

|                           |                                 |                                                                                     |
|---------------------------|---------------------------------|-------------------------------------------------------------------------------------|
| 22260245                  | <b>DATA SHEET</b>               |  |
| Valid from:<br>19.12.2023 | <b>AB-C3-M8MS-(L*)PUR-M12FA</b> |                                                                                     |

## Product description

- Sensor/actuator cable, 3-pol, PUR halogen-free, black
- Straight M8-plug on angled M12-jack



## General characteristics

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of pins       | 3                                                                                                                                                                                   |
| Ambient temperature  | -25 °C to +90 °C (-13°F to 194°F) (plug / jack)<br>-40 °C to +80 °C (-40°F to 176°F) (cable, fixed installation)<br>-25 °C to +80 °C (-13°F to 176°F) (cable, movable installation) |
| Degree of protection | IP65 / IP67 / IP68                                                                                                                                                                  |
| Coding               | A-standard                                                                                                                                                                          |
| Tightening torque    | 0,4 Nm (M12-connector)<br>0,2 Nm (M8-connector)                                                                                                                                     |
| Plugging cycles      | ≥ 100                                                                                                                                                                               |

## Variation

| Article number | Description              | Length [m] | Configuration     |
|----------------|--------------------------|------------|-------------------|
| 22260245       | AB-C3-M8MS-0,3PUR-M12FA  | 0,3        | straight - angled |
| 22260246       | AB-C3-M8MS-0,6PUR-M12FA  | 0,6        | straight - angled |
| 22260247       | AB-C3-M8MS-1,0PUR-M12FA  | 1          | straight - angled |
| 22260248       | AB-C3-M8MS-2,0PUR-M12FA  | 2          | straight - angled |
| 22262117       | AB-C3-M8MS-8,0-PUR-M12FA | 8          | straight - angled |

## Additional note

Data sheet also valid for variant lengths. Other lengths on request.

## Electrical properties

|                      |                   |
|----------------------|-------------------|
| Rated voltage        | 48 V AC / 60 V DC |
| Rated current        | 4 A               |
| Overvoltage category | II                |
| Pollution degree     | 3                 |

## Mechanical properties

### Plug, jack

|                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| Inflammability class in accordance with UL 94 | HB                                       |
| Contact, material                             | CuSn                                     |
| Contact carrier, material                     | TPU GF                                   |
| Contact surface, material                     | Ni/Au                                    |
| Knurl, material                               | Zinc diecasting, nickel-plated           |
| Handle, material                              | TPU, flame retardant, self-extinguishing |
| Sealing, material                             | NBR                                      |

|                                           |                                       |             |
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### Line

|                                        |                                                                                                                                         |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Cable construction                     | 3 x AWG24/32                                                                                                                            |
| Signal line, construction              | 32 x 0,1 mm                                                                                                                             |
| Conductor cross-section                | 0,25 mm <sup>2</sup>                                                                                                                    |
| Conductor diameter including isolation | 1,17 mm ± 0,02 mm                                                                                                                       |
| Cable outer diameter                   | 4,4 mm ± 0,15mm                                                                                                                         |
| Insulation color                       | brown, blue, black                                                                                                                      |
| Sheath color                           | grey-black, RAL 7021                                                                                                                    |
| Number of bending cycles               | 10.000.000                                                                                                                              |
| Bending radius                         | 44 mm                                                                                                                                   |
| Traveling distance                     | 10 m                                                                                                                                    |
| Traveling speed                        | 3 m/s                                                                                                                                   |
| Acceleration                           | 10 m/s <sup>2</sup>                                                                                                                     |
| Cable weight                           | 18 kg/km                                                                                                                                |
| Outer coating, material                | PUR                                                                                                                                     |
| Wire insulation, material              | PP                                                                                                                                      |
| Insulation resistance                  | ≥ 100 GΩ*km (at 20 °C)                                                                                                                  |
| Conductor resistance                   | ≤ 78 Ω/km (at 20 °C)                                                                                                                    |
| Flame resistance                       | acc. to UL 758 / 1581 FT2<br>DIN EN 60332-2-2 (20 s)                                                                                    |
| Halogen-free                           | acc. to DIN VDE 0472 Part 815                                                                                                           |
| Oil resistance                         | acc. to DIN EN 60811-2-1                                                                                                                |
| Other resistances                      | resistant to hydrolysis and microbes<br>good resistant to acids, lyes and solvents<br>limited UV resistance acc. to DIN EN ISO 4892-2-A |

