'l Wedgelock Required)   | 12 | 25A |
|                                                                                     | ATP13-2P-BM04GRY | 2 Position, 90° PCB Receptacle with Flange, Pin, Tin, Boardlock™ ATP13, Potting, Grey Body (No Add'l Wedgelock Required)      | 12 | 25A |
|  | ATP13-2P-BM01BLK | 2 Position, 90° PCB Receptacle with Flange, Pin, Gold, Boardlock™ ATP13, No Potting, Black Body (No Add'l Wedgelock Required) | 12 | 25A |
|                                                                                     | ATP13-2P-BM02BLK | 2 Position, 90° PCB Receptacle with Flange, Pin, Gold, Boardlock™ ATP13, Potting, Black Body (No Add'l Wedgelock Required)    | 12 | 25A |
|                                                                                     | ATP13-2P-BM03BLK | 2 Position, 90° PCB Receptacle with Flange, Pin, Tin, Boardlock™ ATP13, No Potting, Black Body (No Add'l Wedgelock Required)  | 12 | 25A |
|                                                                                     | ATP13-2P-BM04BLK | 2 Position, 90° PCB Receptacle with Flange, Pin, Tin, Boardlock™ ATP13, Potting, Black Body (No Add'l Wedgelock Required)     | 12 | 25A |

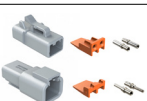
## 2 Position - BoardLock™ ATP15 Series Receptacles

| Image                                                                             | Part Number      | Description                                                                                                                         | Size | Amp |
|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP15-2P-BM01GRY | 2 Position, Straight PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP15, No Potting, Grey Body (No Add'l Wedgelock Required)  | 12   | 25A |
|                                                                                   | ATP15-2P-BM02GRY | 2 Position, Straight PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP15, Potting, Grey Body (No Add'l Wedgelock Required)     | 12   | 25A |
|                                                                                   | ATP15-2P-BM03GRY | 2 Position, Straight PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP15, No Potting, Grey Body (No Add'l Wedgelock Required)   | 12   | 25A |
|                                                                                   | ATP15-2P-BM04GRY | 2 Position, Straight PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP15, Potting, Grey Body (No Add'l Wedgelock Required)      | 12   | 25A |
|  | ATP15-2P-BM01BLK | 2 Position, Straight PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP15, No Potting, Black Body (No Add'l Wedgelock Required) | 12   | 25A |
|                                                                                   | ATP15-2P-BM02BLK | 2 Position, Straight PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP15, Potting, Black Body (No Add'l Wedgelock Required)    | 12   | 25A |
|                                                                                   | ATP15-2P-BM03BLK | 2 Position, Straight PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP15, No Potting, Black Body (No Add'l Wedgelock Required)  | 12   | 25A |
|                                                                                   | ATP15-2P-BM04BLK | 2 Position, Straight PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP15, Potting, Black Body (No Add'l Wedgelock Required)     | 12   | 25A |

## 2 Position - PanelMate™ ATP Series Receptacles and Wedgelocks

|                                                                                     |                  |                                                                                                                                                                                               |    |    |
|-------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|    | ATP04-2P-PM07G   | 2 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.)          | 12 | 25 |
|    | ATP04-2P-PM07GEC | 2 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.) | 12 | 25 |
|   | ATP04-2P-PM08G   | 2 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)           | 12 | 25 |
|  | ATP04-2P-PM08GEC | 2 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)  | 12 | 25 |
|  | AWP-2P           | 2 Position, Receptacle Wedgelock, ATP Series™, Standard Orange                                                                                                                                | -  | -  |
|  | AWP-2PA          | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed A, Grey                                                                                                                                  | -  | -  |
|  | AWP-2PB          | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed B, Black                                                                                                                                 | -  | -  |
|  | AWP-2PC          | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed C, Green                                                                                                                                 | -  | -  |
|  | AWP-2PD          | 2 Position, Receptacle Wedgelock, ATP Series™, Keyed D, Brown                                                                                                                                 | -  | -  |

## 2 Position - ATP Series™ Kits

|                                                                                     |                |                                                                                                                                                                         |    |     |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP06-2S-KIT01 | 2 Position, Plug Kit, ATP Series™ (1) Plug, (2) Socket Contacts, (1) AWP-2S Wedgelock                                                                                   | 12 | 25A |
|  | ATP04-2P-KIT01 | 2 Position, Receptacle Kit, ATP Series™ (1) Receptacle, (2) Pin Contacts, (1) AWP-2P Wedgelock                                                                          | 12 | 25A |
|   | ATP2PS-CKIT    | 2 Position, Plug/Receptacle Kit, ATP Series™ (1) Plug, (2) Socket Contacts, (1) AWP-2S Plug Wedgelock (1) Receptacle, (2) Pin Contacts, (1) AWP-2P Receptacle Wedgelock | 12 | 25A |

## 4 Position - ATP Series™ Receptacles and Wedgelocks

| Image                                                                               | Part Number      | Description                                                                                                                                          | Size | Amp |
|-------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | ATP06-4S         | 4 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-4S. Keyed Options Available.)            | 12   | 25A |
|    | ATP06-4S-BLK     | 4 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-4S. Keyed Options Available.)           | 12   | 25A |
|    | ATP06-4S-EC01    | 4 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-4S. Keyed Options Available.)   | 12   | 25A |
|    | ATP06-4S-EC01BLK | 4 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-4S. Keyed Options Available.)  | 12   | 25A |
|    | ATP06-4S-MM01    | 4 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), End Cap, Grey Body (Requires Wedgelock AWP-4S. Keyed Options Available.)  | 12   | 25A |
|    | ATP06-4S-MM01BLK | 4 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AWP-4S. Keyed Options Available.) | 12   | 25A |
|    | ATP06-4S-RD01    | 4 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-4S. Keyed Options Available.)           | 12   | 25A |
|  | ATP06-4S-RD01BK  | 4 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-4S. Keyed Options Available.)          | 12   | 25A |
|  | AWP-4S           | 4 Position, Plug Wedgelock, ATP Series™, Standard Orange                                                                                             | -    | -   |
|  | AWP-4SA          | 4 Position, Plug Wedgelock, ATP Series™, Keyed A, Grey                                                                                               | -    | -   |
|  | AWP-4SB          | 4 Position, Plug Wedgelock, ATP Series™, Keyed B, Black                                                                                              | -    | -   |
|  | AWP-4SC          | 4 Position, Plug Wedgelock, ATP Series™, Keyed C, Green                                                                                              | -    | -   |
|  | AWP-4SD          | 4 Position, Plug Wedgelock, ATP Series™, Keyed D, Brown                                                                                              | -    | -   |

## 4 Position - ATP Series™ Receptacles and Wedgelocks

|                                                                                     |                  |                                                                                                                                                        |    |     |
|-------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-4P         | 4 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-4P. Keyed Options Available.)           | 12 | 25A |
|  | ATP04-4P-BLK     | 4 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-4P. Keyed Options Available.)          | 12 | 25A |
|  | ATP04-4P-EC01    | 4 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-4P. Keyed Options Available.)  | 12 | 25A |
|  | ATP04-4P-EC01BLK | 4 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-4P. Keyed Options Available.) | 12 | 25A |

## 4 Position - ATP Series™ Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number      | Description                                                                                                                                             | Size | Amp |
|-----------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP04-4P-MM01    | 4 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), End Cap, Grey Body (Requires Wedgelock AWP-4P. Keyed Options Available.)  | 12   | 25A |
|  | ATP04-4P-MM01BLK | 4 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AWP-4P. Keyed Options Available.) | 12   | 25A |
|  | ATP04-4P-RD01    | 4 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-4P. Keyed Options Available.)           | 12   | 25A |
|  | ATP04-4P-RD01BLK | 4 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AWP-4P. Keyed Options Available.) | 12   | 25A |
|  | AWP-4P           | 4 Position, Receptacle Wedgelock, ATP Series™, Standard Orange                                                                                          | -    | -   |
|  | AWP-4PA          | 4 Position, Receptacle Wedgelock, ATP Series™, Keyed A, Grey                                                                                            | -    | -   |
|  | AWP-4PB          | 4 Position, Receptacle Wedgelock, ATP Series™, Keyed B, Black                                                                                           | -    | -   |
|  | AWP-4PC          | 4 Position, Receptacle Wedgelock, ATP Series™, Keyed C, Green                                                                                           | -    | -   |
|  | AWP-4PD          | 4 Position, Receptacle Wedgelock, ATP Series™, Keyed D, Brown                                                                                           | -    | -   |

## 4 Position - ATP Series™ Plugs and Wedgelocks (with SR01/02 Strain Relief)

|                                                                                     |                 |                                                                                                                                                                 |    |     |
|-------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP06-4S-SR01   | 4 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWP-4S. Keyed Options Available.)   | 12 | 25A |
|  | ATP06-4S-SR01BK | 4 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWP-4S. Keyed Options Available.)  | 12 | 25A |
|  | ATP06-4S-SR02   | 4 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AWP-4S. Keyed Options Available.)  | 12 | 25A |
|  | ATP06-4S-SR02BK | 4 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AWP-4S. Keyed Options Available.) | 12 | 25A |
|  | AWP-4S          | 4 Position, Plug Wedgelock, ATP Series™, Standard Orange                                                                                                        | -  | -   |
|  | AWP-4SA         | 4 Position, Plug Wedgelock, ATP Series™, Keyed A, Grey                                                                                                          | -  | -   |
|  | AWP-4SB         | 4 Position, Plug Wedgelock, ATP Series™, Keyed B, Black                                                                                                         | -  | -   |
|  | AWP-4SC         | 4 Position, Plug Wedgelock, ATP Series™, Keyed C, Green                                                                                                         | -  | -   |
|  | AWP-4SD         | 4 Position, Plug Wedgelock, ATP Series™, Keyed D, Brown                                                                                                         | -  | -   |

## 4 Position - ATP Series™ Receptacles and Wedgelocks (with SR01/02 Strain Relief)

| Image                                                                              | Part Number     | Description                                                                                                                                                        | Size | Amp |
|------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|   | ATP04-4P-SR01   | 4 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWP-4P. Keyed Options Available.)   | 12   | 25A |
|   | ATP04-4P-SR01BK | 4 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWP-4P. Keyed Options Available.)  | 12   | 25A |
|   | ATP04-4P-SR02   | 4 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AWP-4P. Keyed Options Available.)  | 12   | 25A |
|   | ATP04-4P-SR02BK | 4 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AWP-4P. Keyed Options Available.) | 12   | 25A |
|   | AWP-4P          | 4 Position, Receptacle Wedgelock, ATP Series™, Standard Orange                                                                                                     | -    | -   |
|   | AWP-4PA         | 4 Position, Receptacle Wedgelock, ATP Series™, Keyed A, Grey                                                                                                       | -    | -   |
|   | AWP-4PB         | 4 Position, Receptacle Wedgelock, ATP Series™, Keyed B, Black                                                                                                      | -    | -   |
|   | AWP-4PC         | 4 Position, Receptacle Wedgelock, ATP Series™, Keyed C, Green                                                                                                      | -    | -   |
|  | AWP-4PD         | 4 Position, Receptacle Wedgelock, ATP Series™, Keyed D, Brown                                                                                                      | -    | -   |

## 4 Position - BoardLock™ ATP Series Receptacles

|                                                                                     |               |                                                                                                                                      |    |     |
|-------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-4P-BM01 | 4 Position, Straight PCB Receptacle, Pin, Gold, BoardLock™ ATP, Snap-Fit, No Potting, Black Body (No Add'l Wedgelock Required)       | 12 | 25A |
|                                                                                     | ATP04-4P-BM02 | 4 Position, Straight PCB Receptacle, Pin, Gold, BoardLock™ ATP, Snap-Fit, Potting, Black Body (No Add'l Wedgelock Required)          | 12 | 25A |
|                                                                                     | ATP04-4P-BM03 | 4 Position, Straight PCB Receptacle, Pin, Tin, BoardLock™ ATP, Snap-Fit, No Potting, Black Body (No Add'l Wedgelock Required)        | 12 | 25A |
|                                                                                     | ATP04-4P-BM04 | 4 Position, Straight PCB Receptacle, Pin, Tin, BoardLock™ ATP, Snap-Fit, Potting, Black Body (No Add'l Wedgelock Required)           | 12 | 25A |
|  | ATP04-4P-BM11 | 4 Position, Straight PCB Receptacle, Pin, Gold, BoardLock™ ATP, Self-Threading, No Potting, Black Body (No Add'l Wedgelock Required) | 12 | 25A |
|                                                                                     | ATP04-4P-BM12 | 4 Position, Straight PCB Receptacle, Pin, Gold, BoardLock™ ATP, Self-Threading, Potting, Black Body (No Add'l Wedgelock Required)    | 12 | 25A |
|                                                                                     | ATP04-4P-BM13 | 4 Position, Straight PCB Receptacle, Pin, Tin, BoardLock™ ATP, Self-Threading, No Potting, Black Body (No Add'l Wedgelock Required)  | 12 | 25A |
|                                                                                     | ATP04-4P-BM14 | 4 Position, Straight PCB Receptacle, Pin, Tin, BoardLock™ ATP, Self-Threading, Potting, Black Body (No Add'l Wedgelock Required)     | 12 | 25A |

## 4 Position - BoardLock™ ATP13 Series Receptacles

|                                                                                     |                  |                                                                                                                                                       |    |     |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP13-4P-BM01GRY | 4 Position, 90° PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP13, Self-Threading, Gasket, No Potting, Grey Body (No Add'l Wedgelock Required) | 12 | 25A |
|                                                                                     | ATP13-4P-BM02GRY | 4 Position, 90° PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP13, Self-Threading, Gasket, Potting, Grey Body (No Add'l Wedgelock Required)    | 12 | 25A |
|                                                                                     | ATP13-4P-BM03GRY | 4 Position, 90° PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP13, Self-Threading, Gasket, No Potting, Grey Body (No Add'l Wedgelock Required)  | 12 | 25A |
|                                                                                     | ATP13-4P-BM04GRY | 4 Position, 90° PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP13, Self-Threading, Gasket, Potting, Grey Body (No Add'l Wedgelock Required)     | 12 | 25A |



## 4 Position - BoardLock™ ATP13 Series Receptacles, cont.

| Image                                                                             | Part Number      | Description                                                                                                                                            | Size | Amp |
|-----------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP13-4P-BM01BLK | 4 Position, 90° PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP13, Self-Threading, Gasket, No Potting, Black Body (No Add'l Wedgelock Required) | 12   | 25A |
|                                                                                   | ATP13-4P-BM02BLK | 4 Position, 90° PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP13, Self-Threading, Gasket, Potting, Black Body (No Add'l Wedgelock Required)    | 12   | 25A |
|                                                                                   | ATP13-4P-BM03BLK | 4 Position, 90° PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP13, Self-Threading, Gasket, No Potting, Black Body (No Add'l Wedgelock Required)  | 12   | 25A |
|                                                                                   | ATP13-4P-BM04BLK | 4 Position, 90° PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP13, Self-Threading, Gasket, Potting, Black Body (No Add'l Wedgelock Required)     | 12   | 25A |

## 4 Position - BoardLock™ ATP15 Series Receptacles

|                                                                                   |                  |                                                                                                                                     |    |     |
|-----------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP15-4P-BM01GRY | 4 Position, Straight PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP15, No Potting, Grey Body (No Add'l Wedgelock Required)  | 12 | 25A |
|                                                                                   | ATP15-4P-BM02GRY | 4 Position, Straight PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP15, Potting, Grey Body (No Add'l Wedgelock Required)     | 12 | 25A |
|                                                                                   | ATP15-4P-BM03GRY | 4 Position, Straight PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP15, No Potting, Grey Body (No Add'l Wedgelock Required)   | 12 | 25A |
|                                                                                   | ATP15-4P-BM04GRY | 4 Position, Straight PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP15, Potting, Grey Body (No Add'l Wedgelock Required)      | 12 | 25A |
|  | ATP15-4P-BM01BLK | 4 Position, Straight PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP15, No Potting, Black Body (No Add'l Wedgelock Required) | 12 | 25A |
|                                                                                   | ATP15-4P-BM02BLK | 4 Position, Straight PCB Receptacle with Flange, Pins, Gold, Boardlock™ ATP15, Potting, Black Body (No Add'l Wedgelock Required)    | 12 | 25A |
|                                                                                   | ATP15-4P-BM03BLK | 4 Position, Straight PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP15, No Potting, Black Body (No Add'l Wedgelock Required)  | 12 | 25A |
|                                                                                   | ATP15-4P-BM04BLK | 4 Position, Straight PCB Receptacle with Flange, Pins, Tin, Boardlock™ ATP15, Potting, Black Body (No Add'l Wedgelock Required)     | 12 | 25A |

## 4 Position - ATP Series™ Kits

|                                                                                     |                |                                                                                                                                                                         |    |     |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP06-4S-KIT01 | 4 Position, Plug Kit, ATP Series™ (1) Plug, (4) Socket Contacts, (1) AWP-4S Wedgelock                                                                                   | 12 | 25A |
|  | ATP04-4P-KIT01 | 4 Position, Receptacle Kit, ATP Series™ (1) Receptacle, (4) Pin Contacts, (1) AWP-4P Wedgelock                                                                          | 12 | 25A |
|  | ATP4PS-CKIT    | 4 Position, Plug/Receptacle Kit, ATP Series™ (1) Plug, (4) Socket Contacts, (1) AWP-4S Plug Wedgelock (1) Receptacle, (4) Pin Contacts, (1) AWP-4P Receptacle Wedgelock | 12 | 25A |

## 6 Position - ATP Series™ Plugs and Wedgelocks

|                                                                                     |                 |                                                                                                                                                    |    |     |
|-------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP06-6S        | 6 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)          | 12 | 25A |
|  | ATP06-6S-BLK    | 6 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.)         | 12 | 25A |
|  | ATP06-6S-EC01   | 6 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), Endcap, Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25A |
|  | ATP06-6S-EC01BK | 6 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), Endcap, Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.) | 12 | 25A |

## 6 Position - ATP Series™ Plugs and Wedgelocks, cont.

| Image                                                                             | Part Number     | Description                                                                                                                                         | Size | Amp |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP06-6S-MM01   | 6 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Endcap, Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12   | 25A |
|  | ATP06-6S-MM01BK | 6 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Endcap, Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.) | 12   | 25A |
|  | ATP06-6S-RD01   | 6 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)          | 12   | 25A |
|  | ATP06-6S-RD01BK | 6 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.)         | 12   | 25A |
|  | AWP-6S          | 6 Position, Plug Wedgelock, ATP Series™, Standard Orange                                                                                            | -    | -   |
|  | AWP-6SA         | 6 Position, Plug Wedgelock, ATP Series™, Keyed A, Grey                                                                                              | -    | -   |
|  | AWP-6SB         | 6 Position, Plug Wedgelock, ATP Series™, Keyed B, Black                                                                                             | -    | -   |

## 6 Position - ATP Series™ Receptacles and Wedgelocks

|                                                                                     |                 |                                                                                                                                                         |    |     |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-6P        | 6 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)            | 12 | 25A |
|  | ATP04-6P-BLK    | 6 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)           | 12 | 25A |
|  | ATP04-6P-EC01   | 6 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)   | 12 | 25A |
|  | ATP04-6P-EC01BK | 6 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12 | 25A |
|  | ATP04-6P-MM01   | 6 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), End Cap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12 | 25A |
|  | ATP04-6P-MM01BK | 6 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.) | 12 | 25A |
|  | ATP04-6P-RD01   | 6 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)           | 12 | 25A |
|  | ATP04-6P-RD01BK | 6 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)          | 12 | 25A |
|  | AWP-6P          | 6 Position, Receptacle Wedgelock, ATP Series™, Standard Orange                                                                                          | -  | -   |

6 Position - ATP Series™ Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number | Description                                                   | Size | Amp |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|------|-----|
|  | AWP-6PA     | 6 Position, Receptacle Wedgelock, ATP Series™, Keyed A, Grey  | -    | -   |
|  | AWP-6PB     | 6 Position, Receptacle Wedgelock, ATP Series™, Keyed B, Black | -    | -   |

6 Position - ATP Series™ Plug and Wedgelocks (with SR01/02 Strain Relief)

|                                                                                     |                 |                                                                                                                                                                 |    |     |
|-------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | ATP06-6S-SR01   | 6 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12 | 25A |
|    | ATP06-6S-SR01BK | 6 Position, Plug, Socket, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25A |
|    | ATP06-6S-SR02   | 6 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25A |
|    | ATP06-6S-SR02BK | 6 Position, Plug, Socket, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.) | 12 | 25A |
|    | AWP-6S          | 6 Position, Plug Wedgelock, ATP Series™, Standard Orange                                                                                                        | -  | -   |
|    | AWP-6SA         | 6 Position, Plug Wedgelock, ATP Series™, Keyed A, Grey                                                                                                          | -  | -   |
|  | AWP-6SB         | 6 Position, Plug Wedgelock, ATP Series™, Keyed B, Black                                                                                                         | -  | -   |

6 Position - ATP Series™ Receptacles and Wedgelocks (with SR01/02 Strain Relief)

|                                                                                     |                 |                                                                                                                                                                    |    |     |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-6P-SR01   | 6 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)   | 12 | 25A |
|  | ATP04-6P-SR01BK | 6 Position, Receptacle, Pin, ATP Series™, Standard Diameter Rear Seal (Red), SR01 Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12 | 25A |
|  | ATP04-6P-SR02   | 6 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12 | 25A |
|  | ATP04-6P-SR02BK | 6 Position, Receptacle, Pin, ATP Series™, Reduced Diameter Rear Seal (Green), SR02 Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.) | 12 | 25A |
|  | AWP-6P          | 6 Position, Receptacle Wedgelock, ATP Series™, Standard Orange                                                                                                     | -  | -   |
|  | AWP-6PA         | 6 Position, Receptacle Wedgelock, ATP Series™, Keyed A, Grey                                                                                                       | -  | -   |
|  | AWP-6PB         | 6 Position, Receptacle Wedgelock, ATP Series™, Keyed B, Black                                                                                                      | -  | -   |

## 6 Position - BoardLock™ ATP Series Receptacles

| Image                                                                             | Part Number   | Description                                                                                                                                   | Size | Amp |
|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP04-6P-BM01 | 6 Position, Straight PCB Receptacle, Pin, BoardLock™ ATP, Snap-Fit, Gold Contact Plated, No Potting, Black Body (No Add'l Wedgelock Required) | 12   | 25A |
|                                                                                   | ATP04-6P-BM02 | 6 Position, Straight PCB Receptacle, Pin, BoardLock™ ATP, Snap-Fit, Gold Contact Plated, Potting, Black Body (No Add'l Wedgelock Required)    | 12   | 25A |
|                                                                                   | ATP04-6P-BM03 | 6 Position, Straight PCB Receptacle, Pin, BoardLock™ ATP, Snap-Fit, Tin Contact Plated, No Potting, Black Body (No Add'l Wedgelock Required)  | 12   | 25A |
|                                                                                   | ATP04-6P-BM04 | 6 Position, Straight PCB Receptacle, Pin, BoardLock™ ATP, Snap-Fit, Tin Contact Plated, Potting, Black Body (No Add'l Wedgelock Required)     | 12   | 25A |
|  | ATP04-6P-BM11 | 6 Position, Straight PCB Receptacle, Pin, BoardLock™ ATP, Snap-Fit, Gold Contact Plated, No Potting, Black Body (No Add'l Wedgelock Required) | 12   | 25A |
|                                                                                   | ATP04-6P-BM12 | 6 Position, Straight PCB Receptacle, Pin, BoardLock™ ATP, Snap-Fit, Gold Contact Plated, Potting, Black Body (No Add'l Wedgelock Required)    | 12   | 25A |
|                                                                                   | ATP04-6P-BM13 | 6 Position, Straight PCB Receptacle, Pin, BoardLock™ ATP, Snap-Fit, Tin Contact Plated, No Potting, Black Body (No Add'l Wedgelock Required)  | 12   | 25A |
|                                                                                   | ATP04-6P-BM14 | 6 Position, Straight PCB Receptacle, Pin, BoardLock™ ATP, Snap-Fit, Tin Contact Plated, Potting, Black Body (No Add'l Wedgelock Required)     | 12   | 25A |

## 6 Position - HYPERBUS™ ATP Series Receptacles

|                                                                                   |               |                                                                                               |    |     |
|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-6PA-BUS | 6 Position, HYPERBUS™ ATP, Receptacle, Pin, Busbar, Keyed A, Grey Body, Integrated Wedgelock  | 12 | 25A |
|  | ATP04-6PB-BUS | 6 Position, HYPERBUS™ ATP, Receptacle, Pin, Busbar, Keyed B, Black Body, Integrated Wedgelock | 12 | 25A |

## 6 Position - PanelMate™ ATP Series Receptacles and Wedgelocks

|                                                                                     |                   |                                                                                                                                                                                                      |    |     |
|-------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-6P-PM05     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                 | 12 | 25A |
|  | ATP04-6P-PM05BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                | 12 | 25A |
|  | ATP04-6P-PM05EC   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Endcap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)         | 12 | 25A |
|  | ATP04-6P-PM05ECBK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Endcap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)        | 12 | 25A |
|  | ATP04-6P-PM05SR   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12 | 25A |
|  | ATP04-6P-PM05SRBK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.) | 12 | 25A |
|  | ATP04-6P-PM06     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                | 12 | 25A |
|  | ATP04-6P-PM06BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)               | 12 | 25A |

## 6 Position - PanelMate™ ATP Series Receptacles and Wedgelocks, cont.

| Image                                                                               | Part Number       | Description                                                                                                                                                                                           | Size | Amp |
|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | ATP04-6P-PM06EC   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Endcap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)         | 12   | 25A |
|    | ATP04-6P-PM06ECBK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Endcap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)        | 12   | 25A |
|    | ATP04-6P-PM06SR   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12   | 25A |
|    | ATP04-6P-PM06SRBK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.) | 12   | 25A |
|    | ATP04-6P-PM11     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                   | 12   | 25A |
|    | ATP04-6P-PM11BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                  | 12   | 25A |
|   | ATP04-6P-PM12     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                  | 12   | 25A |
|  | ATP04-6P-PM12BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                 | 12   | 25A |
|  | ATP04-6P-PM13     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)          | 12   | 25A |
|  | ATP04-6P-PM13BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)         | 12   | 25A |
|  | ATP04-6P-PM14     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)         | 12   | 25A |
|  | ATP04-6P-PM14BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)        | 12   | 25A |
|  | ATP04-6P-PM15     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)    | 12   | 25A |
|  | ATP04-6P-PM15BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AWP-6P)                           | 12   | 25A |
|  | ATP04-6P-PM16     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)   | 12   | 25A |
|  | ATP04-6P-PM16BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12   | 25A |



## 6 Position - PanelMate™ ATP Series Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number | Description                                                    | Size | Amp |
|-----------------------------------------------------------------------------------|-------------|----------------------------------------------------------------|------|-----|
|  | AWP-6P      | 6 Position, Receptacle Wedgelock, ATP Series™, Standard Orange | -    | -   |
|  | AWP-6PA     | 6 Position, Receptacle Wedgelock, ATP Series™, Keyed A, Grey   | -    | -   |
|  | AWP-6PB     | 6 Position, Receptacle Wedgelock, ATP Series™, Keyed B, Black  | -    | -   |

## 6 Position - StructurePlus™ ATP Series Plugs and Wedgelocks

|                                                                                     |                  |                                                                                                                                                     |    |     |
|-------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | ATP06-6S-OMBLK   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12 | 25A |
|                                                                                     | ATP06-6S-OMRDBLK | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25A |
|    | ATP06-6S-OMBLU   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Blue Body (Requires Wedgelock AWP-6S. Keyed Options Available.)    | 12 | 25A |
|                                                                                     | ATP06-6S-OMRDBLU | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Blue Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12 | 25A |
|    | ATP06-6S-OMBRN   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Brown Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12 | 25A |
|                                                                                     | ATP06-6S-OMRDBRN | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Brown Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25A |
|   | ATP06-6S-OMGRN   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Green Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12 | 25A |
|                                                                                     | ATP06-6S-OMRDGRN | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Green Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25A |
|  | ATP06-6S-OMGRY   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)    | 12 | 25A |
|                                                                                     | ATP06-6S-OMRDGRY | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12 | 25A |
|  | ATP06-6S-OMRED   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Red Body (Requires Wedgelock AWP-6S. Keyed Options Available.)     | 12 | 25A |
|                                                                                     | ATP06-6S-OMRDRED | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Red Body (Requires Wedgelock AWP-6S. Keyed Options Available.)    | 12 | 25A |
|  | ATP06-6S-OMWHT   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), White Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12 | 25A |
|                                                                                     | ATP06-6S-OMRDWHT | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), White Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25A |
|  | ATP06-6S-OMYEL   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Yellow Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25A |
|                                                                                     | ATP06-6S-OMRDYEL | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Yellow Body (Requires Wedgelock AWP-6S. Keyed Options Available.) | 12 | 25A |
|  | AWP-6S           | 6 Position, Plug Wedgelock, ATP Series™, Standard Orange                                                                                            | -  | -   |
|  | AWP-6SA          | 6 Position, Plug Wedgelock, ATP Series™, Keyed A, Grey                                                                                              | -  | -   |
|  | AWP-6SB          | 6 Position, Plug Wedgelock, ATP Series™, Keyed B, Black                                                                                             | -  | -   |

## 6 Position - ATP Series™ Kits

|                                                                                     |                |                                                                                       |    |     |
|-------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------|----|-----|
|  | ATP06-6S-KIT01 | 6 Position, Plug Kit, ATP Series™ (1) Plug, (6) Socket Contacts, (1) AWP-6S Wedgelock | 12 | 25A |
|-------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------|----|-----|

6 Position - ATP Series™ Kits, cont.

| Image                                                                            | Part Number    | Description                                                                                                                                                            | Size | Amp |
|----------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP04-6P-KIT01 | 6 Position, Receptacle Kit, ATP Series™ (1) Receptacle, (6) Pin Contacts, (1) AWP-6P Wedgelock                                                                         | 12   | 25A |
|  | ATP6PS-CKIT    | 6 Position, Plug/Receptacle Kit, ATP Series™ (1) Plug, (6) Socket Contacts, (1) AWP-6S Plug Wedgelock (1) Receptacle, (6) Pin Contacts, (1)AWP-6P Receptacle Wedgelock | 12   | 25A |

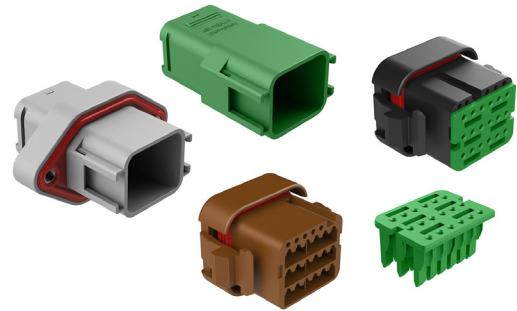
For more information, contact:

Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

© 2018 Amphenol Sine Systems Corporation, 44274 Morley Drive, Clinton Township MI 48036 USA. [www.amphenol-sine.com](http://www.amphenol-sine.com). Customer Service +1 800 394 7732 Every effort has been made to ensure that the information contained in this document is accurate at the time of publication. Specifications or information stated in this document are subject to change without notice.



# ATV Series™



## 18 Position Heavy Duty Connectors

The ATV Series™ connectors further expands the proven reliability of the AT Series™ with a compact 18 position sealed flange design. The durable thermoplastic housings feature built-in contact sealing to eliminate individual wire-sealing grommets, while an integral interfacial seal protects mated connectors. The ATV Series™ is perfectly suited to on and off highway applications, marine, industrial, and agriculture markets in harsh environments.

