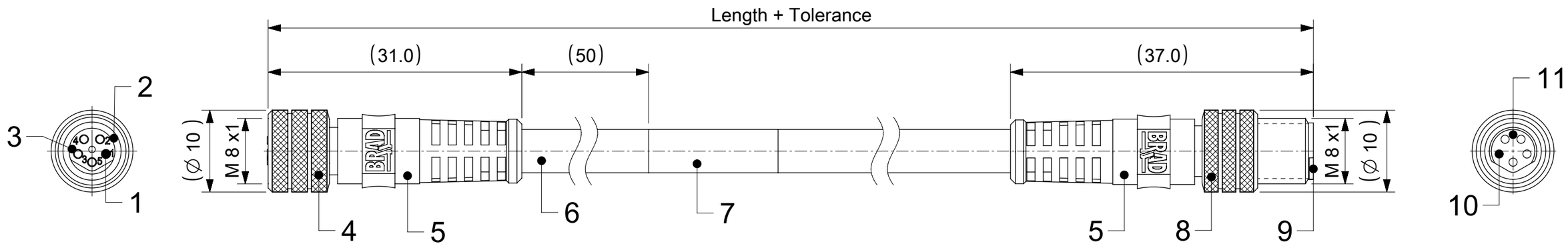
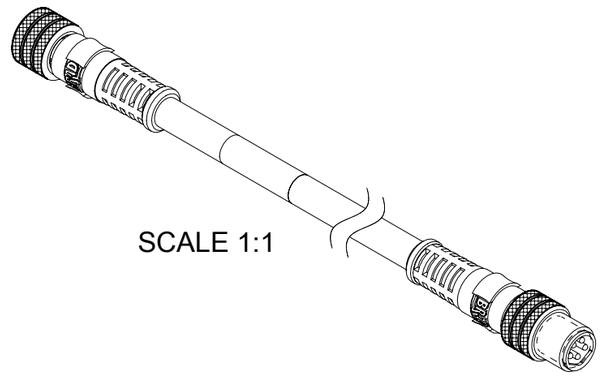
FEMALE PLUG M8 STRAIGHT TO MALE PLUG M8 STRAIGHT



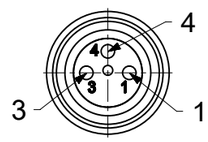
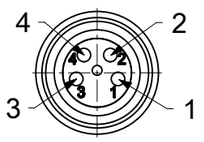
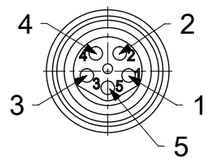
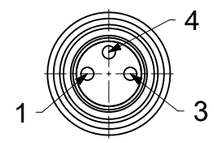
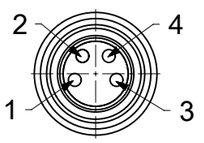
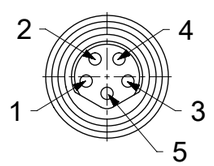
NOTES:

RATED VOLTAGE: 3 contacts 60V AC/DC
4 and 5 contacts 30V AC/DC
CURRENT RATING: 3, 4, 5 contacts 3A
PROTECTION CLASS: IP 67 in mated and locked position.
TEMPERATURE: SEE CABLE INFORMATION
INSULATION RESISTANCE: 10^8 Ω MIN.
MATING CYCLES: MIN. 100



SCALE 1:1

CONTACTS POSITION FRONT VIEW:

	3 CONTACTS	4 CONTACTS	5 CONTACTS
FEMALE			
MALE			

CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN
	3	BLUE	2	WHITE	2	WHITE
	4	BLACK	3	BLUE	3	BLUE
			4	BLACK	4	BLACK
					5	GREY

CODING ACCORDING TO IEC 61076-2-104

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
11	1	INSERT MALE BLACK	TPU	---
10	3 / 4 / 5	CONTACT M8 MALE	BRASS	SELECTIVE Au OVER Ni
9	1	SLEEVE	BRASS	NICKEL
8	1	COUPLING NUT M8 MALE	BRASS	NICKEL
7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES Ixx	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT M8 FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	TPU	---
2	1	O-RING RED	FKM	---
1	3 / 4 / 5	CONTACT M8 FEMALE	BRASS	SELECTIVE Au OVER Ni

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm — SCALE: 2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.05
1 PLACE	± 0.3
0 PLACES	± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: NEW PN ADDED