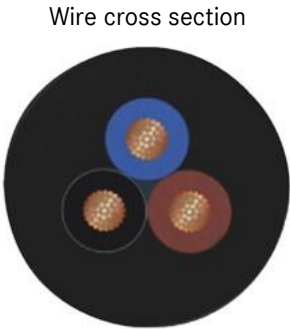
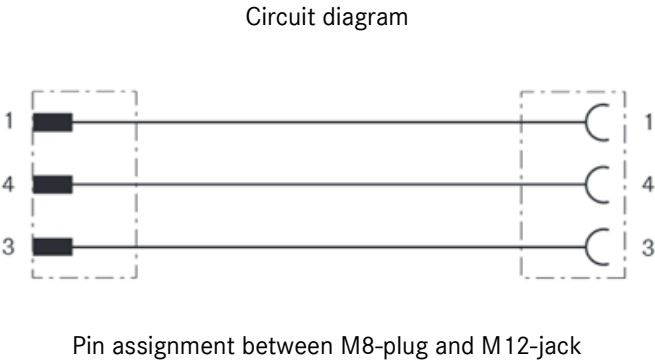
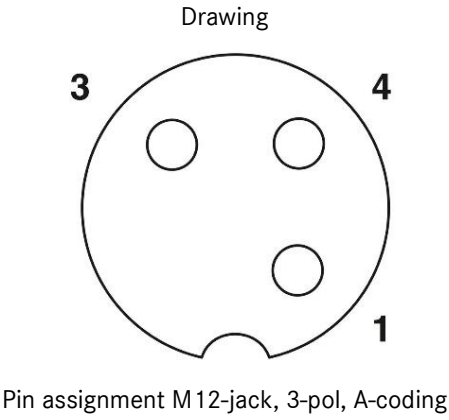
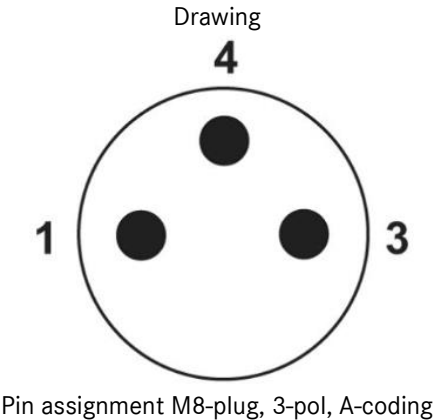
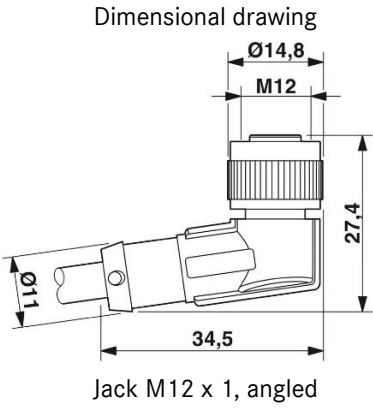
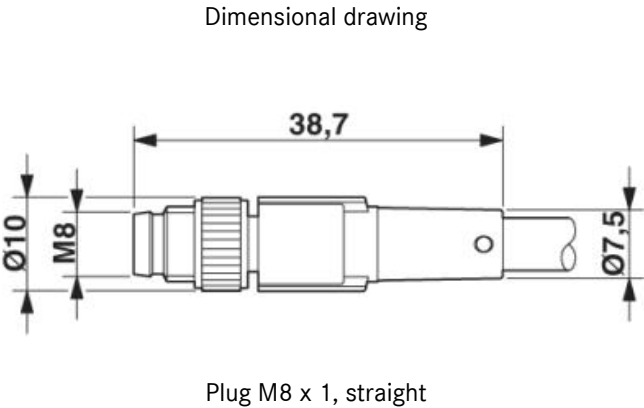
### Standards

|                                 |                 |
|---------------------------------|-----------------|
| Product standard, M12 connector | IEC 61076-2-101 |
| Product standard, M8 connector  | IEC 61076-2-104 |
| UL-Listed, E-File               | E249137         |

|                                           |                                       |             |
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Technical drawing



**Application range**  
For increased mechanical load and rough operating conditions

**Note**  
Photographs are not true to scale and do not represent detailed images of the respective products