### Key Features

- 18 Position cavity arrangement
- Rectangular, thermoplastic housing
- Accepts contact size 16 (13A)
- 14-22AWG
- Flange Mount or In-line (Flangeless) Capability
- Integrated latch for mating
- Integrated wedgelock confirms contact alignment/retention
- Available in custom color options



|                              |                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housings                     | Thermoplastic                                                                                                                                                           |
| Seals                        | Silicone Elastomer                                                                                                                                                      |
| Secondary Locks              | Thermoplastic                                                                                                                                                           |
| Contacts                     | Copper Alloy, Nickel Plated, Gold optional                                                                                                                              |
| Temperature                  | Operating temperature range: -55°C to +125°C at rated current                                                                                                           |
| Dielectric Value             | Meets or exceeds 1500 volts minimum                                                                                                                                     |
| Drop Test                    | Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times.                                                                         |
| Shock                        | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                                   |
| Vibration                    | Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)                 |
| Connector Terminal Retention | When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.                                                                                   |
| Connector Retention          | A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds |
| Thermal Shock                | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector                               |
| Insulation Resistance        | 1000 megohms minimum at 25°C                                                                                                                                            |
| Mating Cycle Durability      | Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident                                             |
| Contact Millivolt Drop       | Size 16 contacts with 16AWG conductor - 100 mV drop max at 13A test current                                                                                             |
| IP Rating                    | IP67/69K (in mated condition)                                                                                                                                           |

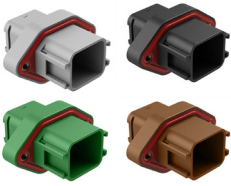
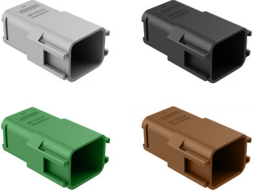
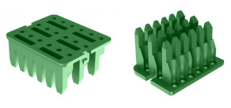


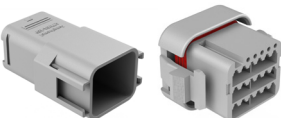
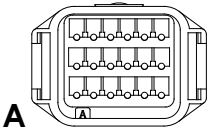
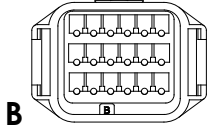
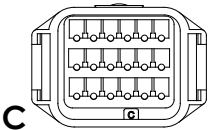
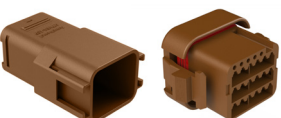
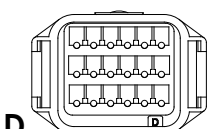
**A Series™ Family**

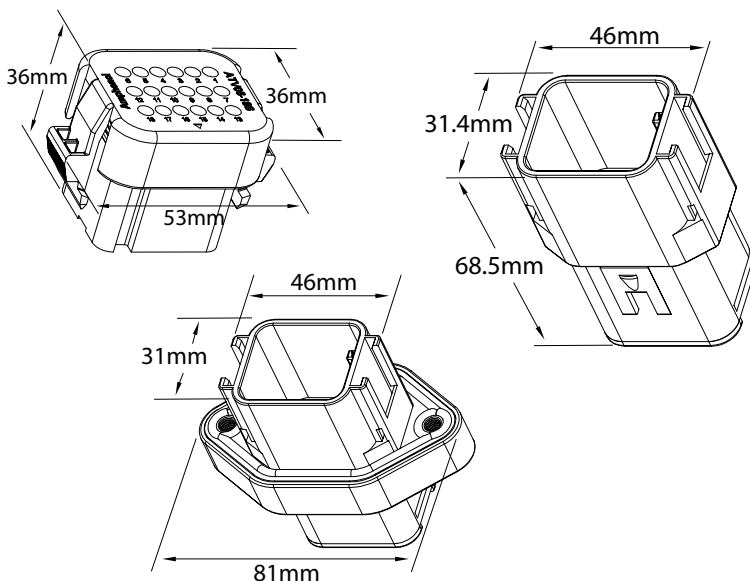


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ATV Series™ Heavy Duty Connectors

| Image                                                                               | Part Number     | Description                                                                          |
|-------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|
|    | ATV02-18PA      | 18 Pos., Flange Mount Receptacle, Size 16 Contact, Key A, Grey                       |
|                                                                                     | ATV02-18PA-RR01 | 18 Pos., Flange Mount Receptacle, Size 16 Contact, Key A, Double Reduced Seal, Grey  |
|                                                                                     | ATV02-18PB      | 18 Pos., Flange Mount Receptacle, Size 16 Contact, Key B, Black                      |
|                                                                                     | ATV02-18PB-RR01 | 18 Pos., Flange Mount Receptacle, Size 16 Contact, Key B, Double Reduced Seal, Black |
|                                                                                     | ATV02-18PC      | 18 Pos., Flange Mount Receptacle, Size 16 Contact, Key C, Green                      |
|                                                                                     | ATV02-18PC-RR01 | 18 Pos., Flange Mount Receptacle, Size 16 Contact, Key C, Double Reduced Seal, Green |
|                                                                                     | ATV02-18PD      | 18 Pos., Flange Mount Receptacle, Size 16 Contact, Key D, Brown                      |
|                                                                                     | ATV02-18PD-RR01 | 18 Pos., Flange Mount Receptacle, Size 16 Contact, Key D, Double Reduced Seal, Brown |
|     | ATV04-18PA      | 18 Pos., In-Line Receptacle, Size 16 Contact, Key A, Grey                            |
|                                                                                     | ATV04-18PA-RR01 | 18 Pos., In-Line Receptacle, Size 16 Contact, Key A, Double Reduced Seal, Grey       |
|                                                                                     | ATV04-18PB      | 18 Pos., In-Line Receptacle, Size 16 Contact, Key B, Black                           |
|                                                                                     | ATV04-18PB-RR01 | 18 Pos., In-Line Receptacle, Size 16 Contact, Key B, Double Reduced Seal, Black      |
|                                                                                     | ATV04-18PC      | 18 Pos., In-Line Receptacle, Size 16 Contact, Key C, Green                           |
|                                                                                     | ATV04-18PC-RR01 | 18 Pos., In-Line Receptacle, Size 16 Contact, Key C, Double Reduced Seal, Green      |
|                                                                                     | ATV04-18PD      | 18 Pos., In-Line Receptacle, Size 16 Contact, Key D, Brown                           |
|                                                                                     | ATV04-18PD-RR01 | 18 Pos., In-Line Receptacle, Size 16 Contact, Key D, Double Reduced Seal, Brown      |
|    | ATV06-18SA      | 18 Pos., Plug, Size 16 Contact, Key A, Standard Seal, Grey                           |
|                                                                                     | ATV06-18SA-RR01 | 18 Pos., Plug, Size 16 Contact, Key A, Double Reduced Seal, Grey                     |
|                                                                                     | ATV06-18SB      | 18 Pos., Plug, Size 16 Contact, Key B, Standard Seal, Black                          |
|                                                                                     | ATV06-18SB-RR01 | 18 Pos., Plug, Size 16 Contact, Key B, Double Reduced Seal, Black                    |
|                                                                                     | ATV06-18SC      | 18 Pos., Plug, Size 16 Contact, Key C, Standard Seal, Green                          |
|                                                                                     | ATV06-18SC-RR01 | 18 Pos., Plug, Size 16 Contact, Key C, Double Reduced Seal, Green                    |
|                                                                                     | ATV06-18SD      | 18 Pos., Plug, Size 16 Contact, Key D, Standard Seal, Brown                          |
|                                                                                     | ATV06-18SD-RR01 | 18 Pos., Plug, Size 16 Contact, Key D, Double Reduced Seal, Brown                    |
|  | AWV-18P         | Wedglock For 18 Pos., ATV Receptacle, Green                                          |
|                                                                                     | AWV-18S         | Wedglock For 18 Pos., ATV Plug, Green                                                |

| Image                                                                              | Keying Option A, B, C, D                                                            |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
|  |  |
|  |  |
|  |  |



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)



# BL BoardLock™ Family

Available in AT, ATM, ATHD and ATP Versions

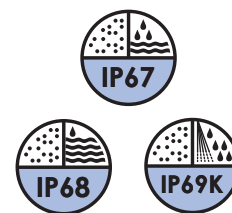
Amphenol Sine Systems' **BoardLock™ Family** combines flanged or flangeless, straight or 90° right angle pin-oriented, wire-to-board versatility with the proven reliability of the A Series™ environmentally-sealed thermoplastic connection system with a maximum current rating up to 100A. Featuring a compact, durable, low-profile and lightweight design, perfect for power or data signal applications. All **BoardLock™** product lines accept A Series™ components and are compatible with other industry standard mating connectors.

## Applications

Power & Signal Connectivity, Data Acquisition, HVAC Systems, Farming Implementation, Boating, Sealed Environments, Heavy Equipment, Transportation, Industrial, Off-Road and Harsh Environments

## Features

- Flanged or Flangeless
- Mounting Options: Snap-Fit or Self-Threading
- Straight or 90° Right Angle Pin Orientation
- Potting or No Potting



## BoardLock™ Family Specifications Overview

|                          |                                                         |
|--------------------------|---------------------------------------------------------|
| Positions                | 1, 2, 3, 4, 6, 8, 12, 13 and 18 (See individual series) |
| Current Rating           | 7.5A to 100A (See individual series)                    |
| Pin Orientation          | Straight or 90° Right Angle                             |
| Mounting Type            | Snap-Fit or Self-Threading (See individual series)      |
| Flange                   | Flange or Flangeless (See individual series)            |
| Contact Material/Plating | Copper Alloy/Gold, Nickel or Tin Plating                |
| Contact Millivolt Drop   | See individual series                                   |
| Contact Termination      | Direct Solder                                           |
| Contact Types            | Machined, PC Tail                                       |
| Housing Material         | Thermoplastic                                           |
| Insulation Resistance    | 1000 megohms minimum at 25°C                            |
| IP Rating                | See individual series                                   |
| Keying Options           | See individual series                                   |
| Mating Cycles            | 100 Cycles                                              |

|                   |                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Voltage | 250V to 500V                                                                                                                                            |
| Seal Material     | Silicone Rubber (See individual series)                                                                                                                 |
| Temperature Range | -55°C to +125°C at rated current                                                                                                                        |
| Shock             | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   |
| Thermal Shock     | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               |
| Vibration         | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) |



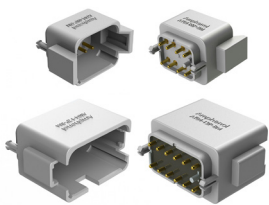
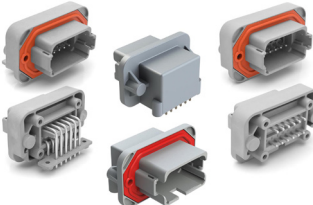
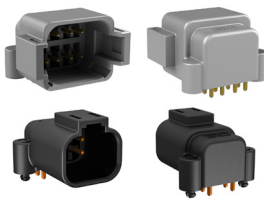
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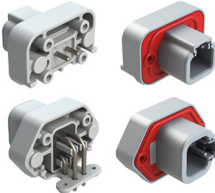
**BoardLock™ Family Comparison Chart**

| Series                   |  <b>BoardLock™ AT</b>                                                  |  <b>BoardLock™ AT13/15</b>                                             |  <b>BoardLock™ ATF13</b>                                             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image                    |                                                                        |                                                                       |                                                                      |
| Positions                | 2, 3, 4, 6, 8, 12 and 18                                                                                                                                | 2, 4, 6, 8, 12, 13 and 18                                                                                                                               | 2, 3, 4, 6, 8 and 12<br>13 (Mixed Power and Signal)                                                                                                     |
| Current Rating           | Size 16, 13A                                                                                                                                            | 2, 4, 6, 8, 12, 18 pos: Size 16, 13A<br>13 pos: Size 16, 13A; Size 12, 25A                                                                              | 2, 3, 4, 6, 8, 12 pos: Size 16, 13A<br>13 pos: Size 16, 13A; Size 12, 25A                                                                               |
| Pin Orientation          | Straight                                                                                                                                                | <b>AT13:</b> 90° Right Angle / <b>AT15:</b> Straight                                                                                                    | 90° Right Angle                                                                                                                                         |
| Mounting Type            | Snap-Fit (2-12 Pos) or Self-Threading (18 Pos)                                                                                                          | Self-Threading                                                                                                                                          | Snap-Fit or Self-Threading                                                                                                                              |
| Flange                   | Flangeless                                                                                                                                              | Flanged                                                                                                                                                 | Flangeless                                                                                                                                              |
| Contact Material/Plating | Copper Alloy/Gold, Nickel Plating                                                                                                                       | Copper Alloy/Gold, Tin Plating                                                                                                                          | Copper Alloy/Gold, Tin Plating                                                                                                                          |
| Contact Milivolt Drop    | 100 mV drop max at 13A current                                                                                                                          | 2,4,6,8,12 and 18 pos: 100mV drop max at 13A current<br>13 (11+2) pos: 100mV drop max at 13A/25A current                                                | 100 mV drop max at 13A current                                                                                                                          |
| Contact Termination      | Direct Solder                                                                                                                                           | Direct Solder                                                                                                                                           | Direct Solder                                                                                                                                           |
| Contact Types            | Machined, PC Tail                                                                                                                                       | Machined, PC Tail                                                                                                                                       | Machined, PC Tail                                                                                                                                       |
| Dielectric Value         | Less than 2 milliamps current leakage @ 1500 volts AC                                                                                                   | Less than 2 milliamps current leakage @ 1500 volts AC                                                                                                   | Less than 2 milliamps current leakage @ 1500 volts AC                                                                                                   |
| Housing Material         | Thermoplastic                                                                                                                                           | Thermoplastic                                                                                                                                           | Thermoplastic                                                                                                                                           |
| Insulation Resistance    | 1000 megohms minimum at 25°C                                                                                                                            | 1000 megohms minimum at 25°C                                                                                                                            | 1000 megohms minimum at 25°C                                                                                                                            |
| IP Rating                | IP67 mated condition                                                                                                                                    | IP67 mated condition                                                                                                                                    | IP67 mated condition                                                                                                                                    |
| Keying Options           | Available in 8, 12 and 18 pos only                                                                                                                      | Available in 6, 8, 12 and 18 pos only                                                                                                                   | Available in 6, 8, 12 pos only                                                                                                                          |
| Mating Cycles            | 100 Cycles                                                                                                                                              | 100 Cycles                                                                                                                                              | 100 Cycles                                                                                                                                              |
| Operating Voltage        | 250 VDC                                                                                                                                                 | 250 VDC                                                                                                                                                 | 250 VDC                                                                                                                                                 |
| Seal Material            | n/a                                                                                                                                                     | Silicone Rubber                                                                                                                                         | n/a                                                                                                                                                     |
| Temperature Range        | -55°C to +125°C at rated current                                                                                                                        | -55°C to +125°C at rated current                                                                                                                        | -55°C to +125°C at rated current                                                                                                                        |
| Shock                    | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   |
| Thermal Shock            | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               |
| Vibration                | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) |

**BoardLock™ Family Comparison Chart, cont.**

| Series                   | <b>BL BoardLock™ ATHD</b>                                                                                                                               | <b>BL BoardLock™ ATFHD13</b>                                                                                                                            | <b>BL BoardLock™ ATM13/15</b>                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image                    |                                                                                                                                                         |                                                                                                                                                         |                                                                                                                                                         |
| Positions                | Single Position                                                                                                                                         | Single Position                                                                                                                                         | 2, 3, 4, 6, 8, and 12                                                                                                                                   |
| Current Rating           | 25A to 100A                                                                                                                                             | 25A to 100A                                                                                                                                             | 7.5A                                                                                                                                                    |
| Pin Orientation          | Straight                                                                                                                                                | 90° Right Angle                                                                                                                                         | <b>ATM13:</b> 90° Right Angle / <b>ATM15:</b> Straight                                                                                                  |
| Mounting Type            | Self-Threading                                                                                                                                          | Snap-Fit or Self-Threading                                                                                                                              | Self-Threading                                                                                                                                          |
| Flange                   | Flangeless                                                                                                                                              | Flangeless                                                                                                                                              | Flanged                                                                                                                                                 |
| Contact Material/Plating | Copper Alloy/Gold, Nickel, Tin Plating                                                                                                                  | Copper Alloy/Gold, Tin Plating                                                                                                                          | Copper Alloy/Gold, Tin Plating                                                                                                                          |
| Contact Millivolt Drop   | 100 mV drop max at 100A current                                                                                                                         | 100 mV drop max at 100A current                                                                                                                         | 100 mV drop max at 7.5A current                                                                                                                         |
| Contact Termination      | Direct Solder                                                                                                                                           | Direct Solder                                                                                                                                           | Direct Solder                                                                                                                                           |
| Contact Types            | Machined, PC Tail                                                                                                                                       | Machined, PC Tail                                                                                                                                       | Machined, PC Tail                                                                                                                                       |
| Dielectric Value         | Less than 2 milliamps current leakage @ 3000 volts AC                                                                                                   | Less than 2 milliamps current leakage @ 3000 volts AC                                                                                                   | Less than 2 milliamps current leakage @ 1500 volts AC                                                                                                   |
| Housing Material         | Thermoplastic                                                                                                                                           | Thermoplastic                                                                                                                                           | Thermoplastic                                                                                                                                           |
| Insulation Resistance    | 1000 megohms minimum at 25°C                                                                                                                            | 1000 megohms minimum at 25°C                                                                                                                            | 1000 megohms minimum at 25°C                                                                                                                            |
| IP Rating                | IP68/69K (Mated) See datasheets                                                                                                                         | IP67/IP69K (Mated) See datasheets                                                                                                                       | IP67 (Mated) See datasheets                                                                                                                             |
| Keying Options           | Not Applicable                                                                                                                                          | Not Applicable                                                                                                                                          | Available in 8, 12 pos only                                                                                                                             |
| Mating Cycles            | 100 Cycles                                                                                                                                              | 100 Cycles                                                                                                                                              | 100 Cycles                                                                                                                                              |
| Operating Voltage        | 250V to 500V                                                                                                                                            | 250V to 500V                                                                                                                                            | 250 VDC                                                                                                                                                 |
| Seal Material            | Silicone Rubber                                                                                                                                         | Silicone Rubber                                                                                                                                         | Silicone Rubber                                                                                                                                         |
| Temperature Range        | -55°C to +125°C at rated current                                                                                                                        | -55°C to +125°C at rated current                                                                                                                        | -55°C to +125°C at rated current                                                                                                                        |
| Shock                    | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   |
| Thermal Shock            | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               |
| Vibration                | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) |

**BoardLock™ Family Comparison Chart, cont.**

| Series                   |  <b>BoardLock™ ATP</b>                                                 |  <b>BoardLock™ ATP13/15</b>                                            |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image                    |                                                                        |                                                                       |
| Positions                | 2, 4 and 6                                                                                                                                              | 2 and 4                                                                                                                                                 |
| Current Rating           | 25A                                                                                                                                                     | 25A                                                                                                                                                     |
| Pin Orientation          | Straight                                                                                                                                                | <b>ATP13:</b> 90° Right Angle / <b>ATP15:</b> Straight                                                                                                  |
| Mounting Type            | Snap-Fit or Self-Threading                                                                                                                              | Self-Threading                                                                                                                                          |
| Flange                   | Flangeless                                                                                                                                              | Flanged                                                                                                                                                 |
| Contact Material/Plating | Copper Alloy/Gold, Tin Plating                                                                                                                          | Copper Alloy/Gold, Tin Plating                                                                                                                          |
| Contact Millivolt Drop   | 100 mV drop max at 25A current                                                                                                                          | 100 mV drop max at 25A current                                                                                                                          |
| Contact Termination      | Direct Solder                                                                                                                                           | Direct Solder                                                                                                                                           |
| Contact Types            | Machined, PC Tail                                                                                                                                       | Machined, PC Tail                                                                                                                                       |
| Dielectric Value         | Less than 2 milliamps current leakage @ 1500 volts AC                                                                                                   | Less than 2 milliamps current leakage @ 1500 volts AC                                                                                                   |
| Housing Material         | Thermoplastic                                                                                                                                           | Thermoplastic                                                                                                                                           |
| Insulation Resistance    | 1000 megohms minimum at 25°C                                                                                                                            | 1000 megohms minimum at 25°C                                                                                                                            |
| IP Rating                | IP67 (Mated) See datasheets                                                                                                                             | IP68 (1M in water for 24 hrs) (Mated) See datasheets                                                                                                    |
| Keying Options           | Not Applicable                                                                                                                                          | Not Applicable                                                                                                                                          |
| Mating Cycles            | 100 Cycles                                                                                                                                              | 100 Cycles                                                                                                                                              |
| Operating Voltage        | 250 VDC                                                                                                                                                 | 250 VDC                                                                                                                                                 |
| Seal Material            | Silicone Rubber                                                                                                                                         | Silicone Rubber                                                                                                                                         |
| Temperature Range        | -55°C to +125°C at rated current                                                                                                                        | -55°C to +125°C at rated current                                                                                                                        |
| Shock                    | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                   |
| Thermal Shock            | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               | Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector               |
| Vibration                | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) | Continued continuity without degradation to mechanical or physical attributes following vibration. (Max acceleration 20 g's at Sine sweep of 10-2000Hz) |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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## Dual-Locking, Heavy-Duty Power & Signal Connectors

Available in 38 position (6 x Power/32 x Signal Configuration)

Amphenol Sine Systems' **DuraLok™ Dual-Locking Connectors** are high-density, heavy-duty, environmentally-sealed connectors available in both Plugs and Receptacles. The robust, integrated locking lever, built directly into the Plug housing, ensures a secure mating with the Receptacle every time.

All Plugs and Receptacles are IP67/69K rated (mated).



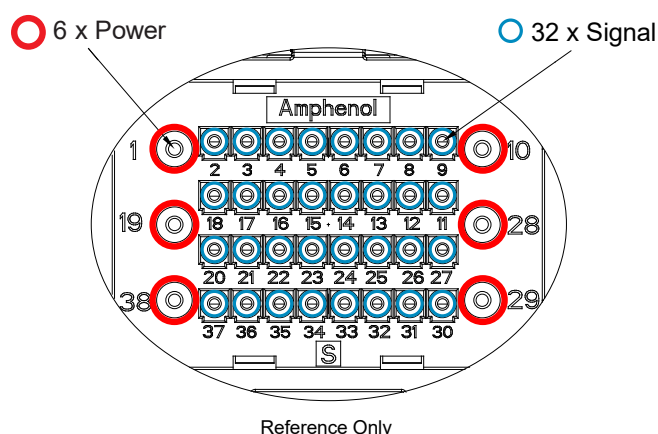
### Key Features

- Integrated Locking Lever
- Combined Power & Signal In One
- A, B & C Keying Options

**Applications:** Heavy Equipment, Agriculture, Construction, Transportation, Off-Road, Mining, Industrial, Railway, Automotive, Diagnostics, Marine, Water Resistance, Harsh Environments

### Technical Specifications

|                                               |                                                   |
|-----------------------------------------------|---------------------------------------------------|
| Temperature Range                             | -40°C to +125°C                                   |
| Max. Current (AMP)                            | 13A (Power), 5A (Signal)                          |
| Voltage Rating (AC/DC)                        | 250V                                              |
| IP Rating                                     | IP67/69K (mated)                                  |
| Min. Mating Cycles                            | > 500                                             |
| Dielectric Value                              | Less than 2 mA current leakage @2000V AC          |
| Insulation Resistance                         | 500 megohms minimum                               |
| Contact Type                                  | Stamped & Formed                                  |
| Contact Material                              | Copper Alloy                                      |
| Contact Plating                               | Tin (Standard); Gold or Nickel Plating (Optional) |
| Body Material (Shell, Locking Lever, End Cap) | Thermoplastic UL94 V-0                            |
| Wire Seal/Gasket                              | Silicone Rubber                                   |
| RoHS                                          | Compliant                                         |

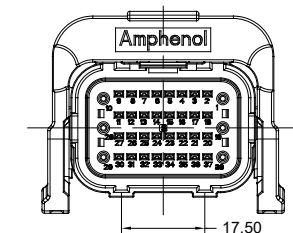
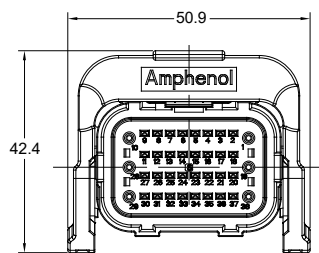


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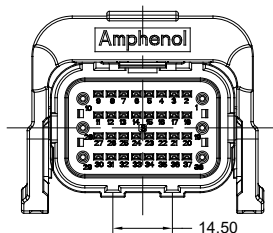
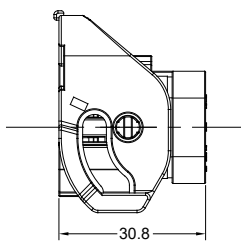


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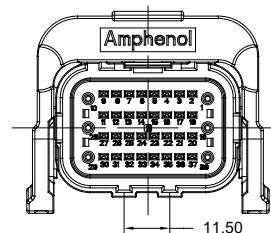
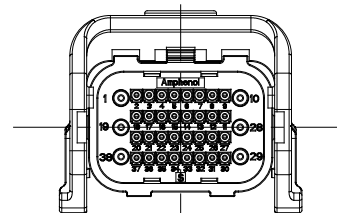
DuraLok™ Plug Dimensions (in mm) & Keying Options (A, B and C)



Plug - Key A (ATV06-38SA-Sx)

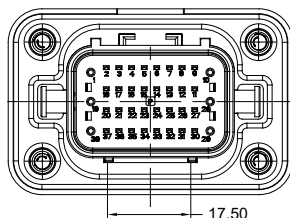
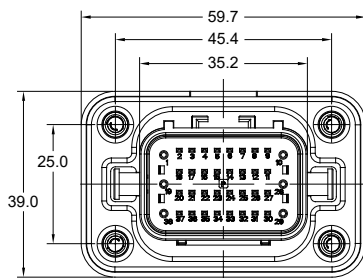


Plug - Key B (ATV06-38SB-Sx)

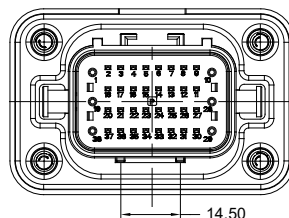
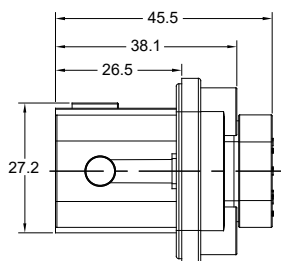


Plug - Key C (ATV06-38SC-Sx)

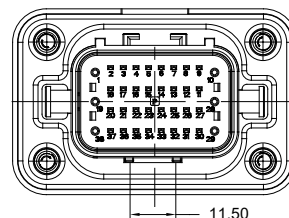
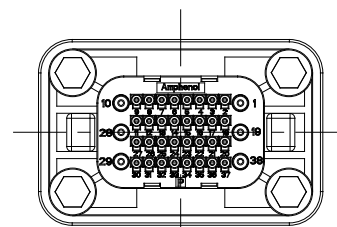
DuraLok™ Receptacle Dimensions (in mm) & Keying Options (A, B and C)



Receptacle - Key A (ATV04-38PA-Sx)

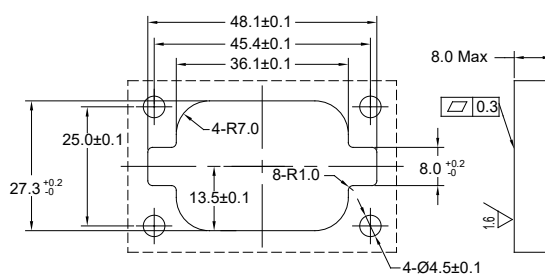


Receptacle - Key B (ATV04-38PB-Sx)



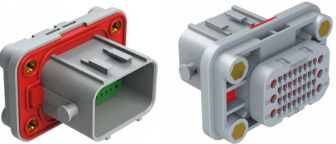
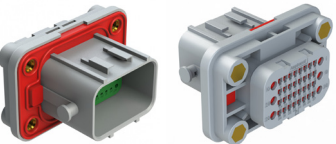
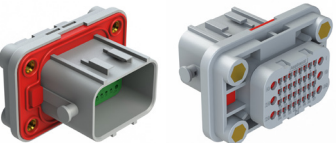
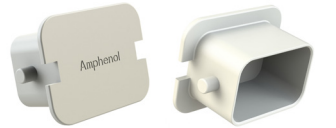
Receptacle - Key C (ATV04-38PC-Sx)

DuraLok™ Receptacle Panel Cutout Dimensions (in mm)



Receptacle - Panel Cutout



| Image                                                                              | Part Number   | Description                                                                            | Wire Range                                               | Amp | Volt |
|------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------|----------------------------------------------------------|-----|------|
|    | ATV06-38SA-S2 | 38 Position, Plug, Socket, DuraLok™, Power and Signal, Standard Seal, Keyed A, Grey    | 20AWG (Ø1.5-1.8mm) Signal<br>14-22AWG (Ø1.6-2.8mm) Power | 13A | 250V |
|    | ATV04-38PA-S2 | 38 Position, Receptacle, Pin, DuraLok™, Power and Signal, Standard Seal, Keyed A, Grey | 20AWG (Ø1.5-1.8mm) Signal<br>14-22AWG (Ø1.6-2.8mm) Power | 13A | 250V |
|    | ATV06-38SB-S2 | 38 Position, Plug, Socket, DuraLok™, Power and Signal, Standard Seal, Keyed B, Grey    | 20AWG (Ø1.5-1.8mm) Signal<br>14-22AWG (Ø1.6-2.8mm) Power | 13A | 250V |
|   | ATV04-38PB-S2 | 38 Position, Receptacle, Pin, DuraLok™, Power and Signal, Standard Seal, Keyed B, Grey | 20AWG (Ø1.5-1.8mm) Signal<br>14-22AWG (Ø1.6-2.8mm) Power | 13A | 250V |
|  | ATV06-38SC-S2 | 38 Position, Plug, Socket, DuraLok™, Power and Signal, Standard Seal, Keyed C, Grey    | 20AWG (Ø1.5-1.8mm) Signal<br>14-22AWG (Ø1.6-2.8mm) Power | 13A | 250V |
|  | ATV04-38PC-S2 | 38 Position, Receptacle, Pin, DuraLok™, Power and Signal, Standard Seal, Keyed C, Grey | 20AWG (Ø1.5-1.8mm) Signal<br>14-22AWG (Ø1.6-2.8mm) Power | 13A | 250V |
|  | PL000761      | Dust Cap for Recep, DuraLok™, White                                                    | -                                                        | -   | -    |
|  | PL000762      | Dust Cap for Plug, DuraLok™, White                                                     | -                                                        | -   | -    |

| Image                                                                               | Part Number | Description                                                                                                                                                                                                         | Wire Range                              | Amp |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----|
|    | SC000571T   | Pin Contact, Stamped & Formed, Signal, Size 1.0x0.64mm, Tin Plating<br>*Commonly Stocked Contacts                                                                                                                   | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 5A  |
|    | SC000572T   | Socket Contact, Stamped & Formed, Signal, Size 1.0x0.64mm, Tin Plating<br>*Commonly Stocked Contacts                                                                                                                | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 5A  |
|    | SC000571F   | Pin Contact, Stamped & Formed, Signal, Size 1.0x0.64mm, Gold Flash                                                                                                                                                  | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 5A  |
|    | SC000572F   | Socket Contact, Stamped & Formed, Signal, Size 1.0x0.64mm, Gold Flash                                                                                                                                               | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 5A  |
|    | SC000571Gx  | Pin Contact, Stamped & Formed, Signal, Size 1.0x0.64mm, Gold Plating<br><b>G5</b> = 5μ" Gold Plating; <b>G10</b> = 10μ" Gold Plating<br><b>G15</b> = 15μ" Gold Plating; <b>G30</b> = 30μ" Gold Plating              | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 5A  |
|  | SC000572Gx  | Socket Contact, Stamped & Formed, Signal, Size 1.0x0.64mm, Gold Plating<br><b>G5</b> = 5μ" Gold Plating; <b>G10</b> = 10μ" Gold Plating<br><b>G15</b> = 15μ" Gold Plating; <b>G30</b> = 30μ" Gold Plating           | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 5A  |
|  | SC000571N   | Pin Contact, Stamped & Formed, Signal, Size 1.0x0.64mm, Nickel Plating                                                                                                                                              | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 5A  |
|  | SC000572N   | Socket Contact, Stamped & Formed, Signal, Size 1.0x0.64mm, Nickel Plating                                                                                                                                           | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 5A  |
|  | SP14M2F     | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Gold Flash over Nickel<br>*Commonly Stocked Contacts                                                                                                               | 14-16AWG<br>(2.0-2.5mm <sup>2</sup> )   | 13A |
|  | SS14M2F     | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Gold Flash over Nickel<br>*Commonly Stocked Contacts                                                                                                            | 14-16AWG<br>(2.0-2.5mm <sup>2</sup> )   | 13A |
|  | SP14M2Gx    | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Gold over Nickel<br><b>G5</b> = 5μ" Gold over Nickel; <b>G10</b> = 10μ" Gold over Nickel<br><b>G15</b> = 15μ" Gold over Nickel; <b>G30</b> = 30μ" Gold over Nickel | 14-16AWG<br>(2.0-2.5mm <sup>2</sup> )   | 13A |

| Image                                                                               | Part Number | Description                                                                                                                                                                                                            | Wire Range                 | Amp |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|
|    | SS14M2Gx    | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Gold over Nickel<br><b>G5</b> = 5µ" Gold over Nickel; <b>G10</b> = 10µ" Gold over Nickel<br><b>G15</b> = 15µ" Gold over Nickel; <b>G30</b> = 30µ" Gold over Nickel | 14-16AWG<br>(2.0-2.5mm²)   | 13A |
|    | SP14M2T     | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Tin over Nickel                                                                                                                                                       | 14-16AWG<br>(2.0-2.5mm²)   | 13A |
|    | SS14M2T     | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Tin over Nickel                                                                                                                                                    | 14-16AWG<br>(2.0-2.5mm²)   | 13A |
|    | SP16M2F     | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Gold Flash over Nickel<br>*Commonly Stocked Contacts                                                                                                                  | 16-18AWG<br>(0.75-1.5mm²)  | 13A |
|   | SS16M2F     | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Gold Flash over Nickel<br>*Commonly Stocked Contacts                                                                                                               | 16-18AWG<br>(0.75-1.5mm²)  | 13A |
|  | SP16M2Gx    | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Gold over Nickel<br><b>G5</b> = 5µ" Gold over Nickel; <b>G10</b> = 10µ" Gold over Nickel<br><b>G15</b> = 15µ" Gold over Nickel; <b>G30</b> = 30µ" Gold over Nickel    | 16-18AWG<br>(0.75-1.5mm²)  | 13A |
|  | SS16M2Gx    | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Gold over Nickel<br><b>G5</b> = 5µ" Gold over Nickel; <b>G10</b> = 10µ" Gold over Nickel<br><b>G15</b> = 15µ" Gold over Nickel; <b>G30</b> = 30µ" Gold over Nickel | 16-18AWG<br>(0.75-1.5mm²)  | 13A |
|  | SP16M2T     | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Tin over Nickel                                                                                                                                                       | 16-18AWG<br>(0.75-1.5mm²)  | 13A |
|  | SS16M2T     | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Tin over Nickel                                                                                                                                                    | 16-18AWG<br>(0.75-1.5mm²)  | 13A |
|  | SP20M2F     | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Gold Flash over Nickel<br>*Commonly Stocked Contacts                                                                                                                  | 20-22AWG<br>(0.34-0.50mm²) | 13A |

| Image                                                                             | Part Number | Description                                                                                                                                                                                                            | Wire Range                              | Amp |
|-----------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----|
|  | SS20M2F     | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Gold Flash over Nickel<br>*Commonly Stocked Contacts                                                                                                               | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 13A |
|  | SP20M2Gx    | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Gold over Nickel<br><b>G5</b> = 5μ" Gold over Nickel; <b>G10</b> = 10μ" Gold over Nickel<br><b>G15</b> = 15μ" Gold over Nickel; <b>G30</b> = 30μ" Gold over Nickel    | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 13A |
|  | SS20M2Gx    | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Gold over Nickel<br><b>G5</b> = 5μ" Gold over Nickel; <b>G10</b> = 10μ" Gold over Nickel<br><b>G15</b> = 15μ" Gold over Nickel; <b>G30</b> = 30μ" Gold over Nickel | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 13A |
|  | SP20M2T     | Pin Contact, Stamped & Formed, Size 16, 3 Tangs, Tin Plating over Nickel                                                                                                                                               | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 13A |
|  | SS20M2T     | Socket Contact, Stamped & Formed, Size 16, 3 Tangs, Tin Plating over Nickel                                                                                                                                            | 20-22AWG<br>(0.34-0.50mm <sup>2</sup> ) | 13A |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# DM Dura|Mate™ Family



## Environmentally-Sealed, Multi-Pin, Heavy-Duty, Plastic or Metal Circular Connectors

Amphenol Sine Systems' **DuraMate™ Family** of environmentally-sealed, multi-pin, heavy duty, plastic (AHDP) or metal (AHDM/AHDBM) circular connectors provide an economical, quick-connect, bayonet-locking system manufactured to withstand the challenges and complexities of harsh-environment, off-road applications. Our ISOBUS products specifically meet ISO 11783 standards (for control and communications between tractors, implements and software) for agricultural applications.