EC NO: 708388
DRWN: ARPITT 2022/05/27
CHK'D: RSILLER 2022/06/27
APPR: RSILLER 2022/06/27

INITIAL REVISION:
DRWN: JMARSZALEK 2016/09/15
APPR: RSILLER 2017/01/11

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120087

molex

CSE M8 M8 XP AC BC FE STR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200878240	PSD	000	A14

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	1 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2022/06/27 06:18:11

FORMAT: master Sheet A3
REVISION: J
DATE: 2020/01/15

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

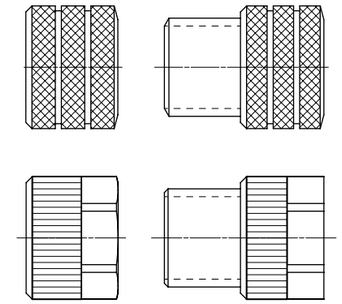
OPTIONS

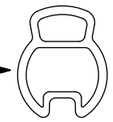
4	4	X	0	3	0	X	X	X	X	X	X	X	X

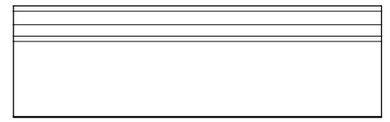
- 44=Nano-Change M8x1 Double ended
- Contacts: 3=3 Contacts 4=4 Contacts 5=5 Contacts
- Heads style: 030=Plug Female Straight to Plug Male Straight
- Cable type: See Table
- Units: M=Meter C=Centimeter
- Length Examples: 005=0.5 unit 010=1 unit 100=10 unit
- Overmold color: Blank (Standard)=Black A=Grey / G=Black / Y=Yellow
- Coupling Nut: Blank (Standard)=Knurled Brass Ni Plated 9=Knurled / Hexagonal SW9 Brass Ni Plated
- H= 2 pcs. of I/D Carrier PVC Transparent (Cables Ixx & P82 always with 2 pcs. of I/D Carrier)

COUPLING NUT

FEMALE MALE







CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E02	3 / 4 / 5	0.25 mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, >10xO.D.	-10°C to +80°C, >15xO.D.	-	-
H08	3 / 4 / 5	0.25 mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, >5xO.D.	-25°C to +80°C, >10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
I02	3 / 4	0.25 mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
P02	3 / 4 / 5	0.25 mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
P82	3	0.34 mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
H70	5	0.25 mm²	PUR BLACK	-	-	-40°C to +80°C, >5xO.D.	-25°C to +80°C, >10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-

CABLE LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length

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INITIAL REVISION:

DRWN: JMARSZALEK 2016/09/15

APPR: RSILLER 2017/01/11

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120087

molex

CSE M8 M8 XP AC BC FE STR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200878240	PSD	000	A14

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	2 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2022/06/27 06:18:11

