


|                           |                                    |   |
|---------------------------|------------------------------------|---|
| 22260271                  | <b>DATA SHEET</b>                  |  |
| Valid from:<br>28.03.2019 | <b>AB-C3-M8MS-(L*)PUR-M12FA-2L</b> |   |

## Product description

Sensor/actuator cable, 3-pos., PUR black-grey, straight plug M8 on angled socket M12, 2 LEDs.



## Product variations

| Article number | Article description        | Length (L*) [m] |
|----------------|----------------------------|-----------------|
| 22260271       | AB-C3-M8MS-0,3PUR-M12FA-2L | 0.3             |
| 22260272       | AB-C3-M8MS-0,6PUR-M12FA-2L | 0.6             |
| 22260273       | AB-C3-M8MS-1,0PUR-M12FA-2L | 1.0             |
| 22260274       | AB-C3-M8MS-2,0PUR-M12FA-2L | 2.0             |

This datasheet is also valid for other length configurations. Other lengths upon request.

## M8 & M12-connector

### General properties

|                              |                                      |
|------------------------------|--------------------------------------|
| Coding                       | A                                    |
| Protection degree            | IP65/IP67/IP68                       |
| Number of contacts           | 3                                    |
| Ambient temperature          | -25 °C to +90 °C (-13 °F to +194 °F) |
| Rated voltage                | 24 V                                 |
| Rated current at 40°C (max.) | 4 A                                  |
| Insulation resistance        | ≥ 100 MΩ                             |
| Overvoltage category         | II                                   |
| Pollution degree             | 3                                    |
| Tightening torque            | 0.4 Nm (M12)<br>0.2 Nm (M8)          |
| Mating cycles (min.)         | 100                                  |


### Materials

|                                    |                              |
|------------------------------------|------------------------------|
| Material, contact carrier          | TPU GF                       |
| Inflammability class acc. to UL 94 | HB                           |
| Material, contact                  | CuSn                         |
| Surface, contact                   | Ni/Au                        |
| Material, grip body                | TPU                          |
| Material, knurl                    | zinc die-cast, nickel-plated |
| Material, sealing                  | NBR                          |

### Cable

|                                 |                      |
|---------------------------------|----------------------|
| Signal line, construction       | 32 x 0.10 mm         |
| Signal line, AWG                | 24                   |
| Conductor, material             | bare copper wire     |
| Conductor, cross-section        | 0.25 mm <sup>2</sup> |
| Number of cores                 | 3                    |
| Core identification code        | brown, blue, black   |
| Outer diameter, core insulation | 1.17 mm              |
| Core insulation, material       | PP                   |
| Outer sheath, material          | PUR                  |

|   |                                       |             |
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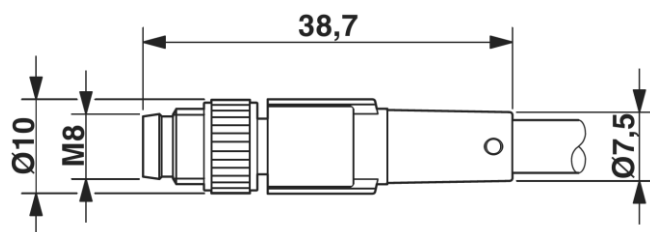
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|--|--|
| Outer sheath, colour                       | black-grey, RAL 7021   |
| Outer diameter, cable                      | 3.75 mm  |
| Ambient temperature, fixed installation    | -40 °C to +80 °C (-40 °F to +176 °F)   |
| Ambient temperature, flexing               | -25 °C to +80 °C (-13 °F to +176 °F)   |
| Minimum bending radius, fixed installation | 5 x cable diameter   |
| Minimum bending radius, flexing            | 10 x cable diameter  |
| Travel length                              | 10 m   |
| Travel speed                               | 3 m/s  |
| Acceleration                               | 10 m/s <sup>2</sup>  |
| Number of bending cycles                   | 10.000.000   |
| Nominal voltage                            | ≤ 300 V  |
| Test voltage                               | ≥ 3000 V   |
| Flame retardance                           | flame retardant acc. to UL-Style 758/1581 FT2 and<br>DIN EN 60332-2-2  |
| Halogen free                               | halogen free acc. to DIN VDE 0472 Part 815   |
| Oil resistance                             | oil resistant acc. to DIN EN 60811-2-1   |
| Other resistances                          | resistant to hydrolysis and microbes<br>good resistance to acids, lyes and solvents<br>resistant to sea water<br>limited UV resistance acc. to DIN EN ISO 4892-2-A |