Currently available in the following Series:

**DM Dura|Mate™ AHDP** **DM Dura|Mate™ AHDM**

**DM Dura|Mate™ AHDP ISOBUS 91 Series** **DM Dura|Mate™ AHDM/AHDBM ISOBUS 91 Series**

**DuraMate™ AHDP** (Pgs 3-7): Size 18 with 8 insert arrangements 2, 6, 8, 14(x3), 20 and 21

Size 24 with 13 insert arrangements 7(x2), 9, 16, 18, 19, 21, 23, 27, 29, 31, 35 and 47

**DuraMate™ AHDM** (Pgs 8-11): Size 18 with 6 insert arrangements 2, 6, 8, 14, 20 and 21

Size 24 with 13 insert arrangements 7(x2), 9, 16, 18, 19, 21, 23, 27, 29, 31, 35 and 47

**DuraMate™ AHDP ISOBUS 91** (Pgs 12-16): Size 24, 9 Position

**DuraMate™ AHDM/AHDBM ISOBUS 91** (Pgs 17-22): Size 24, 9 Position

### Key Features

- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High current configurations incorporating revolutionary RADSOK® contacts
- High strength impact resistant & lightweight thermoplastic or zinc-alloy metal housings
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Environmentally-sealed and engineered rapid and secure mating system achieves IP68/IP69K protection (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistant
- Sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges
- Wire entry sealing available in three separate ranges for discrete wire applications
- Wide Thread Adapters (WTA) provide an enhanced threading for use with our wide variety of screw-on or clamshell backshells (AHDP Only)
- Smooth Ring Adapters (SRA) are designed for use without backshells for a smaller footprint (AHDP Only)
- Backshell Ring Adapters (BRA) allow for use with other compatible industry-standard snap-on backshells (AHDP Only)
- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)



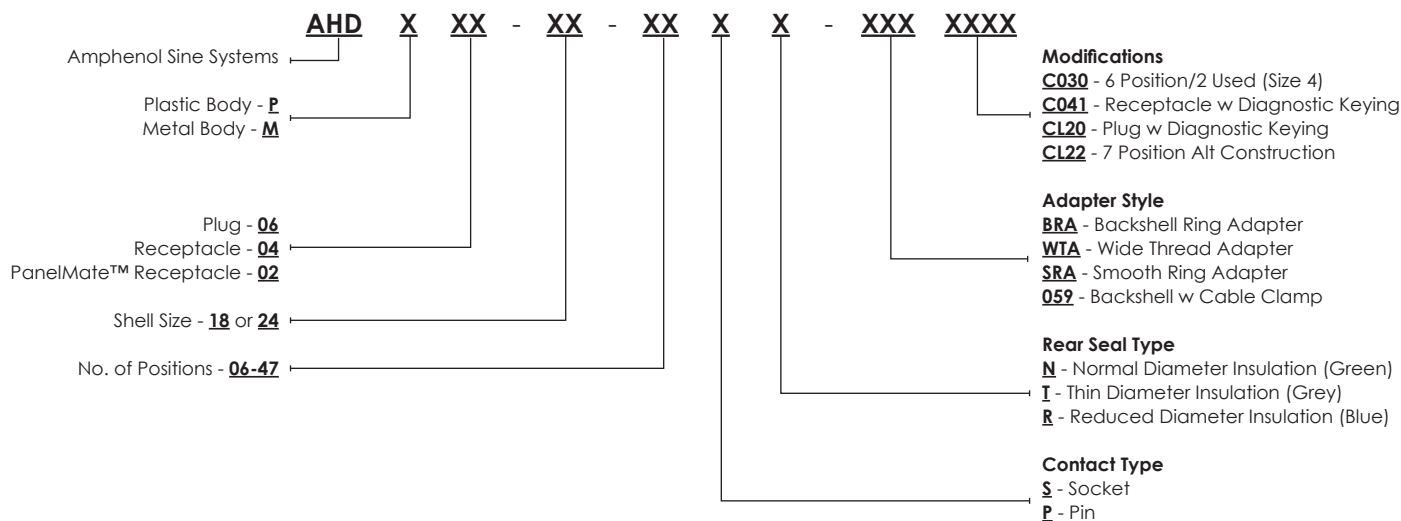
**A Series™ Family**



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DuraMate™ AHDM/AHDP Series - Part Numbering Sequence



DuraMate™ AHDP/AHDM Series - Sample Layouts



**AHD P06-18-20SN-SRA**

Size 18, 20 Pos, Plug, Socket, DuraMate™ AHDP Series, Plastic, Normal Seal, Smooth Ring Adapter



**AHD P02-18-08PR-WTA**

Size 18, 8 Pos, Receptacle with Flange, Pin, DuraMate™ AHDP with PanelMate™, Plastic, Reduced Seal, Wide Thread Adapter



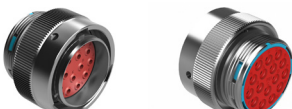
**AHD P04-18-06PN-BRA**

Size 18, 6 Position, Receptacle, Pin, DuraMate™ AHDP, Plastic, Normal Seal, Backshell Ring Adapter (BRA) (Green)



**AHDM 04-18-08SN**

Size 18, 8 Pos, Receptacle, Socket, DuraMate™ AHDM Series, Metal Body, Normal Seal, Wide Thread Adapter



**AHDM 06-24-16PR**

Size 18, 16 Pos, Plug, Pin, DuraMate™ AHDM Series, Metal Body, Reduced Seal, Wide Thread Adapter



**AHDM 06-18-14SR-059**

Size 18, 14 Pos, Plug, Socket, DuraMate™ AHDM Series, Metal Body, Reduced Seal, Backshell with Cable Clamp





# DM DuraMate™ AHDP

## Environmentally-Sealed, Multi-Pin, Heavy-Duty, Plastic, Circular Connectors

Available in Size 18 with 8 insert arrangements 2, 6, 8, 14(x3), 20 and 21

Available in Size 24 with 13 insert arrangements 7(x2), 9, 16, 18, 19, 21, 23, 27, 29, 31, 35 and 47

The DuraMate™ AHDP environmentally-sealed, multi-pin, heavy duty, plastic, circular connector series provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications.

- 3 keyway bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- High current configurations incorporating revolutionary RADSOK® contacts
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges.
- Wire entry sealing available in four separate ranges for discrete wire applications
- Wide Thread Adapters (WTA) provide an enhanced threading for use with our wide variety of screw-on or clamshell backshells
- Smooth Ring Adapters (SRA) are designed for use without backshells for a smaller footprint
- Backshell Ring Adapters (BRA) allow for use with other compatible industry-standard snap-on backshells
- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)



### DuraMate™ AHDP - Material & Performance Specifications

|                                 |                                                                                   |                   |                         |
|---------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------|
| Current Rating per Contact      | Size 4 - 100A<br>Size 8 - 86A<br>Size 12 - 25A<br>Size 16 - 13A<br>Size 20 - 7.5A | Housing Material  | Thermoplastic           |
| Operating Temperature           | -55°C to +125°C                                                                   | Insulation Insert | Thermoplastic           |
| Dielectric Withstanding Voltage | Current Leakage -2mA at 1500 VAC                                                  | Seal              | Silicone Rubber         |
| Degree of Protection            | IP68/69K (in mated condition)                                                     | Contact           | A Series™ Common System |
| Mating Cycle Durability         | 100 Cycles                                                                        | Compliance        | RoHS                    |



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DuraMate™ AHDP - Insert Arrangements <sup>(1)</sup> C030 - 6 Position/2 Used (Size 4); <sup>(2)</sup> C041 - Receptacle w Diagnostic Keying; <sup>(3)</sup> CL20 - Plug w Diagnostic Keying; <sup>(4)</sup> CL22 - 7 Position Alt Construction)

| Size 18                          | Size 18                      | Size 18            | Size 18             | Size 18                            | Size 18                            | Size 18                        | Size 18             |
|----------------------------------|------------------------------|--------------------|---------------------|------------------------------------|------------------------------------|--------------------------------|---------------------|
| 18-06 <sup>(1)</sup><br>2 Size 4 | 18-06<br>2 Size 4, 4 Size 16 | 18-08<br>8 Size 12 | 18-14<br>14 Size 16 | 18-14 <sup>(2)</sup><br>14 Size 16 | 18-14 <sup>(3)</sup><br>14 Size 16 | 18-20<br>2 Size 16, 18 Size 20 | 18-21<br>21 Size 20 |
|                                  |                              |                    |                     |                                    |                                    |                                |                     |
| Normal                           | Normal                       | Normal             | Reduced             | Normal                             | Reduced                            | Normal                         | Reduced             |

| Size 24                                  | Size 24                                     | Size 24                                  | Size 24             | Size 24                                    | Size 24                        | Size 24                        | Size 24             | Size 24                        | Size 24                                     |
|------------------------------------------|---------------------------------------------|------------------------------------------|---------------------|--------------------------------------------|--------------------------------|--------------------------------|---------------------|--------------------------------|---------------------------------------------|
| 24-07<br>1 Size 8 (RADSOX®)<br>6 Size 12 | 24-07 <sup>(4)</sup><br>3 Size 4, 4 Size 16 | 24-09<br>1 Size 4, 2 Size 8<br>6 Size 12 | 24-16<br>16 Size 12 | 24-18<br>1 Size 8, 3 Size 12<br>14 Size 16 | 24-19<br>6 Size 12, 13 Size 16 | 24-21<br>4 Size 12, 17 Size 16 | 24-23<br>23 Size 16 | 24-27<br>4 Size 12, 23 Size 16 | 24-29<br>4 Size 12, 19 Size 16<br>6 Size 20 |
|                                          |                                             |                                          |                     |                                            |                                |                                |                     |                                |                                             |
| Normal                                   | Normal                                      | Reduced                                  | Normal              | Reduced                                    | Normal                         | Reduced                        | Normal              | Reduced                        | Reduced                                     |

| Size 24             | Size 24                        | Size 24                        |
|---------------------|--------------------------------|--------------------------------|
| 24-31<br>31 Size 16 | 24-35<br>3 Size 16, 32 Size 20 | 24-47<br>5 Size 16, 42 Size 20 |
|                     |                                |                                |
| Reduced             | Thin                           | Reduced                        |

| Contact Legend (Size/Max. Current) |       |                  |        |        |         |
|------------------------------------|-------|------------------|--------|--------|---------|
|                                    |       |                  |        |        |         |
| 4+/100A<br>4/100A                  | 8/60A | 8/86A<br>RADSOX® | 12/25A | 16/13A | 20/7.5A |

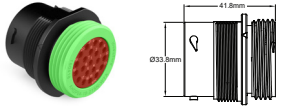
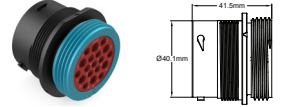
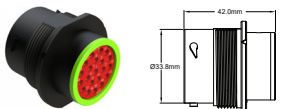
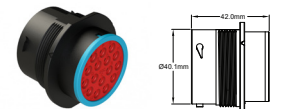
DuraMate™ AHDP - Recommended Wire Insulation Overall Diameter (OD) <sup>4+</sup> contact is only available for 24-07CL22

| Contact Size | Typical Wire Range     | Normal Seal                | Thin Seal                 | Reduced Seal (See datasheets) |                            |
|--------------|------------------------|----------------------------|---------------------------|-------------------------------|----------------------------|
| 4+           | 4AWG (25.0-21.0mm²)    | 7.9-10.67mm (0.311-0.420") | -                         | -                             | -                          |
| 4            | 6AWG (16.0-13.0mm²)    | 6.63-7.41mm (0.261-0.292") | -                         | 6.63-7.41mm (0.261-0.292")    | -                          |
| 8            | 8-10AWG (10.0-5.0mm²)  | 4.83-6.10mm (0.190-0.240") | -                         | 3.43-5.59mm (0.135-0.220")    | -                          |
| 12           | 10-14AWG (6.0-2.0mm²)  | 3.43-4.32mm (0.1350-.170") | -                         | 2.46-4.01mm (0.135-0.158")    | 2.46-4.01mm (0.135-0.158") |
| 16           | 14-20AWG (2.0-0.5mm²)  | 2.54-3.40mm (0.100-0.134") | 2.23-2.69mm (0.088-.106") | 1.35-3.05mm(0.053-0.120")     | 1.35-2.62mm (0.053-0.103") |
| 20           | 16-22AWG (1.5-0.35mm²) | 1.02-2.41mm (0.040-.095")  | -                         | 1.02-02.41mm (0.040-0.095")   | 1.02-2.10mm (0.040-0.083") |

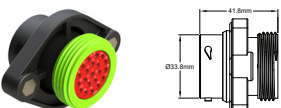
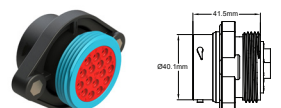
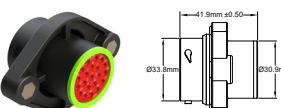
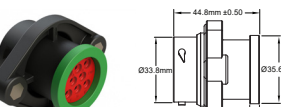
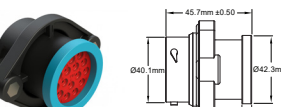
DuraMate™ AHDP - Backshell Options and Accessory Overview



DuraMate™ AHDP - Plug & Receptacle Options (Dimensions in mm)

| Size 18 Plug                                                                                                      | Size 18 Receptacle                                                                                                | Size 24 Plug                                                                                                       | Size 24 Receptacle                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Wide Thread Adapter (WTA)<br>    | Wide Thread Adapter (WTA)<br>    | Wide Thread Adapter (WTA)<br>    | Wide Thread Adapter (WTA)<br>    |
| Smooth Ring Adapter (SRA)<br>    | Smooth Ring Adapter (SRA)<br>    | Smooth Ring Adapter (SRA)<br>    | Smooth Ring Adapter (SRA)<br>    |
| Backshell Ring Adapter (BRA)<br> | Backshell Ring Adapter (BRA)<br> | Backshell Ring Adapter (BRA)<br> | Backshell Ring Adapter (BRA)<br> |

DuraMate™ AHDP w PanelMate™ - Receptacle Options (Dimensions in mm)

| Size 18 Plug | Size 18 Receptacle                                                                                                                  | Size 24 Plug | Size 24 Receptacle                                                                                                                    |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| -            | PanelMate™ with Wide Thread Adapter (WTA)<br>     | -            | PanelMate™ with Wide Thread Adapter (WTA)<br>     |
| -            | PanelMate™ with Smooth Ring Adapter (SRA)<br>    | -            | PanelMate™ with Smooth Ring Adapter (SRA)<br>    |
| -            | PanelMate™ with Backshell Ring Adapter (BRA)<br> | -            | PanelMate™ with Backshell Ring Adapter (BRA)<br> |

## DuraMate™ AHDP - Backshell Options and Accessories

| Image                                                                               | Part Number        | Description                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | AHDPBS-015-1805    | Size 18, Backshell, Conduit, Snap Over, Right Angle 90°, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-18NUT Adapter |
|                                                                                     | AHDPBS-15L017-1805 | Size 18, Backshell, Conduit, Snap-Over, Right Angle 180°, DuraMate™ AHDP<br><b>Note:</b> For use with Backshell Ring Adapter (BRA)                                                                |
|                                                                                     | AHDPBS-011-2405    | Size 24, Backshell, Conduit, Snap Over, Right Angle 90°, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-24NUT Adapter |
|                                                                                     | AHDPBS-11L017-2405 | Size 24, Backshell, Conduit, Snap-Over, Right Angle 180°, DuraMate™ AHDP<br><b>Note:</b> For use with Backshell Ring Adapter (BRA)                                                                |
|    | AHDPBS-016-1805    | Size 18, Backshell, Conduit, Snap Over, Straight 180°, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-18NUT Adapter   |
|                                                                                     | AHDPBS-16L017-1805 | Size 18, Backshell, Conduit, Snap-Over, Straight, DuraMate™ AHDP<br><b>Note:</b> For use with Backshell Ring Adapter (BRA)                                                                        |
|                                                                                     | AHDPBS-010-2405    | Size 24, Backshell, Conduit, Snap Over, Straight 180°, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-24NUT Adapter   |
|                                                                                     | AHDPBS-10L017-2405 | Size 24, Backshell, Conduit, Snap-Over, Straight, DuraMate™ AHDP<br><b>Note:</b> For use with Backshell Ring Adapter (BRA)                                                                        |
|   | AHDPBS-0406-001    | Size 24, Backshell, Tie Wrap, Wide Thread Adapter (WTA), DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA)                                                                    |
|                                                                                     | AHDPBS-18-001      | Size 18, Backshell, Tie Wrap, Wide Thread Adapter (WTA), Cable Diameter Range 14.5mm - 18.0mm, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA)                              |
|  | AHDPBS-0406-002    | Size 24, Backshell, Wide Thread Adapter (WTA), 2 PC, Compression Nut Cable Diameter Range 14.5mm - 18.0mm, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA)                  |
|                                                                                     | AHDPBS-0406-003    | Size 24, Backshell, Wide Thread Adapter (WTA), 2 PC, Compression Nut Cable Diameter Range 19.5mm - 24.1mm, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA)                  |
|                                                                                     | AHDPBS-18-002      | Size 18, Backshell, Wide Thread Adapter (WTA), 2PC, Compression Nut Cable Diameter Range 14.5mm-18.0mm, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA)                     |
|  | AHDPBS-0406-SM01   | Size 24, Backshell, Sealed, Cable Grommet, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA)                                                                                  |
|                                                                                     | AHDPBS-18-SM01     | Size 18, Backshell, Sealed, Cable Grommet, DuraMate™ AHDP<br><b>Note:</b> For use with Wide Thread Adapter (WTA)                                                                                  |
|  | AHDC06-24          | Size 24, Receptacle Cap, Sealed, DuraMate™ AHDP                                                                                                                                                   |
|                                                                                     | AHDC06-18          | Size 18, Receptacle Cap, Sealed, DuraMate™ AHDP                                                                                                                                                   |
|  | AHDC04-24          | Size 24, Plug Cap, Sealed, DuraMate™ AHDP                                                                                                                                                         |
|                                                                                     | AHDC04-18          | Size 18, Plug Cap, Sealed, DuraMate™ AHDP                                                                                                                                                         |



DuraMate™ AHDP - Backshell Options and Accessories, cont.

| Image                                                                               | Part Number   | Description                                                                |
|-------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------|
|    | AHDC04-24-PM  | Size 24, Plug Cap, Sealed, Threaded, DuraMate™ AHDP                        |
|    | AHDC04-24-PMT | Size 24, Plug Cap, w Tether, Threaded, Lock Washer, Sealed, DuraMate™ AHDP |
|    | AHDC04-24-T   | Size 24, Plug Cap, w Tether, Sealed, DuraMate™ AHDP                        |
|    | AHDP24-PN01   | Size 24, Panel Nut, Duramate™ AHDP                                         |
|                                                                                     | AHDP18-PN01   | Size 18, Panel Nut, DuraMate™ AHDP                                         |
|    | AT14-001-2486 | Size 24, Lock Washer, Wave, Duramate™ AHDP                                 |
|                                                                                     | AT14-002-1886 | Size 18, Lock Washer, Wave, DuraMate™ AHDP                                 |
|  | AHDP-16-04477 | Size 24, Rubber Flange Seal, Duramate™ AHDP                                |
|                                                                                     | AHDP-16-04978 | Size 18, Rubber Flange Seal, DuraMate™ AHDP                                |
|  | A114019       | Size 4, Blank Seal Plug                                                    |
|  | A114018       | Size 8, Blank Seal Plug                                                    |
|  | A114017       | Size 12/16, Blank Seal Plug                                                |
|  | AT13-217-1605 | Size 16, Locking Seal Plug                                                 |
|  | AT13-204-2005 | Size 20, Blank Seal Plug                                                   |
|   | AT11-027-0405 | Size 4+, Contact Removal Tool, 4AWG                                        |
|                                                                                     | AT114009      | Size 4, Contact Removal Tool, 6AWG                                         |
|                                                                                     | AT11-001-3.6M | Size 8, Contact Removal Tool, 7-10AWG                                      |
|                                                                                     | AT114008      | Size 8, Contact Removal Tool, 8-10AWG                                      |
|                                                                                     | AT11-337-1205 | Size 12, Contact Removal Tool, 12-14AWG                                    |
|                                                                                     | AT11-310-1605 | Size 16, Contact Removal Tool, 16-20AWG                                    |
|                                                                                     | AT11-240-2005 | Size 20, Contact Removal Tool, 20-22AWG                                    |



# DM DuraMate™ AHDP ISOBUS 91 Series

Environmentally-Sealed, Multi-Pin, Heavy-Duty, Plastic Circular ISOBUS Connectors

Available in Size 24, 9 Position

Amphenol Sine Systems' **DuraMate™ AHDP ISOBUS 91 Series** of environmentally-sealed, multi-pin, heavy duty, circular plastic (AHDP) plugs & receptacles provide an economical, quick-connect, circular bayonet locking system **designed to meet ISO 11783 standards (for control and communications between tractors, implements and software) and withstand the challenges and complexities of harsh environment, off-road, agricultural applications.**

## Key ISOBUS 91 Series Features

- + One-to-one alternative for all HDP20 parts
- + Compatible to other industry standard circular bayonet versions
- + AHDP 91 Series Plugs have a jumper (bridged contacts) between Pin 4 & 5
- + AHDP 91 Series Receptacles do not have a jumper (bridged contact)
- + Options for up to 6AWG/16mm² power wires
- + Full range of backshell options

## DuraMate™ Features

- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High-strength, impact resistant & lightweight thermoplastic housings
- Low-insertion force stamped terminals offer improved manufacturing efficiencies
- Environmentally-sealed and engineered rapid and secure mating system achieves IP67/IP69K protection (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistant
- Sealing features consisting of durable high-temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges
- Wire entry sealing available in four separate ranges for discrete wire applications
- Wide Thread Adapters (WTA) provides an enhanced threading for use with our wide variety of screw-on or clamshell backshells
- Smooth Ring Adapters (SRA) are designed for use without backshells for a smaller footprint
- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)



## DuraMate™ AHDP ISOBUS 91 Series - Material & Performance Specifications

|                                 |                                             |                   |                         |
|---------------------------------|---------------------------------------------|-------------------|-------------------------|
| Current Rating per Contact      | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | Housing Material  | Thermoplastic           |
| Operating Temperature           | -55°C to +125°C                             | Insulation Insert | Thermoplastic           |
| Dielectric Withstanding Voltage | Current Leakage -2mA at 1500 VAC            | Seal              | Silicone Rubber         |
| Degree of Protection            | IP68/69K (in mated condition)               | Contact           | A Series™ Common System |
| Mating Cycle Durability         | 100 Cycles                                  | Compliance        | RoHS                    |



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DuraMate™ AHDP ISOBUS 91 Series - Insert Arrangements

Size 24

24-09  
2 Size 8, 2 Size 12,  
5 Size 16

Normal

Reduced

Contact Legend (Size/Max. Current)

|               |                  |        |        |
|---------------|------------------|--------|--------|
|               |                  |        |        |
| 8/60A<br>6AWG | 8/60A<br>8-10AWG | 12/25A | 16/13A |

DuraMate™ AHDP ISOBUS 91 Series - Recommended Wire Insulation Overall Diameter (OD)

| Contact Size | Typical Wire Range    | Normal Seal                | Reduced Seal               | Reduced Seal for 6AWG/16mm²<br>(Size 8 Contacts Only) |
|--------------|-----------------------|----------------------------|----------------------------|-------------------------------------------------------|
| 8            | 6-10AWG (5.0-16.0mm²) | 4.83-6.10mm (0.190-0.240") | 3.43-5.59mm (0.135-0.220") | 6.50-7.42mm (0.256-0.292")                            |
| 12           | 10-14AWG (6.0-2.0mm²) | 3.40-4.32mm (0.134-0.170") | 2.46-4.01mm (0.135-0.158") | 2.46-4.01mm (0.135-0.158")                            |
| 16           | 14-20AWG (2.0-0.5mm²) | 2.54-3.40mm (0.100-0.134") | 1.35-3.05mm (0.053-0.120") | 1.35-3.05mm (0.053-0.120")z                           |

DuraMate™ AHDP ISOBUS 91 Series - Backshell Options and Accessory Overview

Protective Caps

Lockwashers/Panel Nuts/  
Rubber Flange Seals

Wide Variety of Backshell Options

Contact Removal Tools

Blank Seal Plugs

DuraMate™ AHDP ISOBUS 91 Series - Plug & Receptacle Options (Dimensions in mm)

| Size 24 Plug              | Size 24 Receptacle        | Size 24 Plug              | Size 24 Receptacle        |
|---------------------------|---------------------------|---------------------------|---------------------------|
| Wide Thread Adapter (WTA) | Wide Thread Adapter (WTA) | Smooth Ring Adapter (SRA) | Smooth Ring Adapter (SRA) |
|                           |                           |                           |                           |

## DuraMate™ AHDP ISOBUS 91 Series - Plugs

| Image                                                                               | Part Number          | Description                                                                                                                                                                                                                                      | Size/Amps                                   | Voltage |
|-------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
|    | AHDP06-24-91SN-SRA   | 9 Position, Plug, Socket, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Smooth Ring Adapter (SRA)                                                                                                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|    | AHDP06-24-91SN-WTA   | 9 Position, Plug, Socket, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Wide Thread Adapter (WTA)                                                                                                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|    | AHDP06-24-91SR-SRA   | 9 Position, Plug, Socket, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Smooth Ring Adapter (SRA)                                                                                                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|    | AHDP06-24-91SR-WTA   | 9 Position, Plug, Socket, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Wide Thread Adapter (WTA)                                                                                                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|    | AHDP06-24-91SR16-SRA | 9 Pos, Plug, Socket, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Smooth Ring Adapter (SRA), Size 8 Contact, 6AWG/16mm² Wire Seal<br><b>Note:</b> Use AT62-203-08141-16 contacts for 6AWG/16mm² applications | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|   | AHDP06-24-91SR16-WTA | 9 Pos, Plug, Socket, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Wide Thread Adapter (WTA), Size 8 Contact, 6AWG/16mm² Wire Seal<br><b>Note:</b> Use AT62-203-08141-16 contacts for 6AWG/16mm² applications | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDP06-24-91SN-P064  | Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal, Smooth Ring Adapter (SRA) (Green), No Jumper                                                                                                  | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDP06-24-91SR-P064  | Size 24, 9 Position, Plug, Socket, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal, Smooth Ring Adapter (SRA) (Green), No Jumper                                                                                                 | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |

## DuraMate™ AHDP ISOBUS 91 Series - Receptacles

| Image                                                                               | Part Number        | Description                                                                                                                        | Size/Amps                                   | Voltage |
|-------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
|  | AHDP04-24-91PN-SRA | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Smooth Ring Adapter (SRA) | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDP04-24-91PN-WTA | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Normal Diameter Seal (Green), Wide Thread Adapter (WTA) | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDP04-24-91PR-SRA | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Smooth Ring Adapter (SRA) | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |

DuraMate™ AHDP ISOBUS 91 Series - Receptacles, cont.

| Image                                                                             | Part Number          | Description                                                                                                                                                                                                                                             | Size/Amps                                   | Voltage |
|-----------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
|  | AHDP04-24-91PR-WTA   | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Wide Thread Adapter (WTA)                                                                                                                      | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDP04-24-91PR16-SRA | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Smooth Ring Adapter (SRA), Size 8 Contact, 6AWG/16mm² Wire Seal<br><br><b>Note:</b> Use AT60-204-08141-16 contacts for 6AWG/16mm² applications | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDP04-24-91PR16-WTA | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDP ISOBUS 91 Series, Plastic, Reduced Diameter Seal (Blue), Wide Thread Adapter (WTA), Size 8 Contact, 6AWG/16mm² Wire Seal<br><br><b>Note:</b> Use AT60-204-08141-16 contacts for 6AWG/16mm² applications | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |

DuraMate™ AHDP ISOBUS 91 Series - Backshell Options and Accessories

| Image                                                                              | Part Number      | Description                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | AHDPBS-011-2405  | Size 24, Backshell, Conduit, Snap Over, Right Angle 90°, DuraMate™ AHDP ISOBUS 91 Series<br><br><b>Note:</b> For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-24NUT Adapter |
|   | AHDPBS-010-2405  | Size 24, Backshell, Conduit, Snap Over, Straight 180°, DuraMate™ AHDP ISOBUS 91 Series<br><br><b>Note:</b> For use with Wide Thread Adapter (WTA). May also be used on DuraMate™ AHDM with P/N AHDM-BS-24NUT Adapter   |
|  | AHDPBS-0406-001  | Size 24, Backshell, Tie Wrap, Wide Thread Adapter (WTA), DuraMate™ AHDP ISOBUS 91 Series<br><br><b>Note:</b> For use with Wide Thread Adapter (WTA).                                                                   |
|  | AHDPBS-0406-002  | Size 24, Backshell, Wide Thread Adapter (WTA), 2 PC, Compression Nut, Cable Diameter Range 14.5mm - 18.0mm, DuraMate™ AHDP ISOBUS 91 Series                                                                            |
|                                                                                    | AHDPBS-0406-003  | Size 24, Backshell, Wide Thread Adapter (WTA), 2 PC, Compression Nut, Cable Diameter Range 19.5mm - 24.1mm, DuraMate™ AHDP ISOBUS 91 Series                                                                            |
|  | AHDPBS-0406-SM01 | Size 24, Backshell, Sealed, Cable Grommet, DuraMate™ AHDP ISOBUS 91 Series                                                                                                                                             |
|  | AHDC06-24        | Size 24, Receptacle Cap, Sealed, DuraMate™ AHDP ISOBUS 91 Series                                                                                                                                                       |
|  | AHDC04-24-PM     | Size 24, Plug Cap, Sealed, Threaded, DuraMate™ AHDP ISOBUS 91 Series                                                                                                                                                   |



DuraMate™ AHDP ISOBUS 91 Series - Backshell Options and Accessories, cont.

| Image                                                                               | Part Number       | Description                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | AHDC04-24-PMT     | Size 24, Plug Cap, w Tether, Threaded, Lock Washer, Sealed, DuraMate™ AHDP ISOBUS 91 Series                                                                 |
|     | AHDP24-PN01       | Size 24, Panel Nut, DuraMate™ AHDP ISOBUS 91 Series                                                                                                         |
|     | AT14-001-2486     | Size 24, Lock Washer, Wave, DuraMate™ AHDP ISOBUS 91 Series                                                                                                 |
|     | AHDP-16-04477     | Size 24, Rubber Flange Seal, DuraMate™ AHDP ISOBUS 91 Series                                                                                                |
|    | A114018           | Size 8, Blank Seal Plug                                                                                                                                     |
|    | A114017           | Size 12/16, Blank Seal Plug                                                                                                                                 |
|  | AT13-217-1605     | Size 16, Locking Seal Plug                                                                                                                                  |
|  | AT11-310-1605     | Size 16, Contact Removal Tool, Light Blue, 16-20AWG                                                                                                         |
|  | AT11-337-1205     | Size 12, Contact Removal Tool, Orange, 12-14AWG                                                                                                             |
|  | AT11-001-3.6M     | Size 8, Contact Removal Tool, Black, 7-10AWG                                                                                                                |
|  | AT114008          | Size 8, Contact Removal Tool, Green, 8-10AWG                                                                                                                |
|   | AT60-204-08141-16 | Size 8, 6AWG/16mm² Wire Range, Contact, Pin, Nickel-plated<br><b>Note:</b> Refer to Plug/Receptacle datasheets for a complete list of available contacts    |
|   | AT62-203-08141-16 | Size 8, 6AWG/16mm² Wire Range, Contact, Socket, Nickel-plated<br><b>Note:</b> Refer to Plug/Receptacle datasheets for a complete list of available contacts |



# DM Dura|Mate™ AHDM

## Environmentally-Sealed, Multi-Pin, Heavy-Duty, Metal, Circular Connectors

Available in Size 18 with 6 insert arrangements 2, 6, 8, 14, 20 and 21

Available in Size 24 with 13 insert arrangements 7(x2), 9, 16, 18, 19, 21, 23, 27, 29, 31, 35 and 47

The **DuraMate™ AHDM** environmentally-sealed, multi-pin, heavy duty, metal, circular connector series provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications.

- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High current configurations incorporating revolutionary RADSOK® contacts
- High strength impact resistant & lightweight zinc-alloy metal housings
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Environmentally-sealed and engineered rapid and secure mating system achieves IP68/IP69K protection (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistant.
- Sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges.
- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)
- Wire entry sealing available in three separate ranges for discrete wire applications
- Integrated Wide Threading provides an enhanced threading for use with our wide variety of screw-on or clamshell backshells



### DuraMate™ AHDM - Material & Performance Specifications

|                                 |                                                                                   |                   |                         |
|---------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------|
| Current Rating per Contact      | Size 4 - 100A<br>Size 8 - 86A<br>Size 12 - 25A<br>Size 16 - 13A<br>Size 20 - 7.5A | Housing Material  | Zinc-Alloy              |
| Operating Temperature           | -55°C to +125°C                                                                   | Insulation Insert | Thermoplastic           |
| Dielectric Withstanding Voltage | Current Leakage -2mA at 1500 VAC                                                  | Seal              | Silicone Rubber         |
| Degree of Protection            | IP68/69K (in mated condition)                                                     | Contact           | A Series™ Common System |
| Mating Cycle Durability         | 100 Cycles                                                                        | Compliance        | RoHS                    |



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DuraMate™ AHDM - Insert Arrangements <sup>(1)</sup> C030 - 6 Position/2 Used (Size 4); <sup>(4)</sup> CL22 - 7 Position Alt Construction)

| Size 18                          | Size 18                      | Size 18            | Size 18             | Size 18                        | Size 18             |
|----------------------------------|------------------------------|--------------------|---------------------|--------------------------------|---------------------|
| 18-06 <sup>(1)</sup><br>2 Size 4 | 18-06<br>2 Size 4, 4 Size 16 | 18-08<br>8 Size 12 | 18-14<br>14 Size 16 | 18-20<br>2 Size 16, 18 Size 20 | 18-21<br>21 Size 20 |
|                                  |                              |                    |                     |                                |                     |
| Normal                           | Normal                       | Normal             | Reduced             | Normal                         | Reduced             |

| Contact Legend (Size/Max. Current) |       |                  |        |        |         |
|------------------------------------|-------|------------------|--------|--------|---------|
|                                    |       |                  |        |        |         |
| 4+/100A<br>4/100A                  | 8/60A | 8/86A<br>RADSOK® | 12/25A | 16/13A | 20/7.5A |

| Size 24                                  | Size 24                                      | Size 24                                  | Size 24             | Size 24                                    | Size 24                        | Size 24                        | Size 24             | Size 24                        | Size 24                                     |
|------------------------------------------|----------------------------------------------|------------------------------------------|---------------------|--------------------------------------------|--------------------------------|--------------------------------|---------------------|--------------------------------|---------------------------------------------|
| 24-07<br>1 Size 8 (RADSOK®)<br>6 Size 12 | 24-07 <sup>(4)</sup><br>3 Size 4+, 4 Size 16 | 24-09<br>1 Size 4, 2 Size 8<br>6 Size 12 | 24-16<br>16 Size 12 | 24-18<br>1 Size 8, 3 Size 12<br>14 Size 16 | 24-19<br>6 Size 12, 13 Size 16 | 24-21<br>4 Size 12, 17 Size 16 | 24-23<br>23 Size 16 | 24-27<br>4 Size 12, 23 Size 16 | 24-29<br>4 Size 12, 19 Size 16<br>6 Size 20 |
|                                          |                                              |                                          |                     |                                            |                                |                                |                     |                                |                                             |
| Normal                                   | Normal                                       | Reduced                                  | Normal              | Reduced                                    | Normal                         | Reduced                        | Normal              | Reduced                        | Reduced                                     |

| Size 24             | Size 24                        | Size 24                        |
|---------------------|--------------------------------|--------------------------------|
| 24-31<br>31 Size 16 | 24-35<br>3 Size 16, 32 Size 20 | 24-47<br>5 Size 16, 42 Size 20 |
|                     |                                |                                |
| Reduced             | Thin                           | Reduced                        |

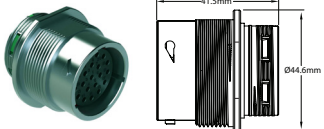
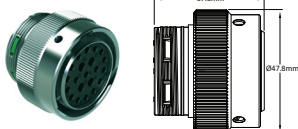
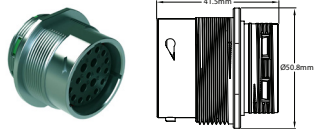
DuraMate™ AHDM - Recommended Wire Insulation Overall Diameter (OD) 4+ contact is only available for 24-07CL22

| Contact Size | Typical Wire Range                  | Normal Seal                | Thin Seal                 | Reduced Seal (See datasheets) |                            |
|--------------|-------------------------------------|----------------------------|---------------------------|-------------------------------|----------------------------|
| 4+           | 4AWG (25.0-21.0mm <sup>2</sup> )    | 7.9-10.67mm (0.311-0.420") | -                         | -                             | -                          |
| 4            | 6AWG (16.0-13.0mm <sup>2</sup> )    | 6.63-7.41mm (0.261-0.292") | -                         | 6.63-7.41mm (0.261-0.292")    | -                          |
| 8            | 8-10AWG (10.0-5.0mm <sup>2</sup> )  | 4.83-6.10mm (0.190-0.240") | -                         | 3.43-5.59mm (0.135-0.220")    | -                          |
| 12           | 10-14AWG (6.0-2.0mm <sup>2</sup> )  | 3.43-4.32mm (0.135-0.170") | -                         | 2.46-4.01mm (0.135-0.158")    | 2.46-4.01mm (0.135-0.158") |
| 16           | 14-20AWG (2.0-0.5mm <sup>2</sup> )  | 2.54-3.40mm (0.100-0.134") | 2.23-2.69mm (0.088-.106") | 1.35-3.05mm (0.053-0.120")    | 1.35-2.62mm (0.053-0.103") |
| 20           | 16-22AWG (1.5-0.35mm <sup>2</sup> ) | 1.02-2.41mm (0.040-.095")  | -                         | 1.02-2.41mm (0.040-0.095")    | 1.02-2.10mm (0.040-0.083") |

DuraMate™ AHDM - Backshell Options and Accessory Overview



DuraMate™ AHDM - Plug & Receptacle Options (Dimensions in mm)

| Size 18 Standard Plug                                                             | Size 18 Standard Receptacle                                                       | Size 24 Standard Plug                                                              | Size 24 Standard Receptacle                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Integrated Wide Threading                                                         | Integrated Wide Threading                                                         | Integrated Wide Threading                                                          | Integrated Wide Threading                                                           |
|  |  |  |  |

DuraMate™ AHDM - Backshell Options and Accessories

| Image                                                                               | Part Number    | Description                                                                                                                                                              |
|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | AHDMBS-24-002  | Size 24, Backshell, 2 PC, DuraMate™ AHDM                                                                                                                                 |
|                                                                                     | AHDMBS-18-002  | Size 18, Backshell, 2 PC, DuraMate™ AHDM                                                                                                                                 |
|    | AHDMBS-24-001  | Size 24, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM                                                                                                                   |
|                                                                                     | AHDMBS-18-001  | Size 18, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM                                                                                                                   |
|   | AHDMBS-24-059  | Size 24, Backshell, w Cable Clamp, DuraMate™ AHDM                                                                                                                        |
|                                                                                     | AHDMBS-18-059  | Size 18, Backshell, w Cable Clamp, DuraMate™ AHDM                                                                                                                        |
|  | AHDMBS-24-SM01 | Size 24, Backshell, Metal, DuraMate™ AHDM                                                                                                                                |
|                                                                                     | AHDMBS-18-SM01 | Size 18, Backshell, Metal, DuraMate™ AHDM                                                                                                                                |
|  | AHDM-BS-24NUT  | Size 24, Adapter for use with:<br>AHDPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight 180<br>AHDPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle 90 |
|                                                                                     | AHDM-BS-18NUT  | Size 18, Adapter for use with:<br>AHDPBS-015-1805 AHDP Backshell, Conduit, Snap-Over, Straight 180<br>AHDPBS-016-1805 AHDP Backshell, Conduit, Snap-Over, Right Angle 90 |
|  | AHDC34-24      | Size 24, Protective Cap for Plug, DuraMate™ AHDM                                                                                                                         |
|                                                                                     | AHDC34-18      | Size 18, Protective Cap for Plug, DuraMate™ AHDM                                                                                                                         |
|  | AHDC36-24      | Size 24, Protective Cap for Receptacle, DuraMate™ AHDM                                                                                                                   |
|                                                                                     | AHDC36-18      | Size 18, Protective Cap for Receptacle, DuraMate™ AHDM                                                                                                                   |
|  | A112264        | Size 24, Lockwasher, DuraMate™ AHDM                                                                                                                                      |
|                                                                                     | A114021        | Size 18, Lockwasher, DuraMate™ AHDM                                                                                                                                      |

DuraMate™ AHDM - Backshell Options and Accessories, cont.

| Image                                                                             | Part Number   | Description                             |
|-----------------------------------------------------------------------------------|---------------|-----------------------------------------|
|  | A112263-90    | Size 24, Nut, DuraMate™ AHDM            |
|                                                                                   | A114020-90    | Size 18, Nut, DuraMate™ AHDM            |
|  | A114019       | Size 4, Blank Seal Plug                 |
|  | A114018       | Size 8, Blank Seal Plug                 |
|  | A114017       | Size 12/16, Blank Seal Plug             |
|  | AT13-217-1605 | Size 16, Locking Seal Plug              |
|  | AT13-204-2005 | Size 20, Blank Seal Plug                |
|  | AT11-027-0405 | Size 4+, Contact Removal Tool, 4AWG     |
|                                                                                   | AT114009      | Size 4, Contact Removal Tool, 6AWG      |
|                                                                                   | AT11-001-3.6M | Size 8, Contact Removal Tool, 7-10AWG   |
|                                                                                   | AT114008      | Size 8, Contact Removal Tool, 8-10AWG   |
|                                                                                   | AT11-337-1205 | Size 12, Contact Removal Tool, 12-14AWG |
|                                                                                   | AT11-310-1605 | Size 16, Contact Removal Tool, 16-20AWG |
|                                                                                   | AT11-240-2005 | Size 20, Contact Removal Tool, 20-22AWG |





# **DM** Dura|Mate™ AHDM/AHDBM ISOBUS 91 Series

## Environmentally-Sealed, Multi-Pin, Heavy-Duty, Metal Circular ISOBUS Connectors

Available in Size 24, 9 Position

Amphenol Sine Systems' **DuraMate™ AHDM/AHDBM ISOBUS 91 Series** of environmentally-sealed, multi-pin, heavy-duty, circular metal plugs (AHDM) and breakaway metal (AHDBM) plugs & receptacles provide an economical, quick-connect, bayonet locking system **designed to meet ISO 11783 standards (for control and communications between tractors, implements and software) and withstand the challenges and complexities of harsh environment, off-road, agricultural applications.**

### Key ISOBUS 91 Series Features

- + One-to-one alternative for all HD30/HDB36 parts
- + Compatible to other industry standard (Circular Bayonet) versions while retaining full breakaway functionality
- + AHDM 91 Series Plugs have a jumper (bridged contacts) between Pin 4 & 5
- + AHDM/AHDBM 91 Series Receptacles don't have a jumper (bridged contact)
- + Options for up to 16mm² power wires
- + Full range of backshell options

### Important

- AHDBM 91 Series Plugs are intermateable to other industry standard versions and allow full breakaway functionality if used with suitable breakaway-ready Receptacles (like AHDBM 91 Receptacles)
- AHDM 91 Series Plugs are intermateable to other industry standard versions but do not retain breakaway functionality
- AHDBM 91 Series Receptacles (Circular Bayonet) are intermateable to other industry standard plugs and allow breakaway functionality when used with a breakaway Plugs (like AHDBM 91 Plugs)
- Available upon request and not shown on this flyer: AHDM 91 Series Receptacles (Drop Shaped Bayonet) are not intermateable to all industry standard versions and do not retain breakaway functionality

### DuraMate™ Features

- 3 key-way bayonet design ensures proper mating of connectors
- High density signal and mixed power insert configurations
- Operating temperature range: -55°C to +125°C
- High-strength, impact resistant & lightweight zinc-alloy metal housings
- Low-insertion force stamped terminals offer improved manufacturing efficiencies
- Environmentally-sealed and engineered rapid and secure mating system achieves IP67/IP69K protection (in mated condition) from ingress of dust, water, mud and other contaminants and is vibration resistant
- Sealing features consisting of durable high-temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels
- Backshells maintain a compression-fit design to resist maximum pull-out forces and facilitate strain-relief for jacketed cable ranges
- Wire entry sealing available in four separate ranges for discrete wire applications
- Integrated Wide Threading provides an enhanced threading for use with our wide variety of screw-on or clamshell backshells
- Utilizes A Series™ standard contact system (Stamped & Formed or Machined)



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DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Material & Performance Specifications

|                                 |                                         |                   |                           |
|---------------------------------|-----------------------------------------|-------------------|---------------------------|
| Current Rating per Contact      | Size 8, 60A; Size 12, 25A; Size 16, 13A | Housing Material  | Zinc-alloy/Aluminum-alloy |
| Operating Temperature           | -55°C to +125°C                         | Insulation Insert | Thermoplastic             |
| Dielectric Withstanding Voltage | Current Leakage-2mA at 1500 VAC         | Seal              | Silicone Rubber           |
| Degree of Protection            | IP68/69K (in mated condition)           | Contact           | A Series™ Common System   |
| Mating Cycle Durability         | 100 Cycles                              | Compliance        | RoHS                      |

DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Insert Arrangements

| Size 24                                                                          | Contact Legend (Size/Max. Current)                                                |                                                                                   |                                                                                   |                                                                                   |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 24-09<br>2 Size 8, 2 Size 12,<br>5 Size 16                                       |  |  |  |  |
|  | 8/60A<br>6AWG                                                                     | 8/60A<br>8-10AWG                                                                  | 12/25A                                                                            | 16/13A                                                                            |
| Normal                                                                           | Reduced                                                                           |                                                                                   |                                                                                   |                                                                                   |

DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Recommended Wire Insulation Overall Diameter (OD)

| Contact Size | Typical Wire Range    | Normal Seal                | Reduced Seal               | Reduced Seal for 6AWG/16mm²<br>(Size 8 Contacts Only) |
|--------------|-----------------------|----------------------------|----------------------------|-------------------------------------------------------|
| 8            | 6-10AWG (5.0-16.0mm²) | 4.83-6.10mm (0.190-0.240") | 3.43-5.59mm (0.135-0.220") | 6.50-7.42mm (0.256-0.292")                            |
| 12           | 10-14AWG (6.0-2.0mm²) | 3.40-4.32mm (0.134-0.170") | 2.46-4.01mm (0.135-0.158") | 2.46-4.01mm (0.135-0.158")                            |
| 16           | 14-20AWG (2.0-0.5mm²) | 2.54-3.40mm (0.100-0.134") | 1.35-3.05mm (0.053-0.120") | 1.35-3.05mm (0.053-0.120")                            |

DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Backshell Options and Accessory Overview



DuraMate™ AHDM ISOBUS 91 Series - Plug & Receptacle Options (Dimensions in mm)

| Size 24 Plug              | Size 24 Breakaway Plug    | Size 24 Breakaway Receptacle |
|---------------------------|---------------------------|------------------------------|
| Integrated Wide Threading | Integrated Wide Threading | Integrated Wide Threading    |
|                           |                           |                              |

DuraMate™ AHDM ISOBUS 91 Series - Plugs

| Image                                                                              | Part Number          | Description                                                                                                                                                                                                                                                                | Size/Amps                                   | Voltage |
|------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
|   | AHDM06-24-91SN       | 9 Pos, Plug, Socket, Size 24, DuraMate™ AHDM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading                                                                                                                                              | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|    | AHDM06-24-91SN-059   | 9 Pos, Kit, Plug, Socket, Size 24, DuraMate™ AHDM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Cable Clamp Backshell                                                                                                                  | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|    | AHDM06-24-91SR       | 9 Pos, Plug, Socket, Size 24, DuraMate™ AHDM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading                                                                                                                                              | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|    | AHDM06-24-91SR-059   | 9 Pos, Kit, Plug, Socket, Size 24, DuraMate™ AHDM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell                                                                                                                  | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|   | AHDM06-24-91SR16     | 9 Pos, Plug, Socket, Size 24, DuraMate™ AHDM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Size 8 Contact, 6AWG/16mm² Wire Seal<br><b>Note:</b> Use AT62-203-08141-16 contacts for 6AWG/16mm² applications                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDM06-24-91SR16-059 | 9 Pos, Kit, Plug, Socket, Size 24, DuraMate™ AHDM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Size 8 Contact, 6AWG/16mm² Wire Seal<br><b>Note:</b> Use AT62-203-08141-16 contacts for 6AWG/16mm² applications | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |

DuraMate™ AHDBM ISOBUS 91 Series - Breakaway Plugs

| Image                                                                               | Part Number         | Description                                                                                                                                                                | Size/Amps                                   | Voltage |
|-------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
|  | AHDBM06-24-91SN     | 9 Pos, Plug, Socket, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Breakway-Ready                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|   | AHDBM06-24-91SN-059 | 9 Pos, Kit, Plug, Socket, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Cable Clamp Backshell, Breakway-Ready | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|   | AHDBM06-24-91SR     | 9 Pos, Plug, Socket, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Breakway-Ready                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |

## DuraMate™ AHDBM ISOBUS 91 Series - Breakaway Plugs, cont.

| Image                                                                            | Part Number           | Description                                                                                                                                                                                                                                                                                | Size/Amps                                   | Voltage |
|----------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
|  | AHDBM06-24-91SR-059   | 9 Pos, Kit, Plug, Socket, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Breakaway-Ready                                                                                                                | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDBM06-24-91SR16     | 9 Pos, Kit, Plug, Socket, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Breakaway, Size 8 Contact, 6AWG/16mm² Wire Seal<br><br><b>Note:</b> Use AT62-203-08141-16 contacts for 6AWG/16mm² applications | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDBM06-24-91SR16-059 | 9 Pos, Plug, Socket, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Breakaway, Size 8 Contact, 6AWG/16mm² Wire Seal<br><br><b>Note:</b> Use AT62-203-08141-16 contacts for 6AWG/16mm² applications                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |

## DuraMate™ AHDBM ISOBUS 91 Series - Breakaway-Ready Receptacles

| Image                                                                              | Part Number           | Description                                                                                                                                                                                                                                                                                         | Contact Size/Amps                           | Voltage |
|------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|
|   | AHDBM04-24-91PN       | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Breakaway-Ready                                                                                                                                                  | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDBM04-24-91PN-059   | 9 Pos, Kit, Receptacle, Pin, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Normal Diameter Seal (Green), Integrated Wide Threading, Cable Clamp Backshell, Breakaway-Ready                                                                                                                      | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDBM04-24-91PR       | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Breakaway-Ready                                                                                                                                                  | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDBM04-24-91PR-059   | 9 Pos, Kit, Receptacle, Pin, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Breakaway-Ready                                                                                                                      | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDBM04-24-91PR16     | 9 Pos, Receptacle, Pin, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Breakaway-Ready, Size 8 Contact, 6AWG/16mm² Wire Seal<br><br><b>Note:</b> Use AT60-204-08141-16 contacts for 6AWG/16mm² applications                             | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |
|  | AHDBM04-24-91PR16-059 | 9 Pos, Kit, Receptacle, Pin, Size 24, DuraMate™ AHDBM ISOBUS 91 Series, Metal, Reduced Diameter Seal (Blue), Integrated Wide Threading, Cable Clamp Backshell, Breakaway-Ready, Size 8 Contact, 6AWG/16mm² Wire Seal<br><br><b>Note:</b> Use AT60-204-08141-16 contacts for 6AWG/16mm² applications | Size 8, 60A<br>Size 12, 25A<br>Size 16, 13A | 250V    |

DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Backshell Options and Accessories

| Image                                                                               | Part Number    | Description                                                                                                                                                            |
|-------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | AHDMBS-24-002  | Size 24, Backshell, 2 PC, DuraMate™ AHDM/AHDBM ISOBUS 91 Series                                                                                                        |
|     | AHDMBS-24-001  | Size 24, Backshell, Tie Wrap, End Bell, DuraMate™ AHDM/AHDBM ISOBUS 91 Series                                                                                          |
|     | AHDMBS-24-059  | Size 24, Backshell, w Cable Clamp, DuraMate™ AHDM/AHDBM ISOBUS 91 Series                                                                                               |
|     | AHDMBS-24-SM01 | Size 24, Backshell, Metal, DuraMate™ AHDM/AHDBM ISOBUS 91 Series                                                                                                       |
|   | AHDM-BS-24NUT  | Size 24, Adapter for use with:<br>AHPBS-010-2405 AHDP Backshell, Conduit, Snap-Over, Straight 180<br>AHPBS-011-2405 AHDP Backshell, Conduit, Snap-Over, Right Angle 90 |
|   | AHDC34-24      | Size 24, Protective Cap for Plug, DuraMate™ AHDM/AHDBM ISOBUS 91 Series                                                                                                |
|   | AHDC36-24      | Size 24, Protective Cap for Receptacle, DuraMate™ AHDM/AHDBM ISOBUS 91 Series                                                                                          |
|   | A112264        | Size 24, Lockwasher, DuraMate™ AHDM/AHDBM ISOBUS 91 Series                                                                                                             |
|   | A112263-90     | Size 24, Nut, DuraMate™ AHDM/AHDBM ISOBUS 91 Series                                                                                                                    |
|  | A114018        | Size 8, Blank Seal Plug                                                                                                                                                |
|  | A114017        | Size 12/16, Blank Seal Plug                                                                                                                                            |
|  | AT13-217-1605  | Size 16, Locking Seal Plug                                                                                                                                             |
|  | AT11-310-1605  | Size 16, Contact Removal Tool, Light Blue, 16-20AWG                                                                                                                    |



DuraMate™ AHDM/AHDBM ISOBUS 91 Series - Backshell Options and Accessories, cont.

| Image                                                                             | Part Number       | Description                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | AT11-337-1205     | Size 12 , Contact Removal Tool, Orange, 12-14AWG                                                                                                            |
|  | AT11-001-3.6M     | Size 8, Contact Removal Tool, Black, 7-10AWG                                                                                                                |
|  | AT114008          | Size 8, Contact Removal Tool, Green, 8-10AWG                                                                                                                |
|   | AT60-204-08141-16 | Size 8, 6AWG/16mm² Wire Range, Contact, Pin, Nickel-plated<br><b>Note:</b> Refer to Plug/Receptacle datasheets for a complete list of available contacts    |
|   | AT62-203-08141-16 | Size 8, 6AWG/16mm² Wire Range, Contact, Socket, Nickel-plated<br><b>Note:</b> Refer to Plug/Receptacle datasheets for a complete list of available contacts |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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Every effort has been made to ensure that the information contained in this document is accurate at the time of publication. Specifications or information stated in this document are subject to change without notice.



# HN HydroNet™

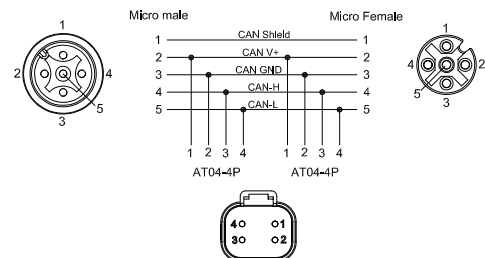
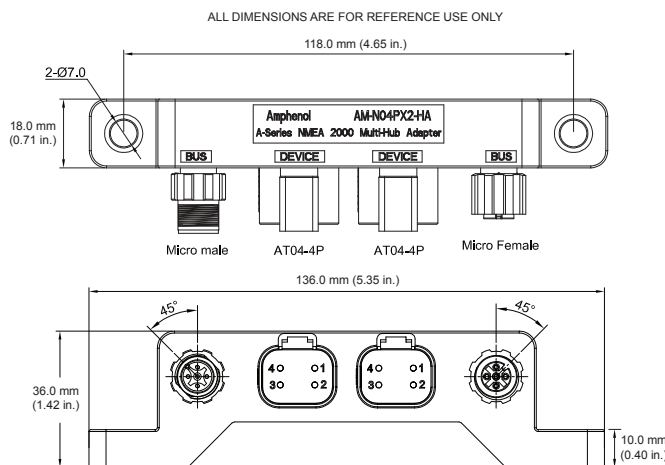
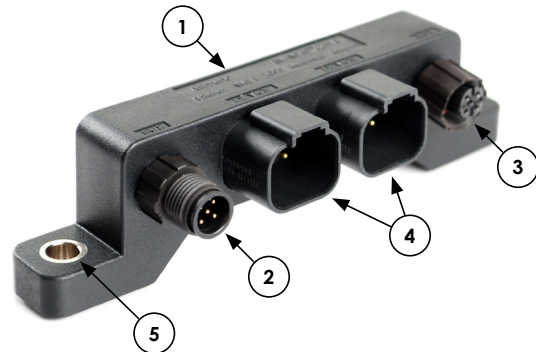
## AT Series™ Multi-Hub Adapter

- Provides OEM's flexibility and increased reliability when connecting multiple devices to NMEA 2000 network
- Two 4 pin AT/DT interfaces easily adapts devices to field proven, sealed, and serviceable electrical connections
- Powers the NMEA network in a rugged, compact, and environmentally sealed package
- Factory assembled for true Plug and Play capability
- Reduces the need to modify or assemble NMEA connections onto cables
- Allows for customized and built-to-length electrical harnesses eliminating costly coils of unused cable



## Feature & Benefits

- Factory assembled part for simplified mounting
- Environmentally-sealed to IP67 rating
- Rugged thermoplastic overmold (UL94-V0) ①
- Micro NMEA - Male ② and Female ③
- 2 - Four (4) position receptacles (AT/DT) with gold pins ④
- Stainless steel inserts for mounting ⑤



**A Series™ Family**



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## Technical Specifications

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| Current Rating                  | 4A                                               |
| Voltage Rating                  | 60V AC/DC                                        |
| Operating Temperature           | -20°C to +130°C                                  |
| Dielectric Withstanding Voltage | Less than 2 milliamps current leakage @ 1000V AC |
| Degree of Protection            | IP67 (Mated condition)                           |
| Degree of Pollution             | 3 per UL840                                      |
| Overvoltage Category            | III per UL840                                    |
| Mating Cycle Durability         | >100 cycles                                      |

|                   |                                      |
|-------------------|--------------------------------------|
| RoHS              | Compliant                            |
| Coupling Nut      | PA66 UL94V-0                         |
| Insulation Insert | PA66, UL94 V0                        |
| Seal              | Silicon Rubber                       |
| Overmold Material | Thermoplastic                        |
| Color             | Black                                |
| Contact           | Gold Flash-plating over Copper Alloy |



| Part Number   | Description                                                 |
|---------------|-------------------------------------------------------------|
| AM-N04PX2-HA  | Multi-Hub, Hydro   Net Adapter, AT/ NMEA 2000               |
| AM-N05-TEE    | Multi-Hub, Tee, NMEA 2000                                   |
| AM-N05P-TERM  | Multi-Hub, Terminator Plug, NMEA 2000, Male Pin w/ LED      |
| AM-N05S-TERM  | Multi-Hub, Terminator Plug, NMEA 2000, Female Socket w/ LED |
| AM-N05PS-M0.3 | Double-ended, NMEA 2000, M/F Plug, 0.3 Meter                |
| AM-N05PS-M1   | Double-ended, NMEA 2000, M/F Plug, 1 Meter                  |
| AM-N05PS-M3   | Double-ended, NMEA 2000, M/F Plug, 3 Meter                  |
| AM-N05PS-M5   | Double-ended, NMEA 2000, M/F Plug, 5 Meter                  |
| AM-N05PS-M9   | Double-ended, NMEA 2000, M/F Plug, 9 Meter                  |
| AM-N05PS-M20  | Double-ended, NMEA 2000, M/F Plug, 20 Meter                 |
| AM-N05P-M0.3  | Single-ended, NMEA 2000, Plug, Male Pin, 0.3 Meter          |
| AM-N05P-M1    | Single-ended, NMEA 2000, Plug, Male Pin, 1 Meter            |
| AM-N05P-M3    | Single-ended, NMEA 2000, Plug, Male Pin, 3 Meter            |
| AM-N05P-M5    | Single-ended, NMEA 2000, Plug, Male Pin, 5 Meter            |
| AM-N05P-M9    | Single-ended, NMEA 2000, Plug, Male Pin, 9 Meter            |
| AM-N05P-M20   | Single-ended, NMEA 2000, Plug, Male Pin, 20 Meter           |
| AM-N05S-M0.3  | Single-ended, NMEA 2000, Plug, Female Socket, 0.3 Meter     |
| AM-N05S-M1    | Single-ended, NMEA 2000, Plug, Female Socket, 1 Meter       |
| AM-N05S-M3    | Single-ended, NMEA 2000, Plug, Female Socket, 3 Meter       |
| AM-N05S-M5    | Single-ended, NMEA 2000, Plug, Female Socket, 5 Meter       |
| AM-N05S-M9    | Single-ended, NMEA 2000, Plug, Female Socket, 9 Meter       |
| AM-N05S-M20   | Single-ended, NMEA 2000, Plug, Female Socket, 20 Meter      |
| AT04-4P-KIT01 | AT, 4P, Kit Wedge & Contacts                                |
| AT4PS-CKIT    | AT, Complete Pin & Socket Wedge Kit                         |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)



# **HB** **HYPERBUSS™** Family

More **Power.**  
More **Data.**  
More **Control.**



Amphenol Sine Systems' **HYPERBUSS™ Family** of Receptacle Connectors are a high-performance, cost-effective solution used in a variety of interconnect applications where a common "bussed" electrical pathway is required. All options are IP67-rated (in mated condition) and offer superior environmental sealing capabilities.

**Buss:** a conductor, or a group of conductors, used for collecting electric power from the incoming feeders and distributes them to the outgoing feeders; a type of electrical junction in which all the incoming and outgoing electrical current meets.

Currently available in **HYPERBUSS™ AT Series**, **HYPERBUSS™ ATP Series** and **HYPERBUSS™ ATV Series** options, each intermateable with their respective industry standard connectors.



## Key Features

- **HYPERBUSS™ AT Series:** Available in 2, 4, 6, 8, and 12 Position Receptacles
- **HYPERBUSS™ ATP Series:** Available in 6 Position Receptacles
- **HYPERBUSS™ ATV Series:** Available in 18 Position Receptacles
- Sealed Integrated Bussed Feedthrough Assembly
- Rectangular, thermoplastic housing
- Integrated latch for mating
- Included wedgelock confirms contact alignment and retention

**Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural



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## AT Series™ Heavy Duty Bussed Receptacles

Amphenol Sine Systems' **HYPERBUSS™ AT Receptacles** are a high-performance, cost-effective solution used in a variety of interconnect applications where a common "bussed" electrical pathway is required: Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural. All **HYPERBUSS™ AT** Receptacle Connectors are interchangeable with standard AT Series™ Plugs as well as industry standard connectors. They are IP67-rated (in mated condition) and offer superior environmental sealing capabilities.

**Buss:** a conductor, or a group of conductors, used for collecting electric power from the incoming feeders and distributes them to the outgoing feeders; a type of electrical junction in which all the incoming and outgoing electrical current meets.

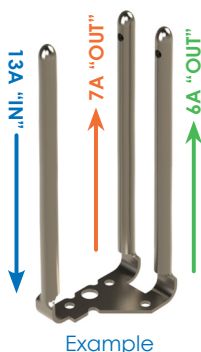
### Key Features

- Available in 2, 4, 6, 8 and 12 Position Receptacles
- Sealed Integrated Bussed Feedback Assembly
- Rectangular, thermoplastic housing
- Included wedgelock confirms contact alignment/retention
- Integrated latch for mating
- Mates with standard AT Series™ Plugs

**Applications:** Bussed Feedback Receptacles used as a Splice Block or Tap Block

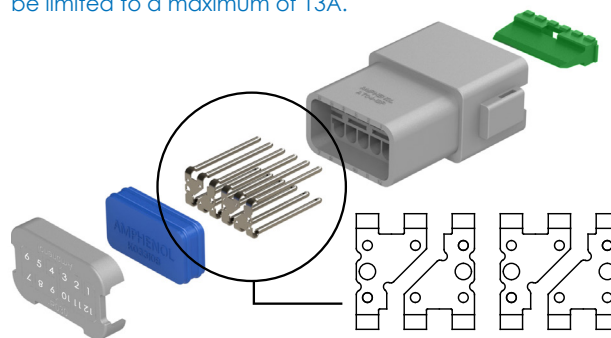
### Technical Specifications

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Housings                   | Thermoplastic                                     |
| Contacts (Integral Pins)   | Copper Alloy, Nickel or Gold Plated               |
| Operating Temperature      | -55°C to +125°C                                   |
| IP Rating                  | IP67 (in mated condition)                         |
| Mates with                 | AT06-(XXXX) Plugs                                 |
| Contact Size               | 16                                                |
| Current Rating Per Contact | 13A Max                                           |
| Keying Options             | Available in 6, 8 & 12 Position<br>A and B Keying |



Example

Maximum rated current is determined by the combined current across the entire buss. In the example to the left, various combinations of current can be achieved, but must be limited to a maximum of 13A.



