

## M12 CAT6a Bu gewinkelt



Image is for illustration purposes only. Please refer to product description.

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Part number        | 21 03 381 4806                                                                        |
| Specification      | M12 CAT6a Bu gewinkelt                                                                |
| HARTING eCatalogue | <a href="https://b2b.harting.com/21033814806">https://b2b.harting.com/21033814806</a> |

### Identification

|               |                         |
|---------------|-------------------------|
| Category      | Connectors              |
| Series        | Circular connectors M12 |
| Element       | PCB adapter             |
| Specification | Angled                  |

### Version

|                    |                                    |
|--------------------|------------------------------------|
| Termination method | Reflow soldering termination (THR) |
| Gender             | Female                             |
| Shielding          | Shielded                           |
| Number of contacts | 8                                  |
| Coding             | X-coding                           |
| Details            | Order housings separately          |
| Pack contents      | 30 pieces in a tray                |

### Technical characteristics

|                              |                                            |
|------------------------------|--------------------------------------------|
| Rated current                | 0.5 A                                      |
| Rated voltage                | 50 V                                       |
| Rated impulse voltage        | 0.8 kV                                     |
| Pollution degree             | 3                                          |
| Transmission characteristics | Cat. 6A Class E <sub>A</sub> up to 500 MHz |
| Overvoltage category         | III                                        |



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## Technical characteristics

|                       |                                      |
|-----------------------|--------------------------------------|
| Data rate             | 10 Mbit/s                            |
|                       | 100 Mbit/s                           |
|                       | 1 Gbit/s                             |
|                       | 2.5 Gbit/s                           |
|                       | 5 Gbit/s                             |
|                       | 10 Gbit/s                            |
| Insulation resistance | $>10^8 \Omega$                       |
| Contact resistance    | $\leq 10 \text{ m}\Omega$            |
| Limiting temperature  | -40 ... +85 °C                       |
| Mating cycles         | $\geq 100$                           |
| Isolation group       | IIIa ( $175 \leq \text{CTI} < 400$ ) |

## Material properties

|                                           |                                                        |
|-------------------------------------------|--------------------------------------------------------|
| Material (insert)                         | Liquid crystal polymer (LCP)                           |
| Material (contacts)                       | Copper alloy                                           |
| Surface (contacts)                        | Au over Ni Mating side                                 |
| Material flammability class acc. to UL 94 | V-0                                                    |
| RoHS                                      | compliant with exemption                               |
| RoHS exemptions                           | 6(c): Copper alloy containing up to 4 % lead by weight |
| ELV status                                | compliant with exemption                               |
| China RoHS                                | 50                                                     |
| REACH Annex XVII substances               | Not contained                                          |
| REACH ANNEX XIV substances                | Not contained                                          |
| REACH SVHC substances                     | Yes                                                    |
| REACH SVHC substances                     | Lead                                                   |
| ECHA SCIP number                          | 0d7d3693-d625-47ab-934a-d241bf72c86e                   |
| California Proposition 65 substances      | Yes                                                    |
| California Proposition 65 substances      | Lead                                                   |
|                                           | Nickel                                                 |
|                                           | Naphthalene                                            |
| Fire protection on railway vehicles       | EN 45545-2 (2020-08)                                   |
| Requirement set with Hazard Levels        | R26                                                    |

## Specifications and approvals

|                |                 |
|----------------|-----------------|
| Specifications | IEC 61076-2-109 |
|----------------|-----------------|



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Specifications and approvals

|          |                                   |
|----------|-----------------------------------|
| UL / CSA | UL 1977 ECBT2.E102079             |
|          | CSA-C22.2 No. 182.3 ECBT8.E102079 |

Commercial data

|                                |                                          |
|--------------------------------|------------------------------------------|
| Packaging size                 | 1                                        |
| Net weight                     | 18.57 g                                  |
| Country of origin              | Romania                                  |
| European customs tariff number | 85444995                                 |
| GTIN                           | 5713140138421                            |
| eCl@ss                         | 27460201 PCB connector (board connector) |