### Standards/Approvals

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

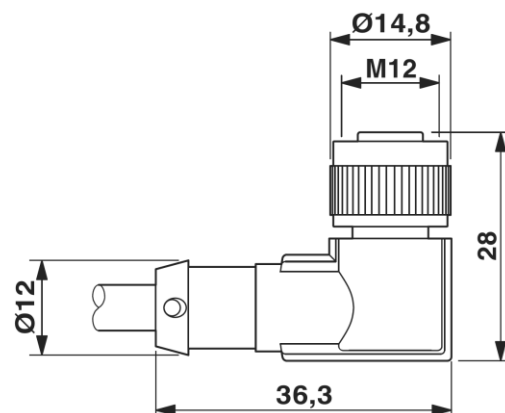
### Drawings

Dimensioned drawing, M8 plug




Pin assignment

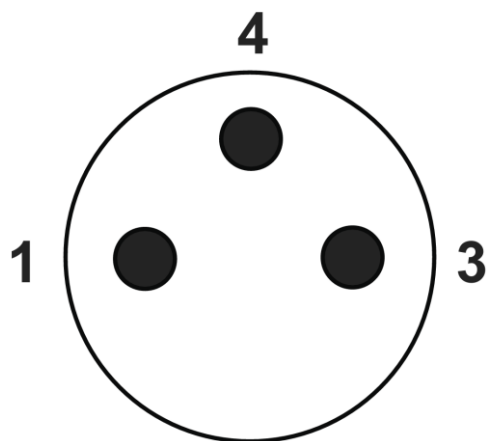
Dimensioned drawing, M12 socket



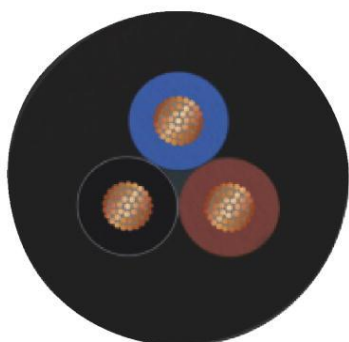
Pin assignment

|   |                                       |             |
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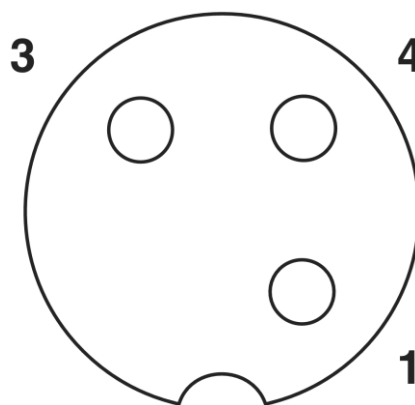
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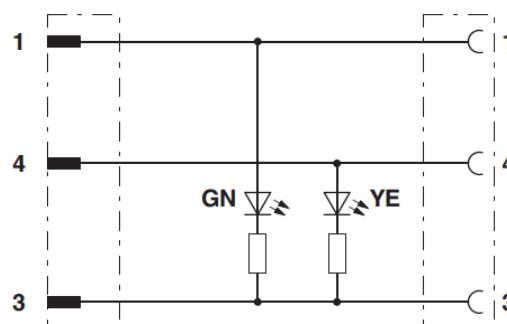
Cable



Core identification code: brown, blue, black



Wiring diagram



### Application range

For increased mechanical stress and harsh operating conditions

### Note

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

|   |                                       |             |
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