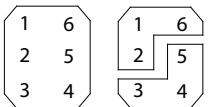
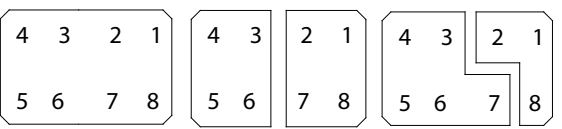
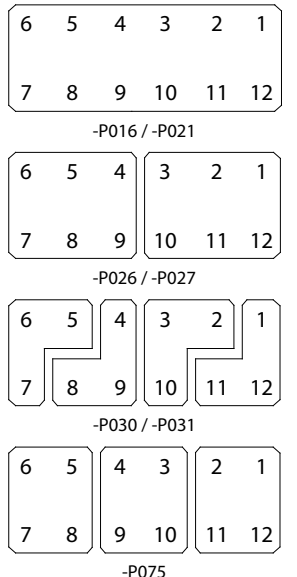
12-Way, (4) 3 Pin Buss Contact Layout



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**HYPERBUSSTM AT Heavy Duty Bussed Receptacles**

| Pin Layout                                                                                                                                      | Part Number    | Description                                                                              | Size |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------|------|
| <br>-P060                                                      | AT04-2P-P060   | 2 Pos, HYPERBUSSTM AT, Recep, (1) 2 Pin (*13A), Nickel, Black                            | 16   |
| <br>-EP13 / -P021                                              | AT04-4P-EP13   | 4 Pos, HYPERBUSSTM AT, Recep, (1) 4 Pin (*26A), Nickel, Black                            | 16   |
|                                                                                                                                                 | AT04-4P-P021   | 4 Pos, HYPERBUSSTM AT, Recep, (1) 4 Pin (*26A), Nickel, Grey                             | 16   |
| <br>-EP13 / -P021                                              | AT04-6P-EP13   | 6 Pos, HYPERBUSSTM AT, Recep, (1) 6 Pin (*39A), Nickel, Black                            | 16   |
|                                                                                                                                                 | AT04-6P-P021   | 6 Pos, HYPERBUSSTM AT, Recep, (1) 6 Pin (*39A), Nickel, Grey                             | 16   |
|                                                                                                                                                 | AT04-6P-EP14   | 6 Pos, HYPERBUSSTM AT, Recep, (2) 3 Pin (*13A ea), Nickel, Black                         | 16   |
| <br>-P021      -P026      -P028                                 | AT04-08PA-P021 | 8 Pos, HYPERBUSSTM AT, Recep, (1) 8 Pin (*52A), Nickel, Keyed A, Grey                    | 16   |
|                                                                                                                                                 | AT04-08PB-P021 | 8 Pos, HYPERBUSSTM AT, Recep, (1) 8 Pin (*52A), Nickel, Keyed B, Black                   | 16   |
|                                                                                                                                                 | AT04-08PA-P026 | 8 Pos, HYPERBUSSTM AT, Recep, (2) 4 Pin (*26A ea), Nickel, Keyed A, Grey                 | 16   |
|                                                                                                                                                 | AT04-08PB-P026 | 8 Pos, HYPERBUSSTM AT, Recep, (2) 4 Pin (*26A ea), Nickel, Keyed B, Black                | 16   |
|                                                                                                                                                 | AT04-08PA-P028 | 8 Pos, HYPERBUSSTM AT, Recep, (1) 3 Pin (*13A), (1) 5 Pin (*26A), Nickel, Keyed A, Grey  | 16   |
|                                                                                                                                                 | AT04-08PB-P028 | 8 Pos, HYPERBUSSTM AT, Recep, (1) 3 Pin (*13A), (1) 5 Pin (*26A), Nickel, Keyed B, Black | 16   |
| <br>-P016 / -P021<br>-P026 / -P027<br>-P030 / -P031<br>-P075 | AT04-12PA-P016 | 12 Pos, HYPERBUSSTM AT, Recep, (1) 12 Pin (*78A), Gold, Keyed A, Grey                    | 16   |
|                                                                                                                                                 | AT04-12PB-P016 | 12 Pos, HYPERBUSSTM AT, Recep, (1) 12 Pin (*78A), Gold, Keyed B, Black                   | 16   |
|                                                                                                                                                 | AT04-12PA-P021 | 12 Pos, HYPERBUSSTM AT, Recep, (1) 12 Pin (*78A), Nickel, Keyed A, Grey                  | 16   |
|                                                                                                                                                 | AT04-12PB-P021 | 12 Pos, HYPERBUSSTM AT, Recep, (1) 12 Pin (*78A), Nickel, Keyed B, Black                 | 16   |
|                                                                                                                                                 | AT04-12PA-P026 | 12 Pos, HYPERBUSSTM AT, Recep, (2) 6 Pin (*39A ea), Nickel, Keyed A, Grey                | 16   |
|                                                                                                                                                 | AT04-12PB-P026 | 12 Pos, HYPERBUSSTM AT, Recep, (2) 6 Pin (*39A ea), Nickel, Keyed B, Black               | 16   |
|                                                                                                                                                 | AT04-12PB-P027 | 12 Pos, HYPERBUSSTM AT, Recep, (2) 6 Pin (*39A ea), Gold, Keyed B, Black                 | 16   |
|                                                                                                                                                 | AT04-12PA-P030 | 12 Pos, HYPERBUSSTM AT, Recep, (4) 3 Pin (*13A ea), Nickel, Keyed A, Grey                | 16   |
|                                                                                                                                                 | AT04-12PB-P030 | 12 Pos, HYPERBUSSTM AT, Recep, (4) 3 Pin (*13A ea), Nickel, Keyed B, Black               | 16   |
|                                                                                                                                                 | AT04-12PA-P031 | 12 Pos, HYPERBUSSTM AT, Recep, (4) 3 Pin (*13A ea), Gold, Keyed A, Grey                  | 16   |
|                                                                                                                                                 | AT04-12PB-P031 | 12 Pos, HYPERBUSSTM AT, Recep, (4) 3 Pin (*13A ea), Gold, Keyed B, Black                 | 16   |
|                                                                                                                                                 | AT04-12PA-P075 | 12 Pos, HYPERBUSSTM AT, Recep, (3) 4 Pin (*26A ea), Nickel, Keyed A, Grey                | 16   |

\*Maximum current rating is the total amperage for the buss



# HB HYPERBUSS™ ATP



## ATP Series™ Heavy Duty Bussed Receptacles

Amphenol Sine Systems' **HYPERBUSS™ ATP 6 Position Heavy Duty Bussed Receptacles** are a high-performance, cost-effective solution used in a variety of interconnect applications where a common "bussed" electrical pathway is required: Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy and Agricultural. All **HYPERBUSS™ ATP 6 Position Heavy Duty Bussed Receptacles** are intermateable with standard ATP Series™ 6 Position Plugs and StructurePlus™ ATP 6 Position Plugs, as well as industry standard connectors. The receptacles are IP68-rated (1M of water for 24 hours) and offer superior environmental sealing capabilities.

**Buss:** a conductor, or a group of conductors, used for collecting electric power from the incoming feeders and distributes them to the outgoing feeders; a type of electrical junction in which all the incoming and outgoing electrical current meets.

### Key Features

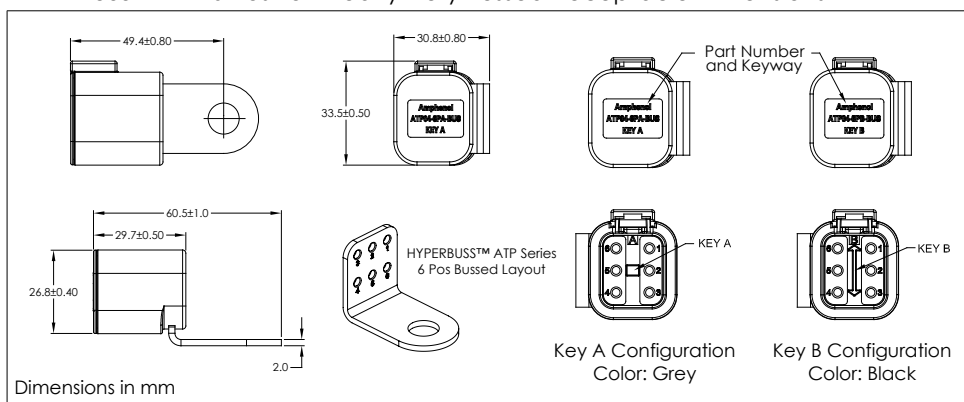
- Available in 6 Position Receptacles
- Available Keyed A Buss (Grey) or Keyed B Buss (Black)
- Sealed Integrated Bussed Feedback Assembly
- Included wedgelock confirms contact alignment/retention
- Integrated latch for mating
- Mates with standard ATP Series™ Plugs

**Applications:** Bussed Feedback Receptacles used as a Splice Block or Tap Block

### Technical Specifications

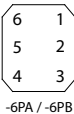
|                            |                               |
|----------------------------|-------------------------------|
| Housings                   | Thermoplastic                 |
| Grounding/Power Buss       | Copper Alloy, Nickel Plated   |
| Contacts (Integral Pins)   | Copper Alloy, Nickel Plated   |
| Operating Temperature      | -55°C to +125°C               |
| IP Rating                  | IP68 (1M of water for 24 Hrs) |
| Mates with                 | ATP06-6S-XXXX Plugs           |
| Contact Size               | 12                            |
| Current Rating Per Contact | 25A Max (150A Total)          |

### HYPERBUSS™ ATP 6 Position Heavy Duty Bussed Receptacle Dimensions



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**HYPERBUSSTM ATP Series 6 Position Heavy Duty Bussed Receptacles**

| Pin Layout                                                                                                                                                                                                                                                          | Part Number   | Description                                                              | Size | Amperage            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------|------|---------------------|
|   <br>-6PA / -6PB | ATP04-6PA-BUS | 6 Position, HYPERBUSSTM ATP, Receptacle, (1) 6 Pin, Buss, Keyed A, Grey  | 12   | 25A<br>(150A Total) |
|                                                                                                                                                                                                                                                                     | ATP04-6PB-BUS | 6 Position, HYPERBUSSTM ATP, Receptacle, (1) 6 Pin, Buss, Keyed B, Black | 12   | 25A<br>(150A Total) |

\*Maximum current rating is the total amperage for the buss

**6 Position Plug Mating Options (More mating options available at [www.amphenol-sine.com](http://www.amphenol-sine.com))**

| Pin Layout                                                                          | Part Number      | Description                                                                  | Size | Amperage |
|-------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------|------|----------|
|    | ATP06-6S         | 6 Position, ATP SeriesTM, Plug, Socket, Grey                                 | 12   | 25A      |
|    | ATP06-6S-BLK     | 6 Position, ATP SeriesTM, Plug, Socket, Black                                | 12   | 25A      |
|    | ATP06-6S-RD01    | 6 Position, ATP SeriesTM, Plug, Socket, Reduced Diameter Seal, Grey          | 12   | 25A      |
|   | ATP06-6S-RD01BK  | 6 Position, ATP SeriesTM, Plug, Socket, Reduced Diameter Seal, Black         | 12   | 25A      |
|  | ATP06-6S-OMGRY   | 6 Position, Structure PlusTM ATP, Plug, Socket, Grey                         | 12   | 25A      |
|  | ATP06-6S-OMBLK   | 6 Position, Structure PlusTM ATP, Plug, Socket, Black                        | 12   | 25A      |
|  | ATP06-6S-OMRDGRY | 6 Position, Structure PlusTM ATP, Plug, Socket, Reduced Diameter Seal, Grey  | 12   | 25A      |
|  | ATP06-6S-OMRDBLK | 6 Position, Structure PlusTM ATP, Plug, Socket, Reduced Diameter Seal, Black | 12   | 25A      |

**Required 6 Position Plug Wedgelocks**

| Pin Layout                                                                          | Part Number | Description                                | Size | Amperage |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------|------|----------|
|  | AWP-6SA     | 6 Position, Plug Wedgelock, Keyed A, Gray  | -    | -        |
|  | AWP-6SB     | 6 Position, Plug Wedgelock, Keyed B, Black | -    | -        |



# HB HYPERBUSS™ ATV

## ATV Series™ Heavy Duty Bussed Receptacles



Amphenol Sine Systems' **HYPERBUSS™ ATV 18 Position Bussed Receptacles** are a high-performance, cost-effective solution used in a variety of interconnect applications where a common "bussed" electrical pathway is required: Heavy Duty, Transportation, Marine, Military, Alternative Energy and Agricultural. All **HYPERBUSS™ ATV 18 Position Bussed Receptacles** are intermateable with standard ATV Series™ 18 Position Plugs, as well as industry standard connectors. They are IP67-rated (in mated condition) and offer superior environmental sealing capabilities.

**Buss:** a conductor, or a group of conductors, used for collecting electric power from the incoming feeders and distributes them to the outgoing feeders; a type of electrical junction in which all the incoming and outgoing electrical current meets.

### Key Features

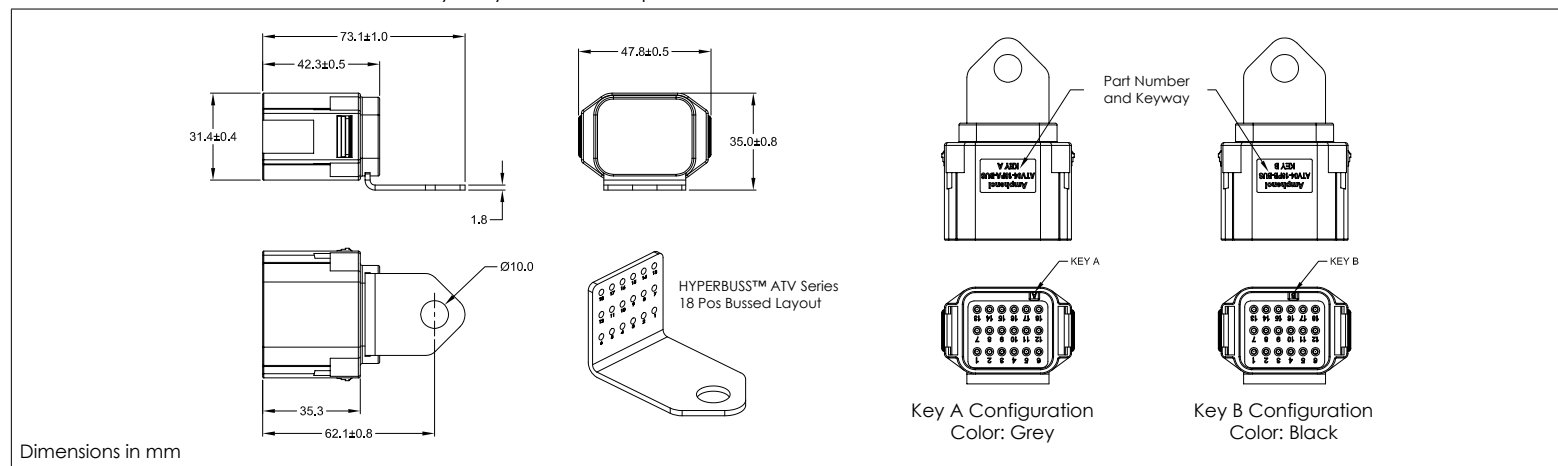
- Available in 18 Position Receptacles
- Available Keyed A Buss (Grey) or Keyed B Buss (Black)
- Sealed Intergrated Bussed Feedback Assembly
- Included wedgelock confirms contact alignment/retention
- Integrated latch for mating
- Mates with standard ATV Series™ Plugs

**Applications:** Bussed Feedback Receptacles used as a Splice Block or Tap Block

|                          |                             |
|--------------------------|-----------------------------|
| Housings                 | Thermoplastic               |
| Grounding/Power Buss     | Copper Alloy, Nickel Plated |
| Contacts (Integral Pins) | Copper Alloy, Nickel Plated |
| Operating Temperature    | -55°C to +125°C             |

|                            |                           |
|----------------------------|---------------------------|
| IP Rating                  | IP67 (in mated condition) |
| Contact Size               | 16                        |
| Current Rating Per Contact | 13A Max (234A Total)      |

### HYPERBUSS™ ATV Series 18 Position Heavy Duty Bussed Receptacle Dimensions

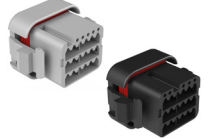


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**HYPERBUSSTM ATV Series** 18 Position Heavy Duty Bussed Receptacles

| Image                                                                            | Part Number    | Description                                                         | Size | Amps                |
|----------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------|------|---------------------|
|  | ATV04-18PA-BUS | 18 Position, HYPERBUSSTM ATV Series, Receptacle, Buss, Key A, Grey  | 16   | 13A<br>(230A Total) |
|                                                                                  | ATV04-18PB-BUS | 18 Position, HYPERBUSSTM ATV Series, Receptacle, Buss, Key B, Black | 16   | 13A<br>(230A Total) |

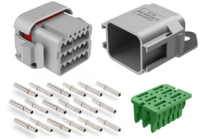
Mating **ATV SeriesTM** 18 Position Heavy Duty Plugs

| Image                                                                            | Part Number | Description                                                  | Size | Amps                |
|----------------------------------------------------------------------------------|-------------|--------------------------------------------------------------|------|---------------------|
|  | ATV06-18SA  | 18 Position, ATV SeriesTM, Plug, Key A, Standard Seal, Grey  | 16   | 13A<br>(230A Total) |
|                                                                                  | ATV06-18SB  | 18 Position, ATV SeriesTM, Plug, Key B, Standard Seal, Black | 16   | 13A<br>(230A Total) |

**ATV SeriesTM** 18 Position Wedgelocks

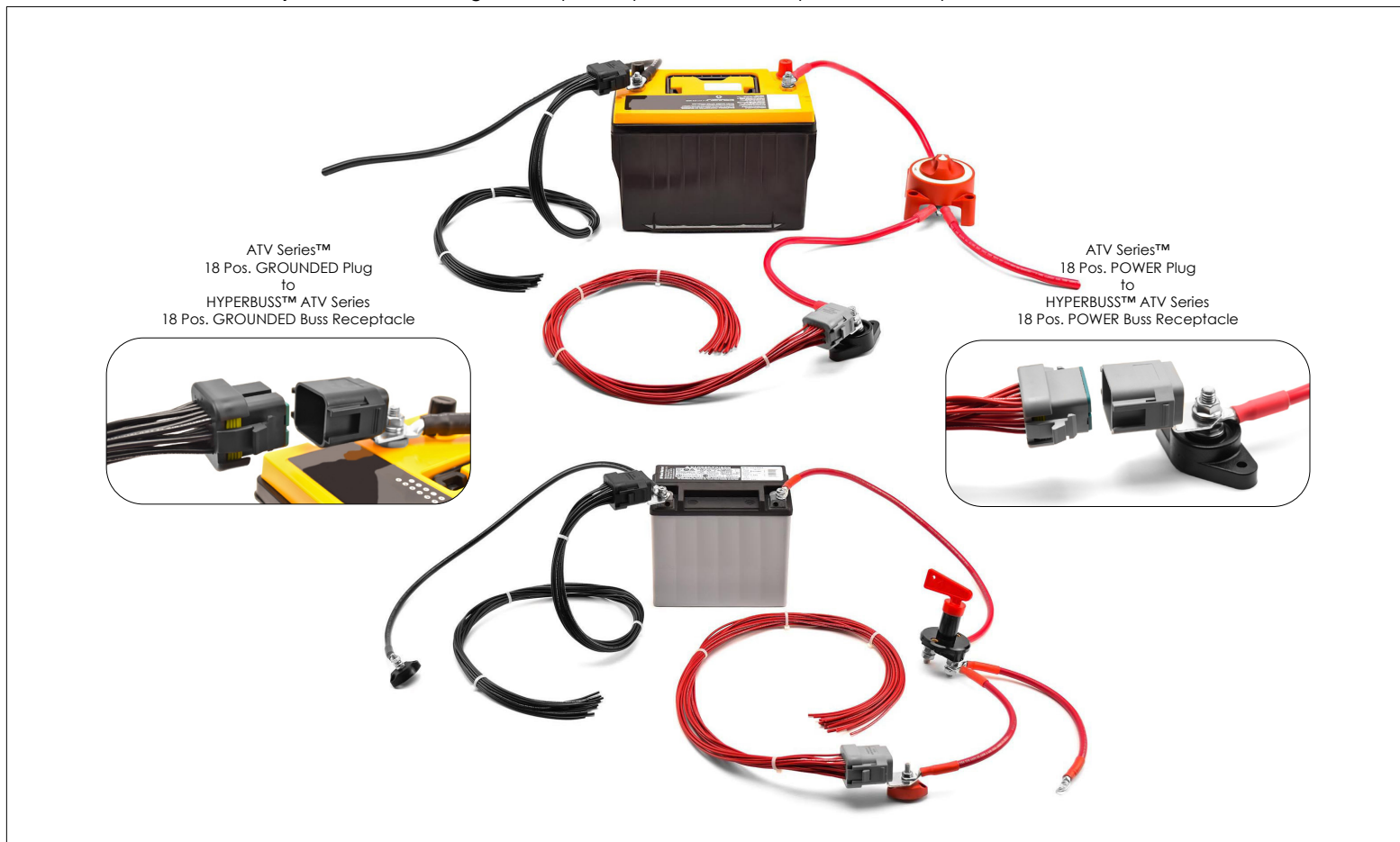
| Image                                                                              | Part Number | Description                                      | Size | Amps |
|------------------------------------------------------------------------------------|-------------|--------------------------------------------------|------|------|
|  | AWV-18S     | 18 Position, ATV SeriesTM, Plug Wedgelock, Green | -    | -    |

**HYPERBUSSTM ATV Series** 18 Position Heavy Duty Bussed Receptacle Kits

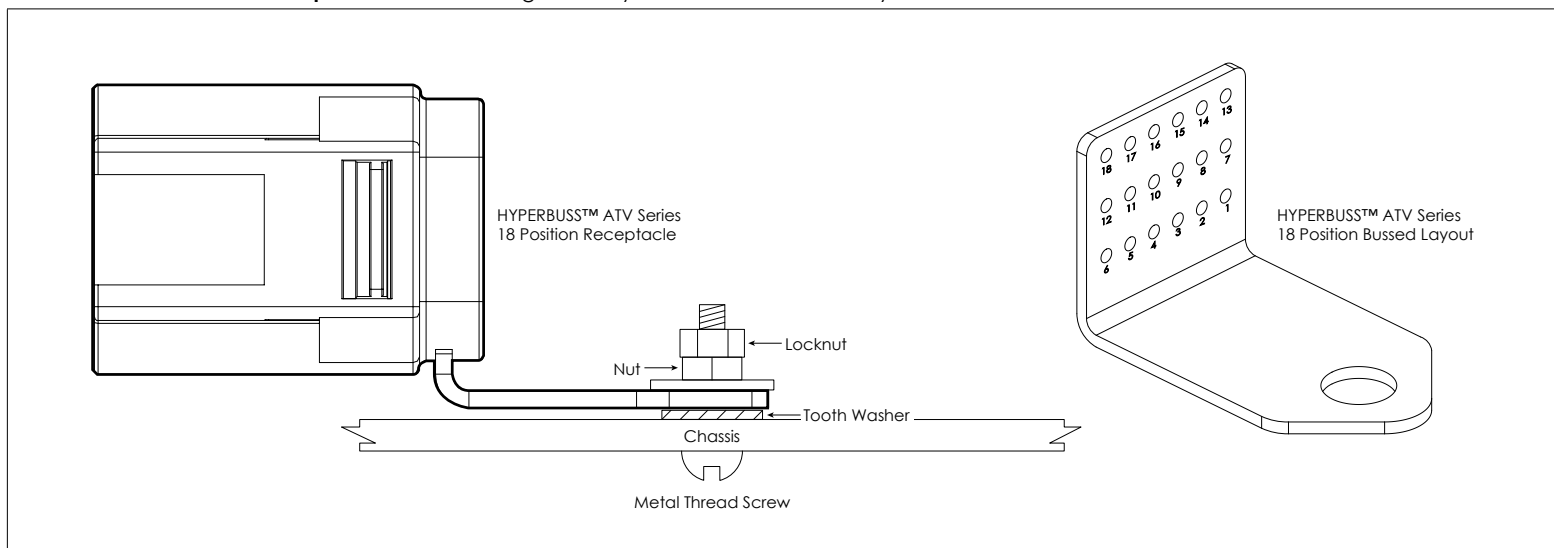
| Image                                                                              | Part Number         | Description                                                                                                                                                                                         | Size | Amps                |
|------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------|
|  | ATV46-18PSA-BUSCKIT | KIT: 18 Position, HYPERBUSSTM ATV Series, Keyed A<br>Contains: (1) 18 Position, HYPERBUSSTM ATV Series, Receptacle, Buss, Key A, Grey<br>Contains: (1) 18 Position, ATV SeriesTM, Plug, Key A, Grey | 16   | 13A<br>(230A Total) |
|                                                                                    | ATV46-18PSB-BUSCKIT | KIT: 18 Position, HYPERBUSSTM ATV Series, Keyed B<br>Contains: (1) 18 Position, HYPERBUSSTM ATV, Receptacle, Buss, Key B, Black<br>Contains: (1) 18 Position, ATV SeriesTM, Plug, Key B, Black      | 16   | 13A<br>(230A Total) |



**HYPERBUSSTM ATV Series Sample Architecture: Plug and Play Battery GROUND/Battery POWER Buss System**



**HYPERBUSSTM ATV Series Sample Architecture: Plug and Play Chassis GROUND Buss System**



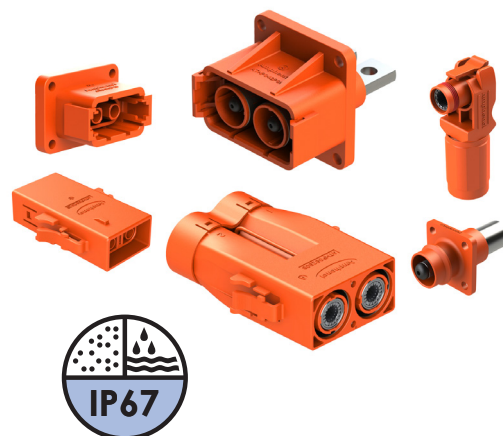
**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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# MM Magna|Mate™ Family

The **MagnaMate™ ATHP Series** is a rugged thermoplastic power connector series featuring high-performance RADSOK® contact technology. Designed for various "xEV" applications, **MagnaMate™** is IP67-rated (mated) and available in single or two-pole housings with rated current from 20A to 180A. **MagnaMate™** includes optional integrated HVIL safety features and EMI shielding protection which can withstand temperatures ranging from -40°C to +130°C.



## MM Magna|Mate™ ATHP

### MagnaMate™ ATHP Standard

Designed to withstand the extreme conditions of the trucking, agricultural, mining, construction, and marine industries, and features Amphenol's advanced RADSOK® contact technology.

**Potential Applications:** Inverters, Power Electric Box, Junction Box, xEV Battery

## MM Magna|Mate™ ATHP Mini

### MagnaMate™ ATHP Mini

A compact, low-profile two-pole thermoplastic power connector which features four (4) keying options for multi polarization. Designed to withstand the extreme conditions of the trucking, agricultural, mining, construction, and marine industries.

**Potential Applications:** Power Converters, Hybrid Electric Vehicles, Heavy Equipment Electrification, 2 and 3-Phase Motors, Starter Generators, Process Control/Automation

## MM Magna|Mate™ ATHP QL

### MagnaMate™ QL ATHP (Quick Lok)

The compact form-factor deliver loads of 130A or 180A for cable outer diameters up to 15.2mm. The definitive front latch design allows for multiple angles of connector engagement providing ease of mating in blind mate or confined spaces achieving IP67 ingress protection. The MagnaMate™ QL ATHP high-voltage connector system is easy to assemble, cost effective and was developed for use in ancillary units such as air-conditioning, electrical heating systems, or AC/DC converters, and for battery charging applications. **QL (Quick Lok) is available in both Black and Orange housings.**

**Potential Applications:** Electrical Air Condition, Battery Charger, Electrical Heater



## A ASeries™ Family



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MagnaMate™ ATHP - Technical Specifications Overview

| Series                | MM Magna Mate™ ATHP                                                                                                                                                                                                                          |  | MM Magna Mate™ ATHP Mini                                                           |        |        | MM Magna Mate™ ATHP QL                                                              |             |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------|-------------|
| Image                 |                                                                                                                                                             |  |  |        |        |  |             |
| Positions             | 2                                                                                                                                                                                                                                            |  | 2                                                                                  |        |        | 1                                                                                   |             |
| Current Rating        | 180A                                                                                                                                                                                                                                         |  | 20A                                                                                | 25A    | 35A    | 130A                                                                                | 180A        |
| Wire Range/mm2        | 50mm 2                                                                                                                                                                                                                                       |  | 2.5mm2                                                                             | 4.0mm2 | 6.0mm2 | 35mm2                                                                               | 50mm2       |
| Cable OD Range        | 15.5-16.5mm                                                                                                                                                                                                                                  |  | 4.8-5.8mm & 6.5-7.5mm                                                              |        |        | 10.7-11.7mm                                                                         | 14.2-15.2mm |
| Operating Voltage     | 1000V AC/DC                                                                                                                                                                                                                                  |  |                                                                                    |        |        |                                                                                     |             |
| Contact Resistance    | <0.3mΩ                                                                                                                                                                                                                                       |  | <2.0mΩ                                                                             |        |        | <0.3 mΩ                                                                             |             |
| HVIL                  | Optional                                                                                                                                                                                                                                     |  | Optional                                                                           |        |        | N/A                                                                                 |             |
| EMC Shielding         | Available                                                                                                                                                                                                                                    |  |                                                                                    |        |        | N/A                                                                                 |             |
| Housing               | Thermoplastic UL94 VO                                                                                                                                                                                                                        |  |                                                                                    |        |        |                                                                                     |             |
| IP Rating             | IP67 mated                                                                                                                                                                                                                                   |  |                                                                                    |        |        |                                                                                     |             |
| 48 HR Salt Spray Test | Passed                                                                                                                                                                                                                                       |  |                                                                                    |        |        |                                                                                     |             |
| Keying Options        | N/A                                                                                                                                                                                                                                          |  | A, B, C, D                                                                         |        |        | Black, Orange                                                                       |             |
| Temperture Range      | -40°C to + 130°C                                                                                                                                                                                                                             |  |                                                                                    |        |        | -55°C to + 125°C                                                                    |             |
| Mating Cycles         | 100 Cycles                                                                                                                                                                                                                                   |  |                                                                                    |        |        | 50 Cycles                                                                           |             |
| Seal Material         | Silicone Rubber                                                                                                                                                                                                                              |  |                                                                                    |        |        |                                                                                     |             |
| Contact Material      | Copper Alloy/Various Plating Options Available                                                                                                                                                                                               |  |                                                                                    |        |        |                                                                                     |             |
| Thermal Cycle         | No cracking, chipping or leaking after 20 test cycles from:                                                                                                                                                                                  |  |                                                                                    |        |        |                                                                                     |             |
|                       | -40°C to +130°C                                                                                                                                                                                                                              |  | -40°C to +130°C                                                                    |        |        | -55°C to + 125°C                                                                    |             |
| Vibration             | No unlocking or unmating. Exhibits no mechanical or physical damage after sinusoidal vibration levels of 20G's at 10 to 2000 Hz in each of the three mutually perpendicular planes. No electrical discontinuities longer than 1 microsecond. |  |                                                                                    |        |        |                                                                                     |             |
| Fluid Resistance      | Connectors show no damage when exposed to most fluids used in industrial application.                                                                                                                                                        |  |                                                                                    |        |        |                                                                                     |             |

# MM MagnaMate™ ATHP

The standard **MagnaMate™ ATHP** is designed to withstand the extreme conditions of the trucking, agricultural, mining, construction, and marine industries, and features Amphenol's advanced RADSOK® contact technology.