FORMAT: master-tb-prod-A3
REVISION: J
DATE: 2020/01/14

PART LIST

No.	Molex PN	Engineering No.	Cable Length
1	1200271413	445030H08M010	1m
2	1200280321	443030E02M020	2m
3	1200280343	443030E02M030	3m
4	1200280384	443030I02M006	0.6m
5	1200280427	443030I02M010	1m
6	1200280462	443030E02M050	5m
7	1200280464	443030E02M040	4m
8	1200281222	443030P82M003	0.3m
9	1200281282	443030E02M025	2.5m
10	1200281284	444030E02M015	1.5m
11	1200281309	445030P02M010	1m
12	1200281310	445030P02M050	5m
13	1200870687	445030P02M006	0.6m
14	1200870688	445030P02M030	3m
15	1200875035	443030E02M006	0.6m
16	1200878025	443030P82M006	0.6m
17	1200878035	445030P02M020	2m
18	1200878036	445030P02M040	4m
19	1200878037	445030P02M100	10m
20	1200878124	444030H08M003	0.3m
21	1200878126	443030H08M030	3m
22	1200878127	443030H08M050	5m
23	1200878139	445030P02M250	25m
24	1200878140	443030P02M010	1m
25	1200878141	443030P02M006	0.6m
26	1200878149	443030H08M020	2m
27	1200878161	444030E02M200	20m
28	1200878166	443030H08M040	4m
29	1200878233	443030P02M050	5m
30	1200878234	443030P02M100	10m
31	1200878239	445030E02M006	0.6m
32	1200878240	445030E02M020	2m
33	1200878241	445030E02M050	5m
34	1200878258	443030E02M010	1m
35	1200878272	443030E02M002G	0.2m
36	1200878273	443030E02M003	0.3m
37	1200878274	443030E02M015	1.5m
38	1200878275	443030E02M025H	2.5m
39	1200878276	443030E02M050H	5m
40	1200878277	443030E02M060	6m
41	1200878278	443030E02M100	10m
42	1200878279	443030E02M150	15m
43	1200878280	443030E02M010G	1m
44	1200878281	443030E02M012G	1.2m
45	1200878282	443030I02M003	0.3m
46	1200878283	443030I02M015	1.5m
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48	1200878285	443030I02M030	3m
49	1200878286	443030I02M040	4m
50	1200878287	443030I02M050	5m
51	1200878288	443030I02M060	6m
52	1200878289	443030I02M070	7m
53	1200878290	443030I02M100	10m
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55	1200878292	443030P02M003	0.3m
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58	1200878295	443030P02M025	2.5m
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61	1200878298	443030P02M035	3.5m
62	1200878299	443030P02M040	4m
63	1200878300	443030P02M060	6m
64	1200878301	443030P02M070	7m
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66	1200878346	444030E02M003	0.3m
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74	1200878354	444030E02M050	5m
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82	1200878362	444030P02M050	5m
83	1200878494	443030E02M070	7m
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85	1200878500	443030H08M010	1m
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88	1200878536	443030E02M050Y	5m
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102	1200878627	445030H08M040	4m
103	1200878635	443030E02M080	8m
104	1200878636	443030H08M055	5.5m
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108	1200878645	443030E02M030H	3m
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116	1200878689	443030E02M015H	1.5m
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118	1200878693	444030E02M020H	2m
119	1200878699	443030H08M055H	5.5m
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123	1200878811	444030E02M0309H	3m
124	1200878812	444030P02M100	10m
125	1200878828	444030E02M0109H	1m
126	1200878834	443030E02M1009H	10m
127	1200878843	444030H08M100	10m
128	1200878844	444030H08M250	25m
129	1200878847	445030H08M006	0.6m
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131	1200878923	443030E02M1509H	15m
132	1200878941	444030H08M030	3m
133	1200878946	445030H08M020	2m
134	1200878947	445030H08M050	5m
135	1200878950	445030E02M010	1m
136	1200878951	444030H08C350	0.35m
137	1200878952	444030H08C750	0.75m
138	1200878978	443030H08M100	10m
139	1200888155	445030H70M020	2m
140	1200878982	443030H08M003H	0.3m
141	1200878983	443030H08M015H	1.5m
142	1200878984	443030H08M045H	4.5m
143	1200878985	443030H08M065	6.5m
144	1200878986	443030H08M075H	7.5m
145	1200878987	444030H08M015H	1.5m
146	1200878988	444030H08M025H	2.5m
147	1200878998	443030H08M030H	3m
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149	1200879001	443030H08M040H	4m
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159	1200879052	444030H08M035H	3.5m
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DOCUMENT STATUS	P1	RELEASE DATE	2022/06/27 06:18:11

FORMAT: master-SD-rev-A3
REVISION: J1
DATE: 2020/01/16

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FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
mm	2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.05
1 PLACE	±	0.3
0 PLACES	±	0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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EC NO: 708388
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INITIAL REVISION:
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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120087

molex

CSE M8 M8 XP AC BC FE STR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200878240	PSD	000	A14

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	3 OF 4

PART LIST

No.	Molex PN	Engineering No.	Cable Length
162	1200879055	443030H08M060H	6m
163	1200879056	443030H08M020H	2m
164	1200879074	444030H08M060H	6m
165	1200879080	443030H08M060	6m
166	1200879081	443030H08M120	12m
167	1200879082	443030H08M140	14m
168	1200879083	443030H08M160	16m
169	1200879084	443030H08M180	18m
170	1200879085	443030H08M200	20m
171	1200879086	443030H08M220	22m
172	1200879087	443030H08M240	24m
173	1200878980	445030H08M030	30m

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FP = 0

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mm	1:1

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1200878240	PSD	000	A14

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120087

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	4 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2022/06/27 06:18:11

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REVISION: J
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