## Cordsets M12



Actuator/sensor cordset with overmolded connector

**Cable end 1:**

M12 female, straight, A-coded, IP67

**Cable end 2:**

blunt cut
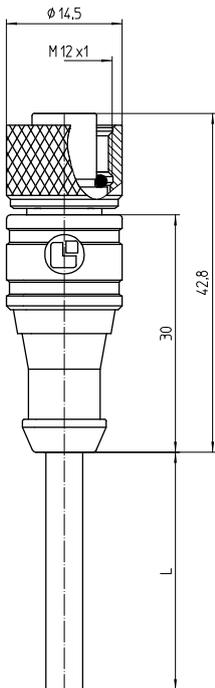
**Cable:**

PUR, black

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Approvals: c RU us

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## Environmental conditions

| | |
|---|---|
| Temperature range | -25 °C/+80 °C |

## Materials

| | |
|---|---|
| Insulating body | TPU GF, HB according to UL94 |
| Contact bush | CuZn, pre-nickel and gold-plated |
| Overmolding/handle | TPU [1] |
| Knurled nut | CuZn, nickel-plated |
| Seal | FKM |

[1] material halogen-free

## Mechanical data

| | |
|---|---|
| Mating cycles | ≥ 100 |
| Insertion force | ≤ 10 N [1] |
| Withdrawal force | ≤ 15 N [1] |
| Protection class | IP67 [2] |

[1] measured with a proper counterpart

[2] according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

## Connected cable

| | |
|---|---|
| Outer jacket | PUR, black |

## Electrical data (at $T_{amb}$ 20 °C)

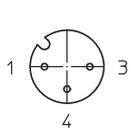| | |
|---|---|
| Contact resistance | ≤ 10 mΩ |
| Rated current | 4 A (3–5 poles)<br>2 A (8 poles)<br>1.5 A (12 poles)<br>($T_{amb}$ 40 °C) |
| Rated voltage | 250 V AC/DC (3–4 poles)<br>60 V AC/DC (5 poles)<br>30 V AC/DC (8–12 poles) |
| Rated impulse voltage | 2500 V (3–4 poles)<br>1500 V (5 poles)<br>800 V (8–12 poles) |
| Material group | I (IEC)/0 (UL) (CTI = 600) |
| Insulation resistance | > 100 MΩ |

## Associated products

Counterparts

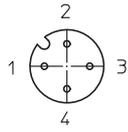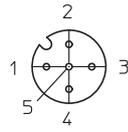| | | |
|---|---|---|
| 1210 ... 0... | 1210 ... 3... | 1210 1200 ... 0... |
| 1210 1200 ... 3... | 1210 1205 ... 3... | 1210 1206 ... L1 0... |
| 1210 1206 ... L1 3... | 1210 1206 ... L2 0... | 1210 1206 ... L2 3... |
| 1230 ... T16CW ... | 1230 ... T16CW100 ... | 1230 ... T16CW101 ... |

Pin assignments for female M12 connectors, A-coded, front view
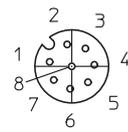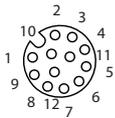


3 pole
1  brown
3  blue
4  black

4 pole
1  brown
2  white
3  blue
4  black

5 pole
1  brown
2  white
3  blue
4  black
5  gray

8 pole
1  white
2  brown
3  green
4  yellow
5  gray
6  pink
7  blue
8  red



12 pole
1  white
2  green
3  yellow
4  gray
5  pink
6  red
7  black
8  violet
9  gray/pink
10  red/blue
11  blue
12  brown

☑ 1230 … T16CW102 …    ☑ 1230 … T16CW103 …    ☑ 1230 … T16CW104 …
☑ 1230 … T16CW105 …    ☑ 1231 … T16CW100 …    ☑ 1231 … T9CP
☑ 1239 … T0CB          ☑ 1250 … T…CR          ☑ 1255 … T9CR
☑ 5012 04L1            ☑ 5012 08L1            ☑ 5012 10L1
☑ 5512 04DL1           ☑ 5512 04L1            ☑ 5512 08L1

Accessories
☑ 9912 CPF0            ☑ 9912 MRBU            ☑ 9912 MRGN
☑ 9912 MRRD            ☑ 9912 MRWH            ☑ 9912 MRYE

# Lutronic
passion for connections

| M12 | 1200 ... 3... |
|---|---|

| Designation | Pole Number | Connected Cable | PU (Pieces) | MDQ (Pieces) | Dimensions |
|---|---|---|---|---|---|
| | | | | | L (mm) |
| 1200 04 301 1m | 4 | PUR, black, 4 x 0.34 mm² (AWG 22), 910301, UL-style 20549 | 5 | 10 | 1000 |
| 1200 04 301 2m | 4 | PUR, black, 4 x 0.34 mm² (AWG 22), 910301, UL-style 20549 | 5 | 10 | 2000 |
| 1200 04 301 5m | 4 | PUR, black, 4 x 0.34 mm² (AWG 22), 910301, UL-style 20549 | 1 | 10 | 5000 |
| 1200 08 303 3m | 8 | PUR, black, 8 x 0.25 mm² (AWG 24), 910303, UL-style 20549 | 1 | 10 | 3000 |
| 1200 12 315 5m | 12 cULus pending | PUR, black, 12 x 0.25 mm² (AWG 24), 910315, UL-style 20549 | 1 | 10 | 5000 |

**Packaging:**
in a plastic bag