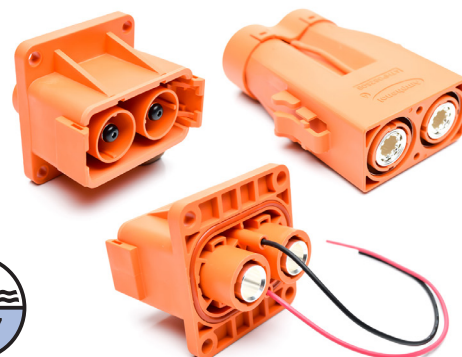
**Potential Applications:** Inverters, Power Electric Box, Junction Box, xEV Battery

## Description

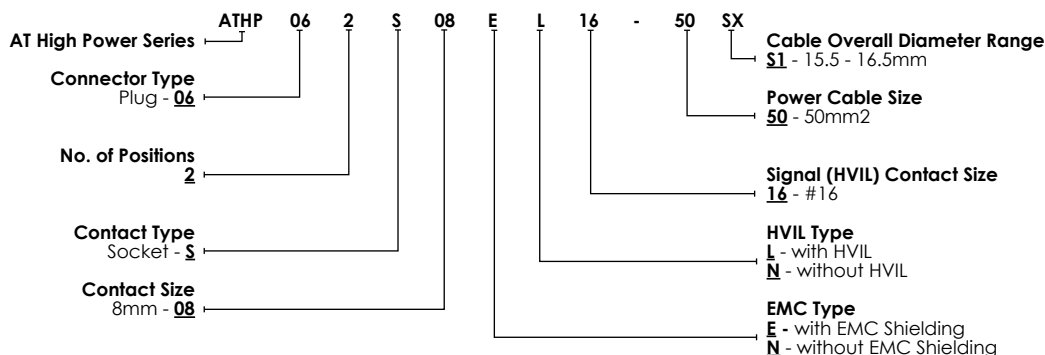
- High Voltage Interlock Loop (HVIL) safety feature optional
- ElectroMagnetic Interference shielding (EMI) for noise immunity optional
- Constructed of heavy-duty thermoplastic
- Inline or panel mount housing options
- Features Amphenol's advanced RADSOK contact technology
- Compact, quick locking and press-to-release design

## Performance

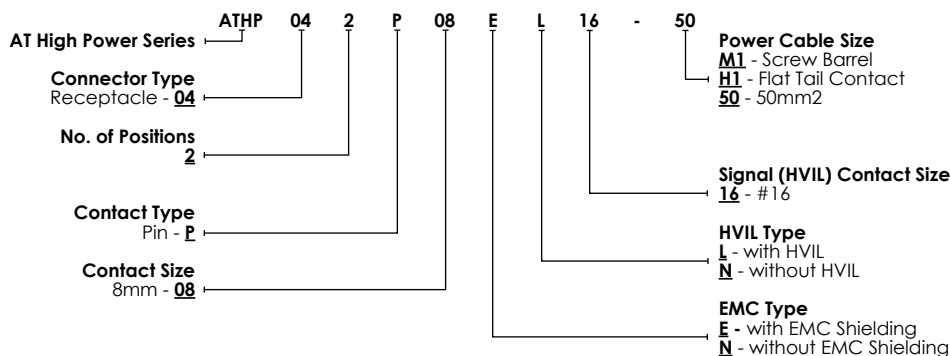
- Current Capacity up to 180A with 50mm<sup>2</sup> wire
- Voltage: 1000V AC/DC
- Temperature Range -40°C TO + 130°C
- IP67-rated (mated)



MagnaMate™ ATHP Standard Plug - Part Numbering Sequence



MagnaMate™ ATHP Standard Receptacles - Part Numbering Sequence



MagnaMate™ ATHP Standard - Plugs and Receptacles

| Part Number         | Type       | Position | Power Contact | Signal (HVIL) Contact Size | Power Cable | Cable OD Range | Voltage |
|---------------------|------------|----------|---------------|----------------------------|-------------|----------------|---------|
| ATHP062S08NL16-50S1 | Plug       | 2        | Socket        | 16                         | 50mm2       | 15.5 - 16.5 mm | 1000    |
| ATHP042P08NL16-50   | Receptacle | 2        | Pin           | 16                         | 50mm2       | -              | 1000    |

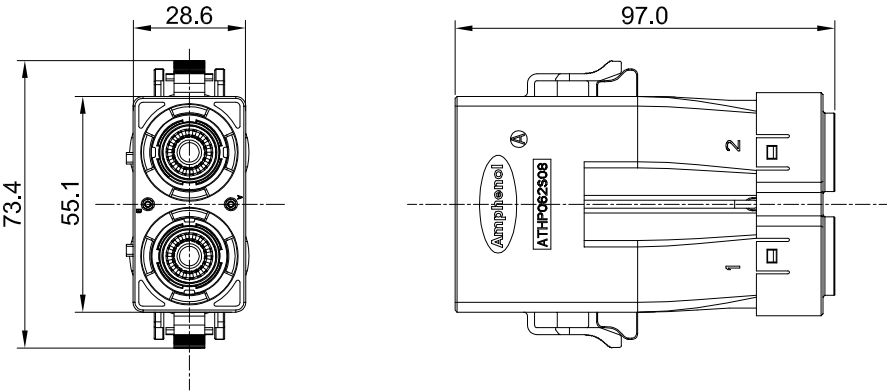
MagnaMate™ ATHP Standard - Plugs and Receptacles with EMC Shielding and High Voltage Interlock Loop

| Part Number         | Type       | Position | Power Contact | Signal (HVIL) Contact Size | Power Cable | Cable OD Range | Voltage |
|---------------------|------------|----------|---------------|----------------------------|-------------|----------------|---------|
| ATHP062S08EL16-50S1 | Plug       | 2        | Socket        | 16                         | 50mm2       | 15.5 - 16.5 mm | 1000    |
| ATHP042P08EL16-50   | Receptacle | 2        | Pin           | 16                         | 50mm2       | -              | 1000    |
| ATHP042P08EL16-H1   | Receptacle | 2        | Pin           | 16                         | -           | -              | 1000    |

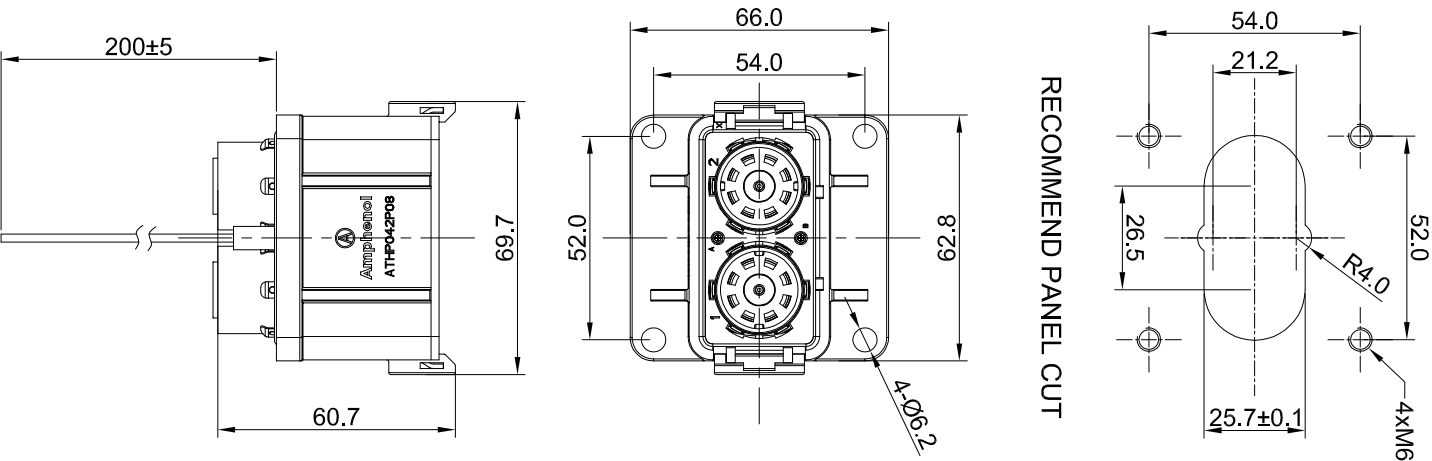
MagnaMate™ ATHP Standard - Tooling

| Part Number | Description                    |
|-------------|--------------------------------|
| QXATHP-50   | Extraction Tool #50mm2 Contact |

MagnaMate™ ATHP Standard - Plug with 8mm RADSOK® Contacts



MagnaMate™ ATHP Standard - Receptacle with 8mm Contacts







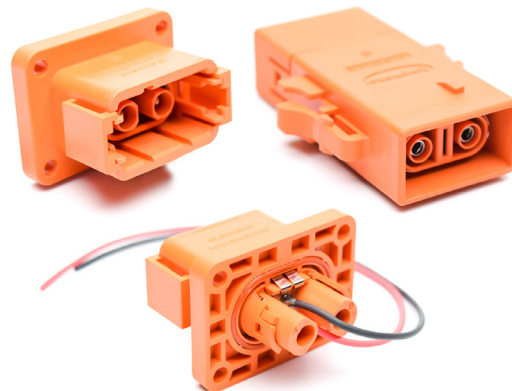
**MagnaMate™ ATHP Mini**

The **MagnaMate™ ATHP Mini** is a compact, low-profile two pole thermoplastic power connector which features four (4) keying options for multi polarization. Designed to withstand the extreme conditions of the trucking, agricultural, mining, construction, and marine industries.

**Potential Applications:** Power Converters, Hybrid Electric Vehicles, Heavy Equipment Electrification, 2 and 3-Phase Motors, Starter Generators, Process Control/Automation

### Description

- High Voltage Interlock Loop (HVIL) safety feature optional
- ElectroMagnetic Interference shielding (EMI) for noise immunity optional
- Constructed of heavy-duty thermoplastic
- Four (4) keying options for multi polarization
- Compact, quick locking and press-to-release design

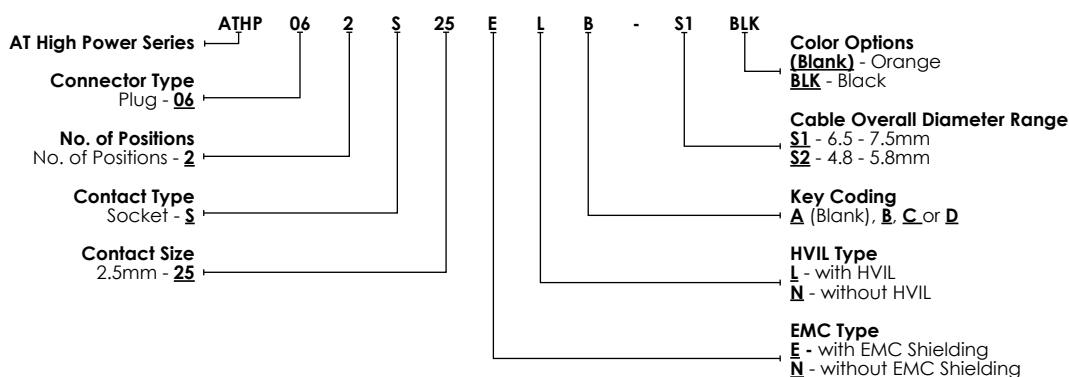


## Performance

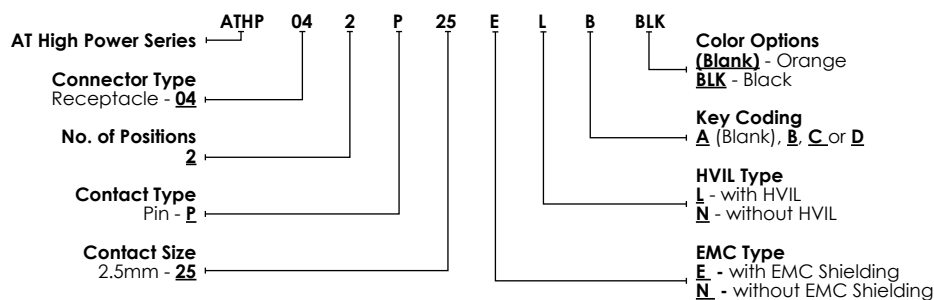
- Current Capacity up to 35A
- Voltage: 1000V AC/DC
- Temperature Range -40°C TO + 130°C
- IP67-rated (mated)



### MagnaMate™ AHP Mini Plugs - Part Numbering Sequence



### MagnaMate™ AHP Mini Receptacles - Part Numbering Sequence



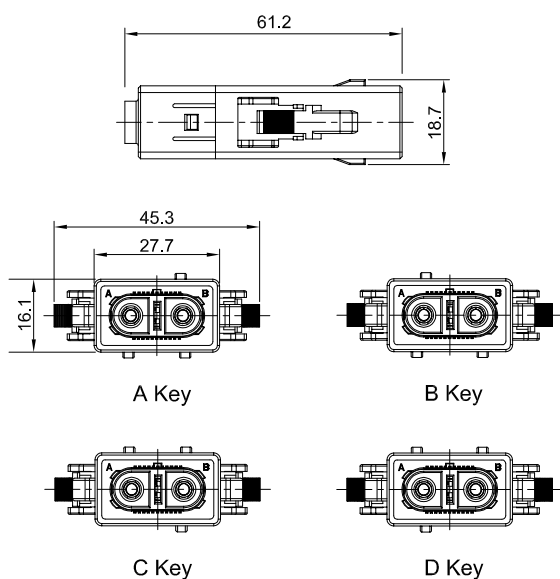
MagnaMate™ ATHP Mini - Plugs with EMC Shielding and High Voltage Interlock Loop

| Part Number      | Type | Position | Power Contact | Keying | Power Cable            | Cable OD Range | Voltage |
|------------------|------|----------|---------------|--------|------------------------|----------------|---------|
| ATHP062S25EL-S1  | Plug | 2        | Socket        | A      | 2.5-6.0mm <sup>2</sup> | 6.5-7.5mm      | 1000    |
| ATHP062S25EL-S2  | Plug | 2        | Socket        | A      | 2.5-6.0mm <sup>2</sup> | 4.8-5.8mm      | 1000    |
| ATHP062S25ELB-S1 | Plug | 2        | Socket        | B      | 2.5-6.0mm <sup>2</sup> | 6.5-7.5mm      | 1000    |
| ATHP062S25ELB-S2 | Plug | 2        | Socket        | B      | 2.5-6.0mm <sup>2</sup> | 4.8-5.8mm      | 1000    |
| ATHP062S25ELC-S1 | Plug | 2        | Socket        | C      | 2.5-6.0mm <sup>2</sup> | 6.5-7.5mm      | 1000    |
| ATHP062S25ELC-S2 | Plug | 2        | Socket        | C      | 2.5-6.0mm <sup>2</sup> | 4.8-5.8mm      | 1000    |
| ATHP062S25ELD-S1 | Plug | 2        | Socket        | D      | 2.5-6.0mm <sup>2</sup> | 6.5-7.5mm      | 1000    |
| ATHP062S25ELD-S2 | Plug | 2        | Socket        | D      | 2.5-6.0mm <sup>2</sup> | 4.8-5.8mm      | 1000    |

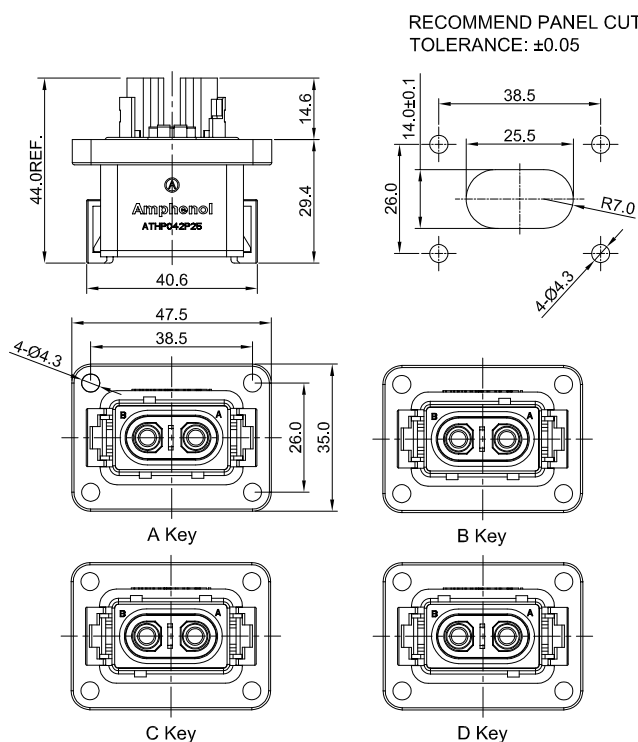
MagnaMate™ ATHP Mini - Receptacles with EMC Shielding and High Voltage Interlock Loop

| Part Number   | Type       | Position | Power Contact | Keying | Power Cable            | Cable OD Range | Voltage |
|---------------|------------|----------|---------------|--------|------------------------|----------------|---------|
| ATHP042P25EL  | Receptacle | 2        | Pin           | A      | 2.5-6.0mm <sup>2</sup> | -              | 1000    |
| ATHP042P25ELB | Receptacle | 2        | Pin           | B      | 2.5-6.0mm <sup>2</sup> | -              | 1000    |
| ATHP042P25ELC | Receptacle | 2        | Pin           | C      | 2.5-6.0mm <sup>2</sup> | -              | 1000    |
| ATHP042P25ELD | Receptacle | 2        | Pin           | D      | 2.5-6.0mm <sup>2</sup> | -              | 1000    |

MagnaMate™ ATHP Mini - Plugs



MagnaMate™ ATHP Mini - Receptacles



MagnaMate™ ATHP Mini - Contacts

| Part Number  | Type   | Style            | Contact Size | Plating    | Crimp Range | Amperage |
|--------------|--------|------------------|--------------|------------|-------------|----------|
| MP10B23F     | Pin    | Machined         | 2.5mm        | Gold Flash | 6mm2        | 35A      |
| MP10B23G10   | Pin    | Machined         | 2.5mm        | Gold       | 6mm2        | 35A      |
| MP10B23G15   | Pin    | Machined         | 2.5mm        | Gold       | 6mm2        | 35A      |
| MP10B23G30   | Pin    | Machined         | 2.5mm        | Gold       | 6mm2        | 35A      |
| MP10B23G5    | Pin    | Machined         | 2.5mm        | Gold       | 6mm2        | 35A      |
| MP10B23S     | Pin    | Machined         | 2.5mm        | Silver     | 6mm2        | 35A      |
| MP10B23T     | Pin    | Machined         | 2.5mm        | Tin        | 6mm2        | 35A      |
| MS10B23F     | Socket | Machined         | 2.5mm        | Gold Flash | 6mm2        | 35A      |
| MS10B23G10   | Socket | Machined         | 2.5mm        | Gold       | 6mm2        | 35A      |
| MS10B23G15   | Socket | Machined         | 2.5mm        | Gold       | 6mm2        | 35A      |
| MS10B23G30   | Socket | Machined         | 2.5mm        | Gold       | 6mm2        | 35A      |
| MS10B23G5    | Socket | Machined         | 2.5mm        | Gold       | 6mm2        | 35A      |
| MS10B23S     | Socket | Machined         | 2.5mm        | Silver     | 6mm2        | 35A      |
| MS10B23T     | Socket | Machined         | 2.5mm        | Tin        | 6mm2        | 35A      |
| SP12A1F      | Pin    | Stamped & Formed | 2.5mm        | Gold Flash | 2.5mm2      | 20A      |
| SP12A1F-10   | Pin    | Stamped & Formed | 2.5mm        | Gold Flash | 4.0mm2      | 25A      |
| SP12A1G10    | Pin    | Stamped & Formed | 2.5mm        | Gold       | 2.5mm2      | 20A      |
| SP12A1G10-10 | Pin    | Stamped & Formed | 2.5mm        | Gold       | 4.0mm2      | 25A      |
| SP12A1G15    | Pin    | Stamped & Formed | 2.5mm        | Gold       | 2.5mm2      | 20A      |
| SP12A1G15-10 | Pin    | Stamped & Formed | 2.5mm        | Gold       | 4.0mm2      | 25A      |
| SP12A1G30    | Pin    | Stamped & Formed | 2.5mm        | Gold       | 2.5mm2      | 20A      |
| SP12A1G30-10 | Pin    | Stamped & Formed | 2.5mm        | Gold       | 4.0mm2      | 25A      |
| SP12A1T      | Pin    | Stamped & Formed | 2.5mm        | Tin        | 2.5mm2      | 20A      |
| SP12A1T-10   | Pin    | Stamped & Formed | 2.5mm        | Tin        | 4.0mm2      | 25A      |
| SS12A1F      | Socket | Stamped & Formed | 2.5mm        | Gold Flash | 2.5mm2      | 20A      |
| SS12A1F-10   | Socket | Stamped & Formed | 2.5mm        | Gold Flash | 4.0mm2      | 25A      |
| SS12A1G10    | Socket | Stamped & Formed | 2.5mm        | Gold       | 2.5mm2      | 20A      |
| SS12A1G10-10 | Socket | Stamped & Formed | 2.5mm        | Gold       | 4.0mm2      | 25A      |
| SS12A1G15    | Socket | Stamped & Formed | 2.5mm        | Gold       | 2.5mm2      | 20A      |
| SS12A1G15-10 | Socket | Stamped & Formed | 2.5mm        | Gold       | 4.0mm2      | 25A      |
| SS12A1G30    | Socket | Stamped & Formed | 2.5mm        | Gold       | 2.5mm2      | 20A      |
| SS12A1G30-10 | Socket | Stamped & Formed | 2.5mm        | Gold       | 4.0mm2      | 25A      |
| SS12A1T      | Socket | Stamped & Formed | 2.5mm        | Tin        | 2.5mm2      | 20A      |
| SS12A1T-10   | Socket | Stamped & Formed | 2.5mm        | Tin        | 4.0mm2      | 25A      |

MagnaMate™ ATHP Mini - Tooling

| Part Number | Description                   |
|-------------|-------------------------------|
| QXRT12S     | Extraction Tool 2.5mm Contact |



**RADSOK® Contact Technology** is based upon a stamped and formed flat grid, uniquely twisted into a hyperbolic geometry to provide robust, high density contact to the mating pin contact. Most pin and socket technologies rely on spring (beam element) properties of the contact elements, which tend to weaken over time. Unlike most other pin and socket solutions, the **RADSOK®** also utilizes the tensile strength properties of the flat, high conductivity alloy grid. This provides the high normal forces required for conductivity while also providing a large conductive surface area. Correspondingly low voltage drop and low temperature rise are also achieved while maintaining low insertion forces.



#### The RADSOK® Design

- Socket cylinder within female contact has several equally spaced longitudinal beams twisted into a hyperbolic shape
- As a male pin is inserted, axial members in the female half deflect, imparting high current flow across the connection with minimal voltage loss
- The hyperbolic, stamped grid configuration ensures a large, coaxial, face-to-face surface area engagement
- Ideal for crimp termination applications requiring repeated mating cycles and high current with a low multi-volt drop

#### RADSOK® Technology Advantages

- **High Reliability** - Unique design and construction technology create an electrical contact interface that exceeds typical interconnect requirements.
- **Low Contact Engagement/Separation Forces** - The hyperbolic lamella socket contact construction distributes normal forces over a high percentage of the mating pin surface. This creates a smooth, even engagement effort. This force distribution also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.
- **Low Contact Resistance** - The large interface area between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK® contacts' high current ratings compared to traditional power contact designs.
- **High Mating Cycle Durability** - RADSOK® contacts with typical silver plating finishes have demonstrated survival of 20,000 mating cycles. Specialized plating and contact lubricants can extend cycle life to 200,000 matings or higher. Even with continuous exposure to harsh environmental abuse, RADSOK® contacts have been tested to maintain low contact resistance beyond 10,000 mating cycles.

#### Standard and Custom-Developed Solutions

- In addition to the various standard sizes of RADSOK® components, custom-developed solutions are also available. Amphenol has the global design, engineering and manufacturing resources to provide RADSOK® sockets pressed into busbars, crimped to cables, assembled into connectors, assembled into customer or Amphenol designed specialized electrical devices, or as stand-alone components. Amphenol also manufactures a full compliment of mating pin contacts for any application.
- Steady-state current capacities for RADSOK® products range from 50 amps to over 1000 amps.
- Amphenol connectors with RADSOK® contacts are offered with a variety of positive-locking features (HiLok® and SurLok®) that insure and maintain fully-mated connections.
- Sealing (Sealtac™) and high voltage hot break options are available within the RADSOK® itself or within a very wide range of IP rated connector housings to provide environmental protection to the contact area.

# MM MagnaMate™ ATHP QL

**MagnaMate™ QL ATHP (Quick Lok)** connectors compact form factor deliver loads of 130A or 180A for cable outer diameters up to 15.2mm. The definitive front latch design allows for multiple angles of connector engagement providing ease of mating in blind mate or confined spaces achieving IP67 ingress protection. The MagnaMate™ QL ATHP high-voltage connector system is easy to assemble, cost effective and was developed for use in ancillary units such as air-conditioning, electrical heating systems, or AC/DC converters, and for battery charging applications. **QL (Quick Lok) is available in both Black and Orange housings.**

**Potential Applications:** Electrical Air Condition, Battery Charger, Electrical Heater

## Description

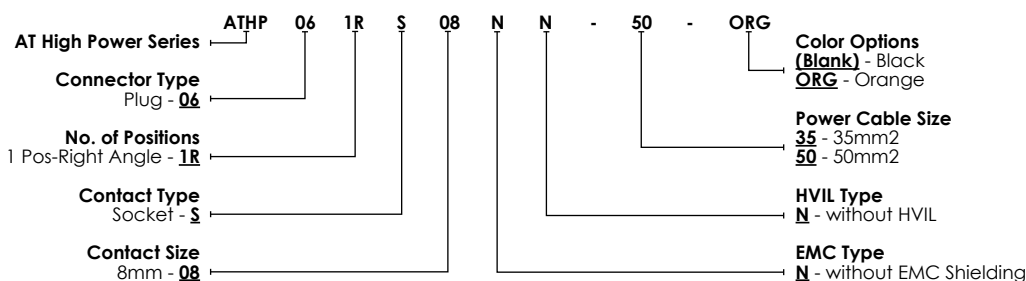
- Right Angle Plug Design
- Blind Mate Compatibility
- Compact, quick locking and press-to-release design
- Constructed of heavy-duty thermoplastic

## Performance

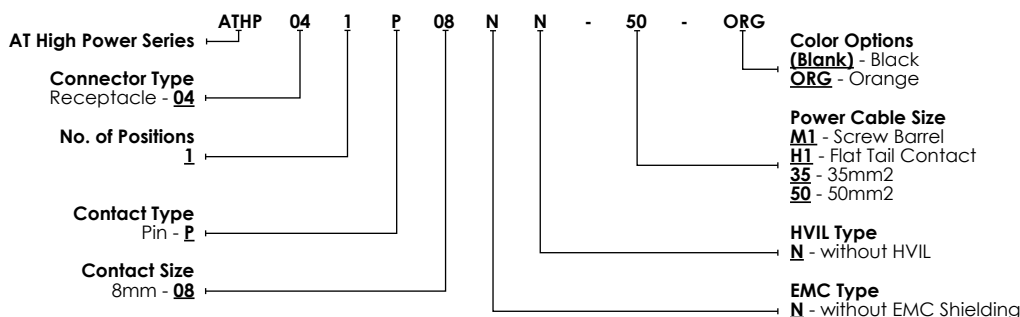
- Current Capacity up to 180A
- Voltage: 1000V AC/DC
- Temperature Range -55°C TO + 125°C
- IP67-rated (mated)



MagnaMate™ ATHP QL Plug - Part Numbering Sequence



MagnaMate™ ATHP QL Receptacles - Part Numbering Sequence





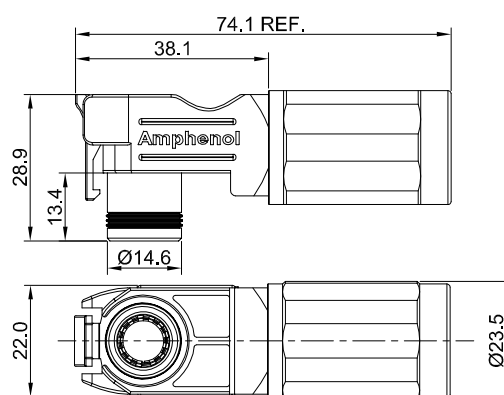
MagnaMate™ ATHP QL - Plug with EMC Shielding and High Voltage Interlock Loop

| Part Number      | Type | Position | Power Contact | Keying | Cable O.D. Range | Voltage |
|------------------|------|----------|---------------|--------|------------------|---------|
| ATHP061RS08NN-50 | Plug | 1        | Socket        | -      | 14.2-15.2mm      | 1000    |
| ATHP061RS08NN-35 | Plug | 1        | Socket        | -      | 10.7-11.7mm      | 1000    |

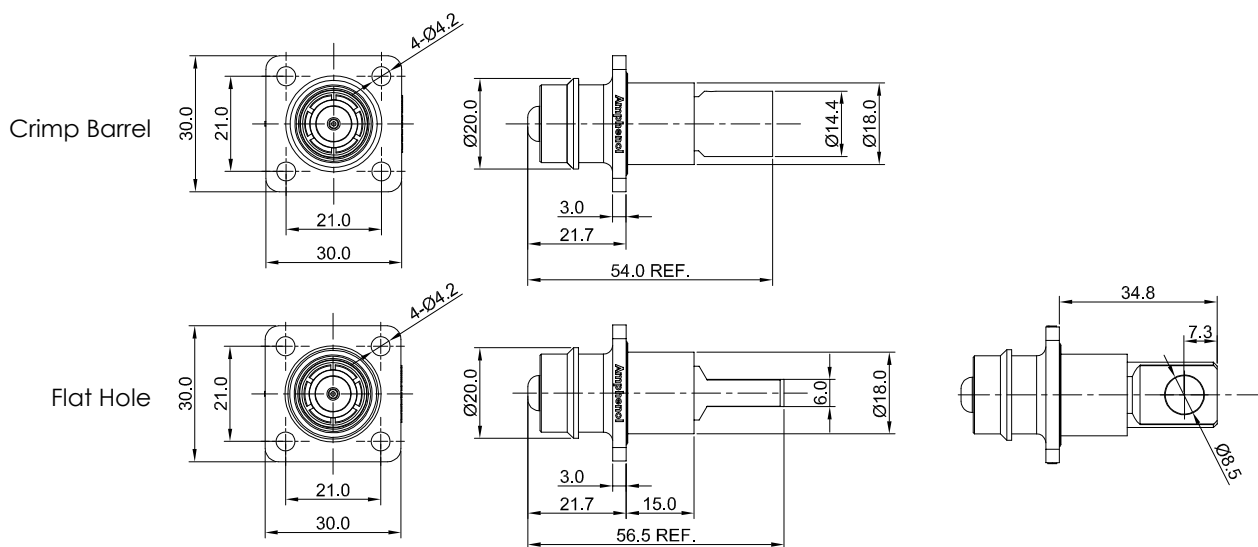
MagnaMate™ ATHP QL - Receptacle with EMC Shielding and High Voltage Interlock Loop

| Part Number     | Type       | Position | Power Contact | Keying | Wire Range | Voltage |
|-----------------|------------|----------|---------------|--------|------------|---------|
| ATHP041P08NN-H1 | Receptacle | 1        | Pin           | -      | -          | 1000    |
| ATHP041P08NN-50 | Receptacle | 1        | Pin           | -      | 50mm²      | 1000    |
| ATHP041P08NN-35 | Receptacle | 1        | Pin           | -      | 35mm²      | 1000    |

MagnaMate™ ATHP QL - Plugs



MagnaMate™ ATHP QL - Receptacles



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

© 2019 Amphenol Sine Systems Corporation, 44724 Morley Drive, Clinton Township MI 48036 USA. [www.amphenol-sine.com](http://www.amphenol-sine.com). Customer Service +1 800 394 7732 Every effort has been made to ensure that the information contained in this document is accurate at the time of publication. Specifications or information stated in this document are subject to change without notice.



# MM Multi|Mate™

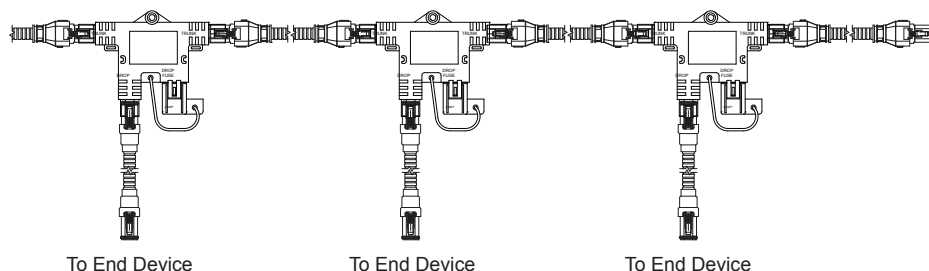


Trunk (Size 12, 25A Max) and Drop (Size 16, 13A Max), or  
Trunk (Size 16, 13A Max) and Drop (Size 16, 13A Max)

Amphenol Sine Systems' MultiMate™ expands upon the proven reliability of the A Series™ environmentally sealed thermoplastic connection system with rugged over-molded "Plug & Play" connection types for power, signal and data for your diverse electrical requirements. Today's ever evolving wiring protocols have dictated the rapid acceleration of "Quick-Connect" topologies increasing designers options with streamlined and proven connectivity systems. The objective is to provide cost reductions within all phases of design, installation and service of pre-existing electrical architectures by simplifying your wiring requirements. Cable requirements can be ordered as complete assemblies direct from Amphenol or assembled at time of installation, this system is ideal for heavy-duty applications such as commercial vehicle, agriculture, construction or marine installations.

## Features and Benefits

- Rapid install due to scalable modular design at startup
- Faster commissioning with reliable "Plug & Play" capability dramatically reduces cost
- Fuse protection provides protection for "Drop" device.
- Lower fused values possible at device versus main "Trunk"
- Accepts any standard automotive "ATO" fuse
- Quick disconnects minimize downtime from removal or replacement of failed equipment
- High strength impact resistant & lightweight thermoplastic housings
- Contacts available in economical reel-mounted high volume machine termination or machined loose-piece form.
- Low insertion force stamped terminals offer improved manufacturing efficiencies
- Engineered rapid and secure mating system achieves IP67 protection from ingress of dust, water mud and other contaminants
- Redundant sealing features consisting of durable high temperature silicone provide barrier from lubricating oils, hydraulic fluids and fossil fuels.
- Rigid back shells provide strain-relief for convoluted tubing.



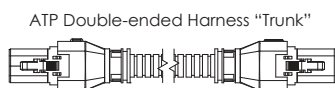
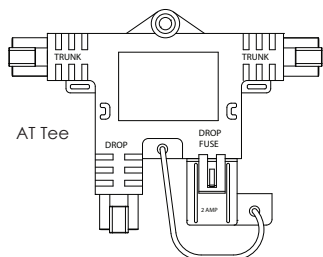
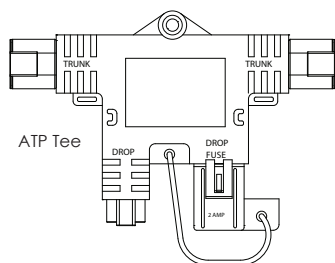
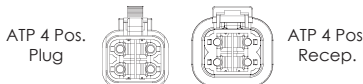
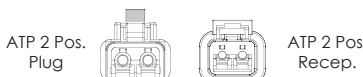
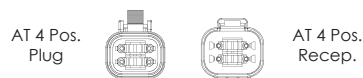
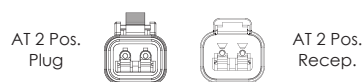
The MultiMate™ system meets all the performance criteria and specifications of the AT and ATP Series™ of connectors. For more information, refer to the AT and ATP Series™ documentation found online, or contact Customer Service.



**A Series™ Family**



Standard products. Custom solutions  
Customer Service +1 800 394 7732



| Part Number | Description - Panel Mount Receptacles with Wire Leads                  |
|-------------|------------------------------------------------------------------------|
| P31142-XX   | ATP, 2 Position Panel Recep., Male(Size 12) with 12AWG Wire Leads, 25A |
| P31143-XX   | ATP, 4 Position Panel Recep., Male(Size 12) with 12AWG Wire Leads, 25A |
| P31144-XX   | AT, 2 Position Panel Recep., Male(Size 16) with 14AWG Wire Leads, 13A  |
| P31145-XX   | AT, 4 Position Panel Recep., Male(Size 16) with 14AWG Wire Leads, 13A  |

| Part Number | Description - Tee's                                                                    |
|-------------|----------------------------------------------------------------------------------------|
| P31134      | ATP, Tee, 2 Position Recep., Male, 25A (Trunk), Recep. Male, 13A (Drop) w/ fuse holder |
| P31135      | ATP, Tee, 2 Position Recep., Male 25A (Trunk), Recep. Male, 13A (Drop)                 |
| P31136      | ATP, Tee, 4 Position Recep., Male, 25A (Trunk), Recep. Male, 13A (Drop) w/ fuse holder |
| P31137      | ATP, Tee, 4 Position Recep., Male, 25A (Trunk), Recep. Male, 13A (Drop)                |
| P31138      | AT, Tee, 2 Position, Recep. Male, 13A (Trunk), Recep. Male, 13A (Drop) w/ fuse holder  |
| P31139      | AT, Tee, 2 Position, Recep. Male, 13A (Trunk), Recep. Male, 13A (Drop)                 |
| P31140      | AT, Tee, 4 Position, Recep. Male, 13A (Trunk), Recep. Male, 13A (Drop) w/ fuse holder  |
| P31141      | AT, Tee, 4 Position, Recep. Male, 13A (Trunk), Recep. Male, 13A (Drop)                 |

| Part Number | Description - Double-ended Harness "Trunk"                                                                                   |
|-------------|------------------------------------------------------------------------------------------------------------------------------|
| P31146-XX   | ATP, 2 Position Plug(Size 12) Double-ended Harness Female, w/ 12AWG Wire Leads & Tubing, 25A                                 |
| P31147-XX   | ATP, 4 Position Plug(Size 12) Double-ended Harness Female, w/ 12AWG Wire Leads & Tubing, 25A                                 |
| P31148-XX   | ATP, 4 Position Double-ended Harness Plug Female, w/ 2 Pos.(Size 12) 12AWG(25A) & 2 Pos., "Can Lo/Can Hi" 18AWG, with Tubing |
| P31149-XX   | AT, 2 Position(Size 16) Double-ended Harness Plug Female, w/ 16AWG Wire Leads & Tubing, 13A                                  |
| P31150-XX   | AT, 4 Position(Size 16) Double-ended Harness Plug Female, w/ 16AWG Wire Leads & Tubing, 13A                                  |
| P31151-XX   | AT, 4 Position Double-ended Harness Plug Female, w/ 2 Pos.(Size 16) 16AWG(13A) & 2 Pos., "Can Lo/Can Hi" 18AWG, with Tubing  |

| Part Number | Description - Double-ended Harness "Drop"                                                    |
|-------------|----------------------------------------------------------------------------------------------|
| P31149-XX   | AT, 2 Position, (Size 16) Double-ended Harness Plug Female w/ 16AWG Wire Leads & Tubing, 13A |
| P31150-XX   | AT, 4 Position, (Size 16) Double-ended Harness Plug Female w/ 16AWG Wire Leads & Tubing, 13A |

| Part Number | Description - Plug "Terminators"                                       |
|-------------|------------------------------------------------------------------------|
| P31172      | AT, 2 Position, Plug Terminator Female, (Size 16)                      |
| P31173      | AT, 4 Position, Plug Terminator Female, (Size 16)                      |
| P31174      | AT, 4 Position, Plug Terminator Female, (Size 16) w/ 120 ohm resistor  |
| P31175      | ATP, 2 Position, Plug Terminator Female, (Size 12)                     |
| P31176      | ATP, 4 Position, Plug Terminator Female, (Size 12)                     |
| P31177      | ATP, 4 Position, Plug Terminator Female, (Size 12) w/ 120 ohm resistor |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)



# PM PanelMate™ Family

**PanelMate™ AT: 2, 3, 4, 6, 8, 12, 13 and 18 position**

**PanelMate™ ATM: 12 position**

**PanelMate™ ATP: 2, 4 and 6 position**

**PanelMate™ ATHD: Single Position**



Amphenol Sine Systems' **PanelMate™ Family of Receptacles** are engineered with a one-piece, sealed, flanged design for rapid and secure mounting. Their durable, high-temperature, silicone, facial seal provides a barrier of protection from lubricating oils, hydraulic fluids and fossil fuels to withstand the challenges and complexities of harsh environment applications. Also available in a two-piece, sonically-welded, flange design for applications requiring an externally operated connection with 4 pass through holes. All **PanelMate™** product lines accept A Series™ components and are compatible with other industry standard mating connectors.

Our **PanelMate™ AT, ATM, ATP and ATHD Series** meet all the performance criteria and specifications of the AT, ATM, ATP and ATHD Series™, and is available in a variety of color modifications. Contact Customer Service for more information.

**Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy, Agricultural and other demanding interconnect architectures

## Features

- Flanged or Flangeless; 180° Straight or 90° Right Angle Pin Orientation
- High-temperature silicone seals provide superior sealing
- Compatible with existing standard products industry-wide
- Thermoplastic housing with integrated latch for mating
- Wedgelocks ensure proper contact alignment & retention
- Wide variety of optional back end configurations

## PanelMate™ Family Specifications Overview

|                              |                                                                                                                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wire Range                   | <b>PanelMate™ AT:</b> Size 16 (14-20AWG); <b>PanelMate™ ATM:</b> Size 20 (16-22AWG)<br><b>PanelMate™ ATP:</b> Size 12 (10-14AWG); <b>PanelMate™ ATHD:</b> Size 4 (4-6AWG), Size 8 (8-10AWG), Size 12 (10-14AWG)                                                                       |
| Amperage                     | <b>PanelMate™ AT:</b> 2-12 position: Size 16 (13A); 13 position: Size 12 (25A), Size 16 (13A); <b>PanelMate™ ATM:</b> 12 position: Size 20 (7.5A); <b>PanelMate™ ATP:</b> 2-6 position: Size 12 (25A); <b>PanelMate™ ATHD:</b> 1 position: Size 4 (100A), Size 8 (60A), Size 12 (25A) |
| Operating Temperature        | -55°C to +125°C                                                                                                                                                                                                                                                                       |
| Housing/Latch                | Thermoplastic/Integrated latch for mating                                                                                                                                                                                                                                             |
| IP Rating (mated)            | IP68 (1M of water for 24 hours), IP69K                                                                                                                                                                                                                                                |
| Dielectric Value             | Meets or exceeds 1500 volts minimum                                                                                                                                                                                                                                                   |
| Drop Test                    | Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times                                                                                                                                                                                        |
| Shock                        | No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)                                                                                                                                                                 |
| Vibration                    | Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)                                                                                                                               |
| Connector Terminal Retention | When subjected to a direct pull, contacts achieve a minimum pull-out force of 25 lbs.                                                                                                                                                                                                 |
| Connector Retention          | A mated connector subjected to a pulling force by the exiting wire bundle at 25 lbs. times the number of contacts to a maximum of 100 lbs. applying load for 30 seconds                                                                                                               |
| Thermal Shock                | Subjected to 10 cycles at -55°C to +125°C with no cracking/chipping/damage detrimental to the normal operation of the connector                                                                                                                                                       |
| Insulation Resistance        | 1000 megohms minimum at 25°C                                                                                                                                                                                                                                                          |
| Mating Cycle Durability      | Following 100 cycles of connection engagement/disengagement, neither mechanical/electrical degradation is evident                                                                                                                                                                     |



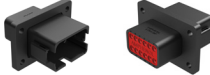
**A Series™ Family**



Standard products. Custom solutions  
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## Back End Configurations (Colors Vary)

|                                                                                                                                                                             |                                                                                                                                                                                     |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>-BL04</b><br>Welded Flange, Grey Body, Enhanced Key, Std Rear Seal (Red)            | <br><b>-BL05</b><br>Welded Flange, Grey Body, Enhanced Key, End Cap, Standard Dia. Rear Seal (Red) | <br><b>-BL08</b><br>Welded Flange, Black Body, Enhanced Key, Std Dia. Rear Seal (Red) | <br><b>-CL03</b><br>Welded Flange, Grey Body, Reduced Dia. Rear Seal (Green)        | <br><b>-CL06</b><br>Welded Flange, Black Body, Reduced Dia. Rear Seal (Green)        |
| <br><b>-EC</b><br>End Cap                                                                  | <br><b>-G</b><br>Gasket                                                                            | <br><b>-GEC</b><br>Gasket, End Cap                                                    | <br><b>-L009</b><br>Sealed Flange, Inside Mount                                     | <br><b>-L012</b><br>Welded Flange, Grey Body                                         |
| <br><b>-L013</b><br>Sealed Flange, Outside Mount                                           | <br><b>-LE07</b><br>Welded Flange, End Cap                                                         | <br><b>-LE08</b><br>Welded Flange, Grey Body, Shrink Boot End Cap                     | <br><b>-LE12</b><br>Welded Flange, Black Body, Shrink Boot End Cap                  | <br><b>-LE14</b><br>Welded Flange, Black Body                                        |
| <br><b>-PM01</b><br>Welded Flange, Standard Dia. Rear Seal (Red)                           | <br><b>-PM02</b><br>Welded Flange, Reduced Dia. Rear Seal (Green)                                  | <br><b>-PM05</b><br>Threaded Insert, Gasket, Standard Dia. Rear Seal (Red)            | <br><b>-PM06</b><br>Threaded Insert, Gasket, Reduced Dia. Rear Seal (Green)         | <br><b>-PM07</b><br>Self-Threading, End Cap, Standard Dia. Rear Seal (Red)           |
| <br><b>-PM08</b><br>Self-Threading, Standard Dia. Rear Seal (Red)                         | <br><b>-PM11</b><br>Self-Threading, Gasket, Standard Dia. Rear Seal (Red)                         | <br><b>-PM12</b><br>Self-Threading, Gasket, Reduced Dia. Rear Seal (Green)           | <br><b>-PM13</b><br>Self-Threading, End Cap, Gasket, Standard Dia. Rear Seal (Red) | <br><b>-PM14</b><br>Self-Threading, End Cap, Gasket, Reduced Dia. Rear Seal (Green) |
| <br><b>-PM15</b><br>Self-Threading, Gasket, Strain Relief, Standard Dia. Rear Seal (Red) | <br><b>-PM16</b><br>Self-Threading, Gasket, Strain Relief, Reduced Dia. Rear Seal (Green)        | <br><b>-RD</b><br>Reduced Dia. Rear Seal (Green)                                    | <br><b>-RDG</b><br>Gasket, Reduced Dia. Rear Seal (Green)                         |                                                                                                                                                                         |

## 2 Position - PanelMate™ AT Receptacles and Wedgelocks

| Image                                                                               | Part Number  | Description                                                                                                                                                                                       | Size | Amp |
|-------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT04-2P-PM11 | 2 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW2P. Keyed Options Available.)                 | 16   | 13A |
|  | AT04-2P-PM12 | 2 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW2P. Keyed Options Available.)                | 16   | 13A |
|  | AT04-2P-PM13 | 2 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AW2P. Keyed Options Available.)        | 16   | 13A |
|  | AT04-2P-PM14 | 2 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AW2P. Keyed Options Available.)       | 16   | 13A |
|  | AT04-2P-PM15 | 2 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Black Body (Requires Wedgelock AW2P. Keyed Options Available.)  | 16   | 13A |
|  | AT04-2P-PM16 | 2 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AW2P. Keyed Options Available.) | 16   | 13A |



2 Position - **PanelMate™ AT** Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number | Description                                                     | Size | Amp |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------|------|-----|
|  | AW2P        | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Green          | -    | -   |
|  | AW2P-A      | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Keyed A, Grey  | -    | -   |
|  | AW2P-B      | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Keyed B, Black | -    | -   |
|  | AW2P-C      | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Keyed C, Green | -    | -   |
|  | AW2P-D      | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Keyed D, Brown | -    | -   |

 3 Position - **PanelMate™ AT** Receptacles and Wedgelocks

|                                                                                     |              |                                                                                                                                                                                                   |    |     |
|-------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | AT04-3P-PM05 | 3 Position, Receptacle with Flange, Pin, PanelMate™ AT, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW3P. Keyed Options Available.)                 | 16 | 13A |
|    | AT04-3P-PM11 | 3 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW3P. Keyed Options Available.)                 | 16 | 13A |
|    | AT04-3P-PM12 | 3 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW3P. Keyed Options Available.)                | 16 | 13A |
|   | AT04-3P-PM13 | 3 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AW3P. Keyed Options Available.)        | 16 | 13A |
|  | AT04-3P-PM14 | 3 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AW3P. Keyed Options Available.)       | 16 | 13A |
|  | AT04-3P-PM15 | 3 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Black Body (Requires Wedgelock AW3P. Keyed Options Available.)  | 16 | 13A |
|  | AT04-3P-PM16 | 3 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AW3P. Keyed Options Available.) | 16 | 13A |
|  | AW3P         | 3 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                                                            | -  | -   |
|  | AW3P-J1939   | 3 Position, Receptacle Wedgelock, PanelMate™ AT, Keyed J-1939, Blue                                                                                                                               | -  | -   |

 4 Position - **PanelMate™ AT** Receptacles and Wedgelocks

|                                                                                     |              |                                                                                                                                                                        |    |     |
|-------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-4P-PM11 | 4 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW4P)                | 16 | 13A |
|  | AT04-4P-PM12 | 4 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW4P)               | 16 | 13A |
|  | AT04-4P-PM13 | 4 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AW4P)       | 16 | 13A |
|  | AT04-4P-PM14 | 4 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AW4P)      | 16 | 13A |
|  | AT04-4P-PM15 | 4 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Black Body (Requires Wedgelock AW4P) | 16 | 13A |

4 Position - **PanelMate™ AT** Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number  | Description                                                                                                                                                             | Size | Amp |
|-----------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT04-4P-PM16 | 4 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AW4P) | 16   | 13A |
|  | AW4P         | 4 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                                  | -    | -   |

 6 Position - **PanelMate™ AT** Receptacles and Wedgelocks

|                                                                                     |              |                                                                                                                                                                         |    |     |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | AT04-6P-PM05 | 6 Position, Receptacle with Flange, Pin, PanelMate™ AT, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW6P)                 | 16 | 13A |
|    | AT04-6P-PM11 | 6 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW6P)                 | 16 | 13A |
|    | AT04-6P-PM12 | 6 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW6P)                | 16 | 13A |
|    | AT04-6P-PM13 | 6 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AW6P)        | 16 | 13A |
|    | AT04-6P-PM14 | 6 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AW6P)       | 16 | 13A |
|   | AT04-6P-PM15 | 6 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Black Body (Requires Wedgelock AW6P)  | 16 | 13A |
|  | AT04-6P-PM16 | 6 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AW6P) | 16 | 13A |
|  | AW6P         | 6 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                                  | -  | -   |

 8 Position - **PanelMate™ AT** Receptacles and Wedgelocks

|                                                                                     |                |                                                                                                                                                                  |    |     |
|-------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-08PA-PM05 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Keyed A, Grey Body (Requires Wedgelock AW8P) | 16 | 13A |
|  | AT04-08PA-PM11 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Keyed A, Grey Body (Requires Wedgelock AW8P)  | 16 | 13A |
|  | AT04-08PB-PM11 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Keyed B, Black Body (Requires Wedgelock AW8P) | 16 | 13A |
|  | AT04-08PC-PM11 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Keyed C, Green Body (Requires Wedgelock AW8P) | 16 | 13A |
|  | AT04-08PD-PM11 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Keyed D, Brown Body (Requires Wedgelock AW8P) | 16 | 13A |

8 Position - **PanelMate™ AT** Receptacles and Wedgelocks, cont.

| Image                                                                               | Part Number    | Description                                                                                                                                                                     | Size | Amp |
|-------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT04-08PA-PM12 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Keyed A, Grey Body (Requires Wedgelock AW8P)                | 16   | 13A |
|    | AT04-08PB-PM12 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Keyed B, Black Body (Requires Wedgelock AW8P)               | 16   | 13A |
|    | AT04-08PC-PM12 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Keyed C, Green Body (Requires Wedgelock AW8P)               | 16   | 13A |
|    | AT04-08PD-PM12 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Keyed D, Brown Body (Requires Wedgelock AW8P)               | 16   | 13A |
|    | AT04-08PA-PM13 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed A, Grey Body (Requires Wedgelock AW8P)        | 16   | 13A |
|    | AT04-08PB-PM13 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed B, Black Body (Requires Wedgelock AW8P)       | 16   | 13A |
|   | AT04-08PC-PM13 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed C, Green Body (Requires Wedgelock AW8P)       | 16   | 13A |
|  | AT04-08PD-PM13 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed D, Brown Body (Requires Wedgelock AW8P)       | 16   | 13A |
|  | AT04-08PA-PM14 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed A, Grey Body (Requires Wedgelock AW8P)       | 16   | 13A |
|  | AT04-08PB-PM14 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed B, Black Body (Requires Wedgelock AW8P)      | 16   | 13A |
|  | AT04-08PC-PM14 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed C, Green Body (Requires Wedgelock AW8P)      | 16   | 13A |
|  | AT04-08PD-PM14 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed D, Brown Body (Requires Wedgelock AW8P)      | 16   | 13A |
|  | AT04-08PA-PM15 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Keyed A, Grey Body (Requires Wedgelock AW8P)  | 16   | 13A |
|  | AT04-08PB-PM15 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Keyed B, Black Body (Requires Wedgelock AW8P) | 16   | 13A |
|  | AT04-08PC-PM15 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Keyed C, Green Body (Requires Wedgelock AW8P) | 16   | 13A |

8 Position - **PanelMate™ AT** Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number    | Description                                                                                                                                                                      | Size | Amp |
|-----------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT04-08PD-PM15 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Keyed D, Brown Body (Requires Wedgelock AW8P)  | 16   | 13A |
|  | AT04-08PA-PM16 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed A, Grey Body (Requires Wedgelock AW8P)  | 16   | 13A |
|  | AT04-08PB-PM16 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed B, Black Body (Requires Wedgelock AW8P) | 16   | 13A |
|  | AT04-08PC-PM16 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed C, Green Body (Requires Wedgelock AW8P) | 16   | 13A |
|  | AT04-08PD-PM16 | 8 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed D, Brown Body (Requires Wedgelock AW8P) | 16   | 13A |
|  | AW8P           | 8 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                                           | -    | -   |

 12 Position - **PanelMate™ AT** Receptacles and Wedgelocks

|                                                                                     |                |                                                                                                                                                                    |    |     |
|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|   | AT04-12PA-PM01 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Gasket, Standard Diameter Rear Seal (Red), Keyed A, Grey Body (Requires Wedgelock AW12P)    | 16 | 13A |
|  | AT04-12PB-PM01 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Gasket, Standard Diameter Rear Seal (Red), Keyed B, Black Body (Requires Wedgelock AW12P)   | 16 | 13A |
|  | AT04-12PA-PM02 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Gasket, Reduced Diameter Rear Seal (Green), Keyed A, Grey Body (Requires Wedgelock AW12P)   | 16 | 13A |
|  | AT04-12PB-PM02 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Gasket, Reduced Diameter Rear Seal (Green), Keyed B, Black Body (Requires Wedgelock AW12P)  | 16 | 13A |
|  | AT04-12PA-PM05 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Keyed A, Grey Body (Requires Wedgelock AW12P) | 16 | 13A |
|  | AT04-12PA-PM11 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Keyed A, Grey Body (Requires Wedgelock AW12P)  | 16 | 13A |
|  | AT04-12PB-PM11 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Keyed B, Black Body (Requires Wedgelock AW12P) | 16 | 13A |
|  | AT04-12PC-PM11 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Keyed C, Green Body (Requires Wedgelock AW12P) | 16 | 13A |
|  | AT04-12PD-PM11 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Keyed D, Brown Body (Requires Wedgelock AW12P) | 16 | 13A |

## 12 Position - PanelMate™ AT Receptacles and Wedgelocks, cont.

| Image                                                                               | Part Number    | Description                                                                                                                                                                       | Size | Amp |
|-------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT04-12PA-PM12 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Keyed A, Grey Body (Requires Wedgelock AW12P)                | 16   | 13A |
|    | AT04-12PB-PM12 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Keyed B, Black Body (Requires Wedgelock AW12P)               | 16   | 13A |
|    | AT04-12PC-PM12 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Keyed C, Green Body (Requires Wedgelock AW12P)               | 16   | 13A |
|    | AT04-12PD-PM12 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Keyed D, Brown Body (Requires Wedgelock AW12P)               | 16   | 13A |
|    | AT04-12PA-PM13 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed A, Grey Body (Requires Wedgelock AW12P)        | 16   | 13A |
|    | AT04-12PB-PM13 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed B, Black Body (Requires Wedgelock AW12P)       | 16   | 13A |
|  | AT04-12PC-PM13 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed C, Green Body (Requires Wedgelock AW12P)       | 16   | 13A |
|  | AT04-12PD-PM13 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed D, Brown Body (Requires Wedgelock AW12P)       | 16   | 13A |
|  | AT04-12PA-PM14 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed A, Grey Body (Requires Wedgelock AW12P)       | 16   | 13A |
|  | AT04-12PB-PM14 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed B, Black Body (Requires Wedgelock AW12P)      | 16   | 13A |
|  | AT04-12PC-PM14 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed C, Green Body (Requires Wedgelock AW12P)      | 16   | 13A |
|  | AT04-12PD-PM14 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed D, Brown Body (Requires Wedgelock AW12P)      | 16   | 13A |
|  | AT04-12PA-PM15 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Keyed A, Grey Body (Requires Wedgelock AW12P)  | 16   | 13A |
|  | AT04-12PB-PM15 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Keyed B, Black Body (Requires Wedgelock AW12P) | 16   | 13A |
|  | AT04-12PC-PM15 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Keyed C, Green Body (Requires Wedgelock AW12P) | 16   | 13A |



12 Position - **PanelMate™ AT** Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number    | Description                                                                                                                                                                        | Size | Amp |
|-----------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT04-12PD-PM15 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Keyed D, Brown Body (Requires Wedgelock AW12P)  | 16   | 13A |
|  | AT04-12PA-PM16 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed A, Grey Body (Requires Wedgelock AW12P)  | 16   | 13A |
|  | AT04-12PB-PM16 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed B, Black Body (Requires Wedgelock AW12P) | 16   | 13A |
|  | AT04-12PC-PM16 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed C, Green Body (Requires Wedgelock AW12P) | 16   | 13A |
|  | AT04-12PD-PM16 | 12 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed D, Brown Body (Requires Wedgelock AW12P) | 16   | 13A |
|  | AW12P          | 12 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                                            | -    | -   |

 13 Position - **PanelMate™ AT** Receptacles

|                                                                                     |                 |                                                                                                                                                                                    |       |        |
|-------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|
|  | AT1612-13PB     | 13 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, No Gasket, End Cap, Standard Diameter Rear Seal (Red), Keyed B, Black Body (No Add'l Wedgelock Required)  | 12-16 | 13-25A |
|  | AT1612-13PB-G   | 13 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Keyed B, Black Body (No Add'l Wedgelock Required)     | 12-16 | 13-25A |
|  | AT1612-13PB-RD  | 13 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, No Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed B, Black Body (No Add'l Wedgelock Required) | 12-16 | 13-25A |
|  | AT1612-13PB-RDG | 13 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed B, Black Body (No Add'l Wedgelock Required)    | 12-16 | 13-25A |

 2, 3, 4, 6, 8, 12 and 13 Position - **PanelMate™ AT** Gaskets

|                                                                                     |                 |                                                           |   |   |
|-------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------|---|---|
|  | AT04-XP-PM1X-G7 | Gasket for 2, 3, 4, 6 Position, PanelMate™ AT Receptacles | - | - |
|  | AT04-08PB-G7    | Gasket for 8 Position, PanelMate™ AT Receptacle           | - | - |
|  | AT1612-PB-G7    | Gasket for 12 & 13 Position, PanelMate™ AT Receptacle     | - | - |

 18 Position - **PanelMate™ AT** Receptacles

|                                                                                     |                |                                                                                                                                                                                |    |     |
|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT16-18PA-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed A, Grey Body (No Add'l Wedgelock Required) | 16 | 13A |
|-------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|

18 Position - **PanelMate™ AT** Receptacles, cont.

| Image                                                                               | Part Number    | Description                                                                                                                                                                           | Size | Amp |
|-------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT16-18PB-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed B, Black Body (No Add'l Wedgelock Required)       | 16   | 13A |
|    | AT16-18PC-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed C, Green Body (No Add'l Wedgelock Required)       | 16   | 13A |
|    | AT16-18PD-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed D, Brown Body (No Add'l Wedgelock Required)       | 16   | 13A |
|    | AT16-18PE-PM11 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Keyed E, Grey Body (No Add'l Wedgelock Required)        | 16   | 13A |
|    | AT16-18PA-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed A, Grey Body (No Add'l Wedgelock Required)  | 16   | 13A |
|    | AT16-18PB-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed B, Black Body (No Add'l Wedgelock Required) | 16   | 13A |
|   | AT16-18PC-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed C, Green Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18PD-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed D, Brown Body (No Add'l Wedgelock Required) | 16   | 13A |
|  | AT16-18PE-PM15 | 18 Position, Receptacle with Flange, Pin, PanelMate™ AT, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Keyed E, Grey Body (No Add'l Wedgelock Required)  | 16   | 13A |

 2 Position - **PanelMate™ AT 4 Hole Welded Flange** Receptacles and Wedgelocks

|                                                                                     |              |                                                                                                                                                                   |    |     |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-2P-L012 | 2 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Grey (Requires Wedgelock AW2P. Keyed Options Available.) | 16 | 13A |
|  | AW2P         | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                            | -  | -   |
|  | AW2P-A       | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Grey                                                                                                             | -  | -   |
|  | AW2P-B       | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Black                                                                                                            | -  | -   |
|  | AW2P-C       | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                            | -  | -   |
|  | AW2P-D       | 2 Position, Receptacle Wedgelock, PanelMate™ AT, Brown                                                                                                            | -  | -   |

**3 Position - PanelMate™ AT 4 Hole Welded Flange** Receptacles and Wedgelocks

| Image                                                                             | Part Number  | Description                                                                                                                                                                                  | Size | Amp |
|-----------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT04-3P-L012 | 3 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW3P. Keyed Options Available.)                       | 16   | 13A |
|  | AT04-3P-LE08 | 3 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Shrink Boot End Cap, Grey Body (Requires Wedgelock AW3P. Keyed Options Available.)  | 16   | 13A |
|  | AT04-3P-LE12 | 3 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Shrink Boot End Cap, Black Body (Requires Wedgelock AW3P. Keyed Options Available.) | 16   | 13A |
|  | AT04-3P-CL03 | 3 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AW3P. Keyed Options Available.)                      | 16   | 13A |
|  | AT04-3P-CL06 | 3 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW3P. Keyed Options Available.)                     | 16   | 13A |
|  | AW3P         | 3 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                                                       | -    | -   |
|  | AW3P-J1939   | 3 Position, Receptacle Wedgelock, PanelMate™ AT, Keyed J-1939, Blue                                                                                                                          | -    | -   |

**4 Position - PanelMate™ AT 4 Hole Welded Flange** Receptacles and Wedgelocks

|                                                                                     |              |                                                                                                                                                         |    |     |
|-------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-4P-L012 | 4 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW4P.)           | 16 | 13A |
|  | AT04-4P-LE11 | 4 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AW4P.) | 16 | 13A |
|  | AT04-4P-CL03 | 4 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AW4P.)          | 16 | 13A |
|  | AT04-4P-CL06 | 4 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW4P.)         | 16 | 13A |
|  | AW4P         | 4 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                  | -  | -   |

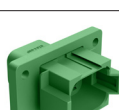
**6 Position - PanelMate™ AT 4 Hole Welded Flange** Receptacles and Wedgelocks

|                                                                                     |              |                                                                                                                                               |    |     |
|-------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-6P-L012 | 6 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW6P.) | 16 | 13A |
|-------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----|-----|

6 Position - **PanelMate™ AT 4 Hole Welded Flange** Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number  | Description                                                                                                                        | Size | Amp |
|-----------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT04-6P-CL06 | 6 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Seal, Black Body (Requires Wedgelock AW6P.) | 16   | 13A |
|  | AW6P         | 6 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                             | -    | -   |

 8 Position - **PanelMate™ AT 4 Hole Welded Flange** Receptacles and Wedgelocks

|                                                                                     |                |                                                                                                                                                                  |    |     |
|-------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | AT04-08PA-CL03 | 8 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Seal, Keyed A, Grey Body (Requires Wedgelock AW8P.)                       | 16 | 13A |
|    | AT04-08PA-CL06 | 8 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Seal, Keyed A, Black Body (Requires Wedgelock AW8P.)                      | 16 | 13A |
|   | AT04-08PA-L012 | 8 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed A, Grey Body (Requires Wedgelock AW8P.)           | 16 | 13A |
|  | AT04-08PB-L012 | 8 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed B, Black Body (Requires Wedgelock AW8P.)          | 16 | 13A |
|  | AT04-08PC-L012 | 8 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed C, Green Body (Requires Wedgelock AW8P.)          | 16 | 13A |
|  | AT04-08PD-L012 | 8 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed D, Brown Body (Requires Wedgelock AW8P.)          | 16 | 13A |
|  | AT04-08PA-LE11 | 8 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed A, End Cap, Black Body (Requires Wedgelock AW8P.) | 16 | 13A |
|  | AW8P           | 8 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                           | -  | -   |

 12 Position - **PanelMate™ AT 4 Hole Welded Flange** Receptacles and Wedgelocks

|                                                                                     |                |                                                                                                                                                          |    |     |
|-------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | AT04-12PA-L012 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed A, Grey Body (Requires Wedgelock AW12P.) | 16 | 13A |
|-------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|

## 12 Position - PanelMate™ AT 4 Hole Welded Flange Receptacles and Wedgelocks, cont.

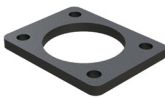
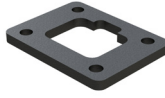
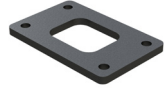
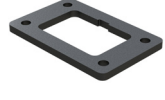
| Image                                                                               | Part Number    | Description                                                                                                                                                             | Size | Amp |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT04-12PB-L012 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed B, Black Body (Requires Wedgelock AW12P.)               | 16   | 13A |
|    | AT04-12PC-L012 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed C, Green Body (Requires Wedgelock AW12P.)               | 16   | 13A |
|    | AT04-12PD-L012 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed D, Brown Body (Requires Wedgelock AW12P.)               | 16   | 13A |
|    | AT04-12PA-LE07 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), End Cap, Keyed A, Grey Body (Requires Wedgelock AW12P.)       | 16   | 13A |
|   | AT04-12PB-LE07 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), End Cap, Keyed B, Black Body (Requires Wedgelock AW12P.)      | 16   | 13A |
|  | AT04-12PC-LE07 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), End Cap, Keyed C, Green Body (Requires Wedgelock AW12P.)      | 16   | 13A |
|  | AT04-12PD-LE07 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), End Cap, Keyed D, Brown Body (Requires Wedgelock AW12P.)      | 16   | 13A |
|  | AT04-12PA-LE14 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed A, Black Body (Requires Wedgelock AW12P.)               | 16   | 13A |
|  | AT04-12PA-BL04 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed A, Enhanced Key, Grey Body (Requires Wedgelock AW12P.)  | 16   | 13A |
|  | AT04-12PB-BL04 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed B, Enhanced Key, Black Body (Requires Wedgelock AW12P.) | 16   | 13A |
|  | AT04-12PC-BL04 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed C, Enhanced Key, Green Body (Requires Wedgelock AW12P.) | 16   | 13A |



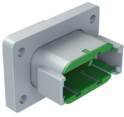
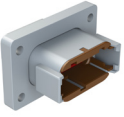
## 12 Position - PanelMate™ AT 4 Hole Welded Flange Receptacles and Wedgelocks, cont.

| Image                                                                               | Part Number    | Description                                                                                                                                                                      | Size | Amp |
|-------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT04-12PD-BL04 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed D, Enhanced Key, Brown Body (Requires Wedgelock AW12P.)          | 16   | 13A |
|    | AT04-12PA-BL05 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed A, Enhanced Key, End Cap, Grey Body (Requires Wedgelock AW12P.)  | 16   | 13A |
|    | AT04-12PB-BL05 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed B, Enhanced Key, End Cap, Black Body (Requires Wedgelock AW12P.) | 16   | 13A |
|    | AT04-12PC-BL05 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed C, Enhanced Key, End Cap, Green Body (Requires Wedgelock AW12P.) | 16   | 13A |
|   | AT04-12PD-BL05 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed D, Enhanced Key, End Cap, Brown Body (Requires Wedgelock AW12P.) | 16   | 13A |
|  | AT04-12PA-BL08 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Standard Diameter Rear Seal (Red), Keyed A, Enhanced Key, Black Body (Requires Wedgelock AW12P.)          | 16   | 13A |
|  | AT04-12PA-CL03 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Keyed A, Grey Body (Requires Wedgelock AW12P.)                        | 16   | 13A |
|  | AT04-12PB-CL03 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Keyed B, Black Body (Requires Wedgelock AW12P.)                       | 16   | 13A |
|  | AT04-12PC-CL03 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Keyed C, Green Body (Requires Wedgelock AW12P.)                       | 16   | 13A |
|  | AT04-12PD-CL03 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Keyed D, Brown Body (Requires Wedgelock AW12P.)                       | 16   | 13A |
|  | AT04-12PA-CL06 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ AT, Reduced Diameter Rear Seal (Green), Keyed A, Black Body (Requires Wedgelock AW12P.)                       | 16   | 13A |
|  | AW12P          | 12 Position, Receptacle Wedgelock, PanelMate™ AT, Green                                                                                                                          | -    | -   |

3, 4, 8 and 12 Position - **PanelMate™ AT 4 Hole Welded Flange** Receptacle Gaskets

| Image                                                                            | Part Number   | Description                                                                                           | Size | Amp |
|----------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------|------|-----|
|  | AT3P-L012-GKT | Gasket for 3 Position Receptacle with 4 Hole Welded Flange, PanelMate™ AT, Closed Cell Sponge Rubber  | -    | -   |
|  | AT4P-L012-GKT | Gasket for 4 Position Receptacle with 4 Hole Welded Flange, PanelMate™ AT, Closed Cell Sponge Rubber  | -    | -   |
|  | AT8P-L012-GKT | Gasket for 8 Position Receptacle with 4 Hole Welded Flange, PanelMate™ AT, Closed Cell Sponge Rubber  | -    | -   |
|  | AT12-L012-GKT | Gasket for 12 Position Receptacle with 4 Hole Welded Flange, PanelMate™ AT, Closed Cell Sponge Rubber | -    | -   |

 12 Position - **PanelMate™ ATM 4 Hole Welded Flange** Receptacle and Wedgelocks

|                                                                                     |                 |                                                                                                                                                                           |    |      |
|-------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
|   | ATM04-12PA-PM01 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ ATM, Standard Diameter Rear Seal (Red), Keyed A (Grey Insert), Grey Body (Requires Wedgelock AWM-12P)  | 20 | 7.5A |
|  | ATM04-12PB-PM01 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ ATM, Standard Diameter Rear Seal (Red), Keyed B (Black Insert), Grey Body (Requires Wedgelock AWM-12P) | 20 | 7.5A |
|  | ATM04-12PC-PM01 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ ATM, Standard Diameter Rear Seal (Red), Keyed C (Green Insert), Grey Body (Requires Wedgelock AWM-12P) | 20 | 7.5A |
|  | ATM04-12PD-PM01 | 12 Position, Receptacle with 4 Hole Welded Flange, Pin, PanelMate™ ATM, Standard Diameter Rear Seal (Red), Keyed D (Brown Insert), Grey Body (Requires Wedgelock AWM-12P) | 20 | 7.5A |
|  | AWM-12P         | 12 Position, Receptacle Wedgelock, PanelMate™ ATM, Green                                                                                                                  | -  | -    |

 2 Position - **PanelMate™ ATP** Receptacles and Wedgelocks

|                                                                                     |                  |                                                                                                                                                                                               |    |     |
|-------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|  | ATP04-2P-PM07G   | 2 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.)          | 12 | 25A |
|  | ATP04-2P-PM07GEC | 2 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-2P. Keyed Options Available.) | 12 | 25A |

4 Position - **PanelMate™ ATP** Receptacles and Wedgelocks, cont.

| Image                                                                             | Part Number      | Description                                                                                                                                                                                  | Size | Amp |
|-----------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATP04-2P-PM08G   | 2 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.)          | 12   | 25A |
|  | ATP04-2P-PM08GEC | 2 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-2P. Keyed Options Available.) | 12   | 25A |
|  | AWP-2P           | 2 Position, Receptacle Wedgelock, PanelMate™ ATP, Standard Orange                                                                                                                            | -    | -   |
|  | AWP-2PA          | 2 Position, Receptacle Wedgelock, PanelMate™ ATP, Keyed A, Grey                                                                                                                              | -    | -   |
|  | AWP-2PB          | 2 Position, Receptacle Wedgelock, PanelMate™ ATP, Keyed B, Black                                                                                                                             | -    | -   |
|  | AWP-2PC          | 2 Position, Receptacle Wedgelock, PanelMate™ ATP, Keyed C, Green                                                                                                                             | -    | -   |
|  | AWP-2PD          | 2 Position, Receptacle Wedgelock, PanelMate™ ATP, Keyed D, Brown                                                                                                                             | -    | -   |

 4 Position - **PanelMate™ ATP** Receptacles and Wedgelocks

|                                                                                     |                  |                                                                                                                                                                                               |    |     |
|-------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|    | ATP04-4P-PM01    | 4 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-4P)                                                             | 12 | 25A |
|   | ATP04-4P-PM02    | 4 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-4P)                                                    | 12 | 25A |
|  | ATP04-4P-PM07G   | 4 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-4P. Keyed Options Available.)          | 12 | 25A |
|  | ATP04-4P-PM07GEC | 4 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-4P. Keyed Options Available.) | 12 | 25A |
|  | ATP04-4P-PM08G   | 4 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-4P. Keyed Options Available.)           | 12 | 25A |
|  | ATP04-4P-PM08GEC | 4 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-4P. Keyed Options Available.)  | 12 | 25A |
|  | AWP-4P           | 4 Position, Receptacle Wedgelock, PanelMate™ ATP, Standard Orange                                                                                                                             | -  | -   |
|  | AWP-4PA          | 4 Position, Receptacle Wedgelock, PanelMate™ ATP, Keyed A, Grey                                                                                                                               | -  | -   |
|  | AWP-4PB          | 4 Position, Receptacle Wedgelock, PanelMate™ ATP, Keyed B, Black                                                                                                                              | -  | -   |
|  | AWP-4PC          | 4 Position, Receptacle Wedgelock, PanelMate™ ATP, Keyed C, Green                                                                                                                              | -  | -   |
|  | AWP-4PD          | 4 Position, Receptacle Wedgelock, PanelMate™ ATP, Keyed D, Brown                                                                                                                              | -  | -   |
|  | ATP4P-L012-GKT   | Gasket For 4 Position Receptacle with Flange, Panelmate™ ATP (Use with ATP04-4P-PM01/PM02)                                                                                                    | -  | -   |

## 6 Position - PanelMate™ ATP Receptacles and Wedgelocks

| Image                                                                               | Part Number       | Description                                                                                                                                                                                           | Size | Amp |
|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | ATP04-6P-PM05     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                  | 12   | 25A |
|    | ATP04-6P-PM05BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                 | 12   | 25A |
|    | ATP04-6P-PM05EC   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), End Cap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)         | 12   | 25A |
|    | ATP04-6P-PM05ECBK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), End Cap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)        | 12   | 25A |
|    | ATP04-6P-PM05SR   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)   | 12   | 25A |
|    | ATP04-6P-PM05SRBK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12   | 25A |
|   | ATP04-6P-PM06     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                 | 12   | 25A |
|  | ATP04-6P-PM06BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                | 12   | 25A |
|  | ATP04-6P-PM06EC   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)        | 12   | 25A |
|  | ATP04-6P-PM06ECBK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)       | 12   | 25A |
|  | ATP04-6P-PM06SR   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12   | 25A |
|  | ATP04-6P-PM06SRBK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Threaded Insert, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.) | 12   | 25A |
|  | ATP04-6P-PM11     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                   | 12   | 25A |
|  | ATP04-6P-PM11BK   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                  | 12   | 25A |
|  | ATP04-6P-PM12     | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                  | 12   | 25A |

6 Position - **PanelMate™ ATP** Receptacles and Wedgelocks, cont.

| Image                                                                               | Part Number     | Description                                                                                                                                                                                          | Size | Amp |
|-------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | ATP04-6P-PM12BK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                | 12   | 25A |
|    | ATP04-6P-PM13   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, End Cap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                                            | 12   | 25A |
|    | ATP04-6P-PM13BK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, End Cap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                                           | 12   | 25A |
|    | ATP04-6P-PM14   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)        | 12   | 25A |
|    | ATP04-6P-PM14BK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), End Cap, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)       | 12   | 25A |
|    | ATP04-6P-PM15   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                                      | 12   | 25A |
|   | ATP04-6P-PM15BK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.)                                     | 12   | 25A |
|  | ATP04-6P-PM16   | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Grey Body (Requires Wedgelock AWP-6P. Keyed Options Available.)  | 12   | 25A |
|  | ATP04-6P-PM16BK | 6 Position, Receptacle with Flange, Pin, PanelMate™ ATP, Self-Threading, Gasket, Reduced Diameter Rear Seal (Green), Strain Relief, Black Body (Requires Wedgelock AWP-6P. Keyed Options Available.) | 12   | 25A |
|  | AWP-6P          | 6 Position, ATP Series™, Receptacle Wedgelock, Standard Orange                                                                                                                                       | -    | -   |
|  | AWP-6PA         | 6 Position, ATP Series™, Receptacle Wedgelock, Keyed A, Grey                                                                                                                                         | -    | -   |
|  | AWP-6PB         | 6 Position, ATP Series™, Receptacle Wedgelock, Keyed B, Black                                                                                                                                        | -    | -   |

 Single Position - **PanelMate™ ATHD** Receptacles

|                                                                                     |                  |                                                                                                                                                                   |   |      |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
|  | ATHD04-1-4P-L009 | Single Position, Receptacle with Inside Mount Sealed Flange, Pin, Size 4, PanelMate™ ATHD, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body  | 4 | 100A |
|  | ATHD04-1-4P-L013 | Single Position, Receptacle with Outside Mount Sealed Flange, Pin, Size 4, PanelMate™ ATHD, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body | 4 | 100A |
|  | ATHD04-1-8P-PM05 | Single Position, Receptacle with Flange, Pin, Size 8, PanelMate™ ATHD, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Black Body                     | 8 | 60A  |



Single Position - **PanelMate™ ATHD** Receptacles, cont.

| Image                                                                             | Part Number       | Description                                                                                                                                    | Size | Amp |
|-----------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | ATHD04-1-8P-PM11  | Single Position, Receptacle with Flange, Pin, Size 8, PanelMate™ ATHD, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body   | 8    | 60A |
|  | ATHD04-1-12P-PM05 | Single Position, Receptacle with Flange, Pin, Size 12, PanelMate™ ATHD, Threaded Insert, Gasket, Standard Diameter Rear Seal (Red), Black Body | 12   | 25A |
|  | ATHD04-1-12P-PM11 | Single Position, Receptacle with Flange, Pin, Size 12, PanelMate™ ATHD, Self-Threading, Gasket, Standard Diameter Rear Seal (Red), Black Body  | 12   | 25A |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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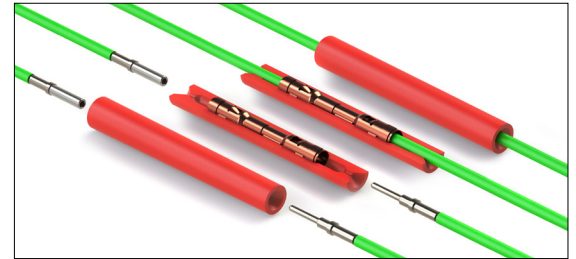
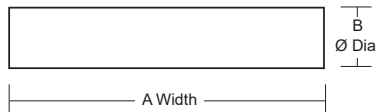
## Field-Serviceable, Splicing Solution

Amphenol Sine Systems' **SpeedSplice™** product is our field-serviceable splicing solution which can be used to repair damaged electrical connections. Made of silicone rubber with an IP67 rating, our **SpeedSplice™** houses an environmentally-sealed, mated pair of contacts, with an **Integrated Contact Retention System**, ensuring your repairs will withstand harsh environmental conditions. For use with A Series™ Common Contacts in Size 12 & 16 Machined/Stamped & Formed. Available in individual piece or as a Kit.

**Applications:** Heavy Equipment, Agricultural, Automotive, Military, Alternate Energy, and other demanding interconnect applications.

### Key Features

- Available in **Size 12**, 10-14AWG, 25A, 250V
- Available in **Size 16**, 14-20AWG, 13A, 250V
- Operating Temperature -55°C to +125°C



| Image | Part Number                   | Description                                                                                                                                                                                                           | AWG   | Amps | A Width | B Ø Dia. | Insulation O.D. Range                    |
|-------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|---------|----------|------------------------------------------|
|       | <a href="#">ATSS-12-00</a>    | SpeedSplice™, Size 12, Single Terminal Connection<br>For use with Machined Contacts, such as: AT60-204-12141, AT62-203-12141, etc.<br>For use with Stamped&Formed Contacts, such as: AT60-12-0166, AT62-12-0166, etc. | 10-14 | 25A  | 62.4 mm | 11.3 mm  | 3.40 mm - 4.30 mm<br>(.134 in - .170 in) |
|       | <a href="#">ATSS-12-KIT01</a> | SpeedSplice™, Size 12, Single Terminal Connection, Kit<br>(1) ATSS-12-00 SpeedSplice™ Seal<br>(1) AT60-204-12141 Machined Male Contact<br>(1) AT62-203-12141 Machined Female Contact                                  | 12-14 | 25A  | 62.4 mm | 11.3 mm  | 3.40 mm - 4.32 mm<br>(.134 in - .170 in) |
|       | <a href="#">ATSS-16-00</a>    | SpeedSplice™, Size 16, Single Terminal Connection<br>For use with Machined Contacts, such as: AT60-202-16141, AT62-201-16141, etc.<br>For use with Stamped&Formed Contacts, such as: AT60-16-0122, AT62-16-0122, etc. | 14-20 | 13A  | 62.1 mm | 8.8 mm   | 2.54 mm - 3.40 mm<br>(.100 in - .134 in) |
|       | <a href="#">ATSS-16-KIT01</a> | SpeedSplice™, Size 16, Single Terminal Connection, Kit<br>(1) ATSS-16-00 SpeedSplice™ Seal<br>(1) AT60-202-16141 Machined Male Contact<br>(1) AT62-201-16141 Machined Female Contact                                  | 14-20 | 13A  | 62.1 mm | 8.8 mm   | 2.54 mm - 3.40 mm<br>(.100 in - .134 in) |
|       | <a href="#">ATSS-16-KIT02</a> | SpeedSplice™, Size 16, Single Terminal Connection, Kit<br>(1) ATSS-16-00 SpeedSplice™ Seal<br>(1) AT60-215-16141 Machined Male Contact<br>(1) AT62-209-16141 Machined Female Contact                                  | 14    | 13A  | 62.1 mm | 8.8 mm   | 2.54 mm - 3.40 mm<br>(.100 in - .134 in) |



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**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

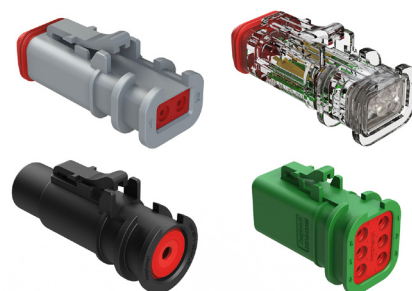
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# SP Structure+™ Family

## Overmold Compatible Connectors

StructurePlus™ AT: 2, 3, 4, 6, 8, and 12 position  
StructurePlus™ AT LED: 2 position  
StructurePlus™ ATP: 6 position  
StructurePlus™ ATHD: Single position



Amphenol Sine Systems' **StructurePlus™ Family** of overmold compatible connectors are an **engineered, one-piece, solid body construction and are specifically designed for cable assembly operations requiring custom molding or shrink tube requirements**. The added connector structure results in enhanced connection integrity that is an essential component for connecting cable in harsh environments. IP ratings vary depending on series. The **StructurePlus™** feature retains their respective performance characteristics for each product series.

### Key Features

- Engineered one-piece solid body construction, eliminates previously required snap-on-back shell
- Front and Rear Seals (Standard or Reduced Diameter Rear Seals Available)
- Intermatable with industry standard connectors



**Potential Applications:** Heavy Duty, Transportation, Marine, Diagnostic, Military, Alternative Energy, Agricultural as well as other demanding interconnect applications.

### Technical Specifications

|                       |                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature | -55°C to +125°C                                                                                                                                          |
| Max Current           | 13A ( <b>StructurePlus™ AT/LED</b> )<br>25A ( <b>StructurePlus™ ATP</b> )<br>25-60A ( <b>StructurePlus™ ATHD</b> )                                       |
| Housing/Wedge Body    | Thermoplastic                                                                                                                                            |
| Seals                 | Silicone Elastomer                                                                                                                                       |
| Wire Range (AWG)      | 14-20AWG ( <b>StructurePlus™ AT/LED</b> )<br>10-14AWG ( <b>StructurePlus™ ATP</b> )<br>6AWG ( <b>StructurePlus™ ATHD</b> )                               |
| Contacts              | Copper Alloy, Nickel-Plated                                                                                                                              |
| IP Rating             | IP67 mated ( <b>StructurePlus™ AT/LED</b> )<br>IP68 1M of water for 24 hours ( <b>StructurePlus™ ATP</b> )<br>IP69K mated ( <b>StructurePlus™ ATHD</b> ) |
| Vibration             | Continued continuity without degradation to mechanical or physical attributes following vibration. (max acceleration 20 g's at Sine sweep of 10-2000Hz)  |

|                       |                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric Value      | Less than 2 milliamps current leakage at 1500V AC                                                                                                                                                                             |
| Corrosion Resistance  | No evidence of corrosion after 48 hours of salt spray per MIL-STD1344, method 1001.                                                                                                                                           |
| Fluid Resistance      | Connectors show no damage when exposed to most fluids used in industrial application.                                                                                                                                         |
| Insulation Resistance | 1000 megohms minimum 25°C                                                                                                                                                                                                     |
| Thermal Cycle         | No cracking, chipping or leaking after 20 test cycles from -55°C to +125°C.                                                                                                                                                   |
| Physical Shock        | No unlocking, unmating or other unsatisfactory results during or after 50 G's in each of three usually perpendicular planes. No electrical discontinuities longer than 1 microsecond. MIL-STD 202. Method 213, Condition "C". |
| Vibration             | Maintains continuity and exhibits no mechanical or physical damage after vibration levels of 20 G's at 10-2000 Hz.                                                                                                            |
| Mating Cycles         | >100                                                                                                                                                                                                                          |



A **A Series™ Family**



Standard products. Custom solutions  
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2 Position - **StructurePlus™ AT** Plugs and Wedgelocks

| Image                                                                              | Part Number     | Description                                                                                                                                     | Size | Amp |
|------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT06-2S-OMBLK   | 2 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13  |
|    | AT06-2S-OMRDBLK | 2 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW2S. Keyed Options Available.) | 16   | 13  |
|    | AT06-2S-OMBLU   | 2 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Blue Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13  |
|    | AT06-2S-OMRDBLU | 2 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Blue Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13  |
|    | AT06-2S-OMBRN   | 2 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Brown Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13  |
|    | AT06-2S-OMRDBRN | 2 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Brown Body (Requires Wedgelock AW2S. Keyed Options Available.) | 16   | 13  |
|   | AT06-2S-OMGRN   | 2 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Green Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13  |
|  | AT06-2S-OMRDGRN | 2 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Green Body (Requires Wedgelock AW2S. Keyed Options Available.) | 16   | 13  |
|  | AT06-2S-OMGRY   | 2 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13  |
|  | AT06-2S-OMRDGRY | 2 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13  |
|  | AT06-2S-OMRED   | 2 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Red Body (Requires Wedgelock AW2S. Keyed Options Available.)    | 16   | 13  |
|  | AT06-2S-OMRDRED | 2 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Red Body (Requires Wedgelock AW2S. Keyed Options Available.)   | 16   | 13  |
|  | AT06-2S-OMWHT   | 2 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), White Body (Requires Wedgelock AW2S. Keyed Options Available.)  | 16   | 13  |
|  | AT06-2S-OMRDWHT | 2 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), White Body (Requires Wedgelock AW2S. Keyed Options Available.) | 16   | 13  |
|  | AT06-2S-OMYEL   | 2 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Yellow Body (Requires Wedgelock AW2S. Keyed Options Available.) | 16   | 13  |

2 Position - **StructurePlus™ AT** Plugs and Wedgelocks, cont.

| Image                                                                            | Part Number     | Description                                                                                                                                      | Size | Amp |
|----------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT06-2S-OMRDYEL | 2 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Yellow Body (Requires Wedgelock AW2S. Keyed Options Available.) | 16   | 13  |
|  | AW2S            | 2 Position, Plug Wedgelock, StructurePlus™ AT, Green                                                                                             | -    | -   |
|  | AW2S-A          | 2 Position, Plug Wedgelock, StructurePlus™ AT, Keyed A, Grey                                                                                     | -    | -   |
|  | AW2S-B          | 2 Position, Plug Wedgelock, StructurePlus™ AT, Keyed B, Black                                                                                    | -    | -   |
|  | AW2S-C          | 2 Position, Plug Wedgelock, StructurePlus™ AT, Keyed C, Green                                                                                    | -    | -   |
|  | AW2S-D          | 2 Position, Plug Wedgelock, StructurePlus™ AT, Keyed D, Brown                                                                                    | -    | -   |

 3 Position - **StructurePlus™ AT** Plugs and Wedgelocks

|                                                                                    |                 |                                                                                                                        |    |    |
|------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------|----|----|
|    | AT06-3S-OMBLK   | 3 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW3S.)  | 16 | 13 |
|   | AT06-3S-OMRDBLK | 3 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW3S.) | 16 | 13 |
|  | AT06-3S-OMBLU   | 3 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Blue Body (Requires Wedgelock AW3S.)   | 16 | 13 |
|  | AT06-3S-OMRDBLU | 3 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Blue Body (Requires Wedgelock AW3S.)  | 16 | 13 |
|  | AT06-3S-OMBRN   | 3 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Brown Body (Requires Wedgelock AW3S.)  | 16 | 13 |
|  | AT06-3S-OMRDBRN | 3 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Brown Body (Requires Wedgelock AW3S.) | 16 | 13 |
|  | AT06-3S-OMGRN   | 3 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Green Body (Requires Wedgelock AW3S.)  | 16 | 13 |
|  | AT06-3S-OMRDGRN | 3 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Green Body (Requires Wedgelock AW3S.) | 16 | 13 |
|  | AT06-3S-OMGRY   | 3 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW3S.)   | 16 | 13 |
|  | AT06-3S-OMRDGRY | 3 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AW3S.)  | 16 | 13 |



2 Position - **StructurePlus™ AT** Plugs and Wedgelocks, cont.

| Image                                                                             | Part Number     | Description                                                                                                             | Size | Amp |
|-----------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|------|-----|
|   | AT06-3S-OMRED   | 3 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Red Body (Requires Wedgelock AW3S.)     | 16   | 13  |
|   | AT06-3S-OMRDRED | 3 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Red Body (Requires Wedgelock AW3S.)    | 16   | 13  |
|   | AT06-3S-OMWHT   | 3 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), White Body (Requires Wedgelock AW3S.)   | 16   | 13  |
|   | AT06-3S-OMRDWHT | 3 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), White Body (Requires Wedgelock AW3S.)  | 16   | 13  |
|   | AT06-3S-OMYEL   | 3 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Yellow Body (Requires Wedgelock AW3S.)  | 16   | 13  |
|   | AT06-3S-OMRDYEL | 3 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Yellow Body (Requires Wedgelock AW3S.) | 16   | 13  |
|  | AW3S            | 3 Position, Plug Wedgelock, StructurePlus™ AT, Green                                                                    | -    | -   |

 4 Position - **StructurePlus™ AT** Plugs and Wedgelocks

|                                                                                    |                 |                                                                                                                        |    |    |
|------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------|----|----|
|  | AT06-4S-OMBLK   | 4 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW4S.)  | 16 | 13 |
|  | AT06-4S-OMRDBLK | 4 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW4S.) | 16 | 13 |
|  | AT06-4S-OMBLU   | 4 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Blue Body (Requires Wedgelock AW4S.)   | 16 | 13 |
|  | AT06-4S-OMRDBLU | 4 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Blue Body (Requires Wedgelock AW4S.)  | 16 | 13 |
|  | AT06-4S-OMBRN   | 4 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Brown Body (Requires Wedgelock AW4S.)  | 16 | 13 |
|  | AT06-4S-OMRDBRN | 4 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Brown Body (Requires Wedgelock AW4S.) | 16 | 13 |
|  | AT06-4S-OMGRN   | 4 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Green Body (Requires Wedgelock AW4S.)  | 16 | 13 |
|  | AT06-4S-OMRDGRN | 4 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Green Body (Requires Wedgelock AW4S.) | 16 | 13 |

4 Position - **StructurePlus™ AT** Plugs and Wedgelocks, cont.

| Image                                                                              | Part Number     | Description                                                                                                             | Size | Amp |
|------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT06-4S-OMGRY   | 4 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW4S.)    | 16   | 13  |
|    | AT06-4S-OMRDWHT | 4 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AW4S.)   | 16   | 13  |
|    | AT06-4S-OMRED   | 4 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Red Body (Requires Wedgelock AW4S.)     | 16   | 13  |
|    | AT06-4S-OMRDRED | 4 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Red Body (Requires Wedgelock AW4S.)    | 16   | 13  |
|    | AT06-4S-OMWHT   | 4 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), White Body (Requires Wedgelock AW4S.)   | 16   | 13  |
|    | AT06-4S-OMRDWHT | 4 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), White Body (Requires Wedgelock AW4S.)  | 16   | 13  |
|   | AT06-4S-OMYEL   | 4 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Yellow Body (Requires Wedgelock AW4S.)  | 16   | 13  |
|  | AT06-4S-OMRDYEL | 4 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Yellow Body (Requires Wedgelock AW4S.) | 16   | 13  |
|  | AW4S            | 4 Position, Plug Wedgelock, StructurePlus™ AT, Green                                                                    | -    | -   |

 6 Position - **StructurePlus™ AT** Plugs and Wedgelocks

|                                                                                    |                 |                                                                                                                                                 |    |    |
|------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|  | AT06-6S-OMBLK   | 6 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW6S. Keyed Options Available.)  | 16 | 13 |
|  | AT06-6S-OMRDBLK | 6 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW6S. Keyed Options Available.) | 16 | 13 |
|  | AT06-6S-OMBLU   | 6 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Blue Body (Requires Wedgelock AW6S. Keyed Options Available.)   | 16 | 13 |
|  | AT06-6S-OMRDBLU | 6 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Blue Body (Requires Wedgelock AW6S. Keyed Options Available.)  | 16 | 13 |
|  | AT06-6S-OMBRN   | 6 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Brown Body (Requires Wedgelock AW6S. Keyed Options Available.)  | 16 | 13 |
|  | AT06-6S-OMRDBRN | 6 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Brown Body (Requires Wedgelock AW6S. Keyed Options Available.) | 16 | 13 |

6 Position - **StructurePlus™ AT** Plugs and Wedgelocks, cont.

| Image                                                                              | Part Number     | Description                                                                                                                                      | Size | Amp |
|------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | AT06-6S-OMGRN   | 6 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Green Body (Requires Wedgelock AW6S. Keyed Options Available.)   | 16   | 13  |
|    | AT06-6S-OMRDGRN | 6 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Green Body (Requires Wedgelock AW6S. Keyed Options Available.)  | 16   | 13  |
|    | AT06-6S-OMGRY   | 6 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW6S. Keyed Options Available.)    | 16   | 13  |
|    | AT06-6S-OMRDGRY | 6 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AW6S. Keyed Options Available.)   | 16   | 13  |
|    | AT06-6S-OMRED   | 6 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Red Body (Requires Wedgelock AW6S. Keyed Options Available.)     | 16   | 13  |
|    | AT06-6S-OMRDRED | 6 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Red Body (Requires Wedgelock AW6S. Keyed Options Available.)    | 16   | 13  |
|   | AT06-6S-OMWHT   | 6 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), White Body (Requires Wedgelock AW6S. Keyed Options Available.)   | 16   | 13  |
|  | AT06-6S-OMRDWHT | 6 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), White Body (Requires Wedgelock AW6S. Keyed Options Available.)  | 16   | 13  |
|  | AT06-6S-OMYEL   | 6 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Yellow Body (Requires Wedgelock AW6S. Keyed Options Available.)  | 16   | 13  |
|  | AT06-6S-OMRDYEL | 6 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Yellow Body (Requires Wedgelock AW6S. Keyed Options Available.) | 16   | 13  |
|  | AW6S            | 6 Position, Plug Wedgelock, StructurePlus™ AT, Green                                                                                             | -    | -   |
|  | AW6S-2BLU       | 6 Position, Plug Wedgelock, StructurePlus™ AT, Keyed 2, Blue                                                                                     | -    | -   |

 8 Position - **StructurePlus™ AT** Plugs and Wedgelocks

|                                                                                    |                   |                                                                                                                       |    |    |
|------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------|----|----|
|  | AT06-08SA-OMGRY   | 8 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW8S.)  | 16 | 13 |
|  | AT06-08SA-OMRDGRY | 8 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AW8S.) | 16 | 13 |
|  | AT06-08SB-OMBLK   | 8 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW8S.) | 16 | 13 |

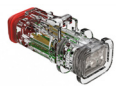
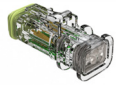
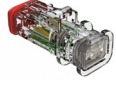
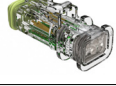
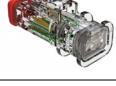
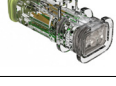
8 Position - **StructurePlus™ AT** Plugs and Wedgelocks, cont.

| Image                                                                            | Part Number       | Description                                                                                                            | Size | Amp |
|----------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT06-08SB-OMRDBLK | 8 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW8S.) | 16   | 13  |
|  | AT06-08SC-OMGRN   | 8 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Green Body (Requires Wedgelock AW8S.)  | 16   | 13  |
|  | AT06-08SC-OMRDGRN | 8 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Green Body (Requires Wedgelock AW8S.) | 16   | 13  |
|  | AT06-08SD-OMBRN   | 8 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Brown Body (Requires Wedgelock AW8S.)  | 16   | 13  |
|  | AT06-08SD-OMRDBRN | 8 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Brown Body (Requires Wedgelock AW8S.) | 16   | 13  |
|  | AW8S              | 8 Position, Plug Wedgelock, StructurePlus™ AT, Green                                                                   | -    | -   |

 12 Position - **StructurePlus™ AT** Plugs and Wedgelocks

|                                                                                    |                   |                                                                                                                          |    |    |
|------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------|----|----|
|   | AT06-12SA-OMGRY   | 12 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AW12S.)   | 16 | 13 |
|  | AT06-12SA-OMRDGRY | 12 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AW12S.)  | 16 | 13 |
|  | AT06-12SB-OMBLK   | 12 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AW12S.)  | 16 | 13 |
|  | AT06-12SB-OMRDBLK | 12 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AW12S.) | 16 | 13 |
|  | AT06-12SC-OMGRN   | 12 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Green Body (Requires Wedgelock AW12S.)  | 16 | 13 |
|  | AT06-12SC-OMRDGRN | 12 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Green Body (Requires Wedgelock AW12S.) | 16 | 13 |
|  | AT06-12SD-OMBRN   | 12 Position, Plug, Socket, StructurePlus™ AT, Standard Diameter Rear Seal (Red), Brown Body (Requires Wedgelock AW12S.)  | 16 | 13 |
|  | AT06-12SD-OMRDBRN | 12 Position, Plug, Socket, StructurePlus™ AT, Reduced Diameter Rear Seal (Green), Brown Body (Requires Wedgelock AW12S.) | 16 | 13 |
|  | AW12S             | 12 Position, Plug Wedgelock, StructurePlus™ AT, Green                                                                    | -  | -  |

**2 Position - StructurePlus™ AT LED Plugs and Wedgelocks**

| Image                                                                            | Part Number           | Description                                                                                                                                                        | Size | Amp |
|----------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|  | AT06-2S-LED1224V-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 12V or 24V, RVP Circuit, Standard Diameter Rear Seal (Red), Green LED, Clear Body (Requires Wedgelock AW2S-LED)  | 16   | 13A |
|  | AT06-2S-LED1224VR-OMC | 2 Position, Plug, Socket, Structure Plus™ AT LED, 12V or 24V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, Clear Body (Requires Wedgelock AW2S-LED) | 16   | 13A |
|  | AT06-2S-LED12V01-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 12V, RVP Circuit, Standard Diameter Rear Seal (Red), Green LED, Clear Body (Requires Wedgelock AW2S-LED)         | 16   | 13A |
|  | AT06-2S-LED12VR1-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 12V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, Clear Body (Requires Wedgelock AW2S-LED)        | 16   | 13A |
|  | AT06-2S-LED24V01-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 24V, RVP Circuit, Standard Diameter Rear Seal (Red), Green LED, Clear Body (Requires Wedgelock AW2S-LED)         | 16   | 13A |
|  | AT06-2S-LED24VR1-OMC  | 2 Position, Plug, Socket, Structure Plus™ AT LED, 24V, RVP Circuit, Reduced Diameter Rear Seal (Green), Green LED, Clear Body, (Requires Wedgelock AW2S-LED)       | 16   | 13A |
|  | AW2S-LED              | 2 Position, Plug Wedgelock, StructurePlus™ AT LED, Black                                                                                                           | -    | -   |

**Single Position - StructurePlus™ ATHD Plugs**

|                                                                                    |                 |                                                           |    |    |
|------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------|----|----|
|  | ATHD06-1-8S-OM  | 1 Position, Plug, Socket, StructurePlus™ ATHD, Black Body | 8  | 60 |
|  | ATHD06-1-12S-OM | 1 Position, Plug, Socket, StructurePlus™ ATHD, Black Body | 12 | 25 |

**6 Position - StructurePlus™ ATP Plugs and Wedgelocks**

|                                                                                    |                  |                                                                                                                                                    |    |    |
|------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|  | ATP06-6S-OMBLK   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25 |
|  | ATP06-6S-OMRDBLK | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Black Body (Requires Wedgelock AWP-6S. Keyed Options Available.) | 12 | 25 |
|  | ATP06-6S-OMBLU   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Blue Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12 | 25 |
|  | ATP06-6S-OMRDBLU | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Blue Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25 |
|  | ATP06-6S-OMBRN   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Brown Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12 | 25 |



6 Position - **StructurePlus™ ATP** Plugs and Wedgelocks, cont.

| Image                                                                              | Part Number      | Description                                                                                                                                         | Size | Amp |
|------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|    | ATP06-6S-OMRDBRN | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Brown Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12   | 25  |
|    | ATP06-6S-OMGRN   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Green Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12   | 25  |
|    | ATP06-6S-OMRDGRN | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Green Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12   | 25  |
|    | ATP06-6S-OMGRY   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)    | 12   | 25  |
|    | ATP06-6S-OMRDGRY | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Grey Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12   | 25  |
|    | ATP06-6S-OMRED   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Red Body (Requires Wedgelock AWP-6S. Keyed Options Available.)     | 12   | 25  |
|   | ATP06-6S-OMRDRED | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Red Body (Requires Wedgelock AWP-6S. Keyed Options Available.)    | 12   | 25  |
|  | ATP06-6S-OMWHT   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), White Body (Requires Wedgelock AWP-6S. Keyed Options Available.)   | 12   | 25  |
|  | ATP06-6S-OMRDWHT | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), White Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12   | 25  |
|  | ATP06-6S-OMYEL   | 6 Position, Plug, Socket, StructurePlus™ ATP, Standard Diameter Rear Seal (Red), Yellow Body (Requires Wedgelock AWP-6S. Keyed Options Available.)  | 12   | 25  |
|  | ATP06-6S-OMRDYEL | 6 Position, Plug, Socket, StructurePlus™ ATP, Reduced Diameter Rear Seal (Green), Yellow Body (Requires Wedgelock AWP-6S. Keyed Options Available.) | 12   | 25  |
|  | AWP-6S           | 6 Position, Plug Wedgelock, StructurePlus™ ATP, Orange                                                                                              | -    | -   |
|  | AWP-6SA          | 6 Position, Plug Wedgelock, StructurePlus™ ATP, Keyed A, Grey                                                                                       | -    | -   |
|  | AWP-6SB          | 6 Position, Plug Wedgelock, StructurePlus™ ATP, Keyed B, Black                                                                                      | -    | -   |

**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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Your Interconnect Solutions Expert  
Customer Service +1 800 394 7732



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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