

|                           |                                 |                                                                                     |
|---------------------------|---------------------------------|-------------------------------------------------------------------------------------|
| 22260229                  | <b>DATA SHEET</b>               |  |
| Valid from:<br>17.09.2018 | <b>AB-C3-M12MS-(L*)PUR-M8FA</b> |                                                                                     |

## Description

- Sensor / actuator cable, 3-pole, PUR halogen-free, black grey RAL 7021
- Plug straight M12, A-coded
- Jack angled M8



## General characteristics

|                      |                                                                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of pins       | 3                                                                                                                                                                          |
| Ambient temperature  | -25 to +90 °C (-13°F to 194°F) (Plug / jack)<br>-40 to +80 °C (-40°F to 176°F) (Cable, Fixed Installation)<br>-25 to +80 °C (-13°F to 176°F) (Cable, Movable Installation) |
| Degree of protection | IP65 / IP67 / IP68                                                                                                                                                         |
| Coding               | A-standard                                                                                                                                                                 |
| Tightening torque    | 0.2 Nm (M8-connector)<br>0.4 Nm (M12-connector)                                                                                                                            |

## Variants

| Material | Description             | Length (L*) [m] | Configuration     |
|----------|-------------------------|-----------------|-------------------|
| 22260229 | AB-C3-M12MS-0.3PUR-M8FA | 0.3             | Straight - angled |
| 22260230 | AB-C3-M12MS-0.6PUR-M8FA | 0.6             | Straight - angled |
| 22260231 | AB-C3-M12MS-1.0PUR-M8FA | 1               | Straight - angled |
| 22260232 | AB-C3-M12MS-2.0PUR-M8FA | 2               | Straight - angled |

## Electrical properties

|                        |      |
|------------------------|------|
| Rated voltage          | 60 V |
| Rated current at 40 °C | 4 A  |
| Over voltage category  | II   |
| Pollution degree       | 3    |

## Mechanical properties

### Plug & jack

|                                         |                                |
|-----------------------------------------|--------------------------------|
| Inflammability class according to UL 94 | HB                             |
| Contact                                 | CuSn                           |
| Contact surface                         | Ni / Au                        |
| Contact carrier                         | TPU GF                         |
| Material, Knurl                         | Zinc diecasting, nickel-plated |
| Handle                                  | TPU                            |
| Seal                                    | NBR                            |

|                                           |                                       |             |
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## Line

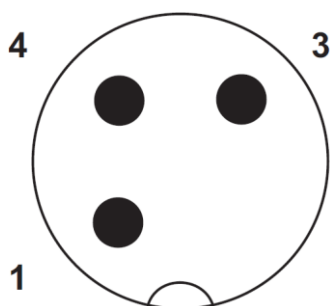
|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Cable construction                     | 3x AWG 24/32                                       |
| Conductor diameter including isolation | 1.17 mm $\pm$ 0.02 mm                              |
| Cable outer diameter                   | 3.6 mm $\pm$ 0.15 mm                               |
| Core identification                    | Brown, Blue, Black                                 |
| Sheath colour                          | Black Grey, similar to RAL 7021                    |
| Bending radius                         | 44 mm                                              |
| Number of bending cycle                | 10000000                                           |
| Traveling distance                     | 10 m                                               |
| Travel speed                           | 3 m/s                                              |
| Acceleration                           | 10 m/s <sup>2</sup>                                |
| Cable weight                           | 18 kg/km                                           |
| Outer coating, material                | PUR                                                |
| Material wire insulation               | PP                                                 |
| 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                       |

## Standards / Approvals

|                                 |                 |
|---------------------------------|-----------------|
| Product standard, M8 connector  | IEC 61076-2-104 |
| Product standard, M12 connector | IEC 61076-2-101 |

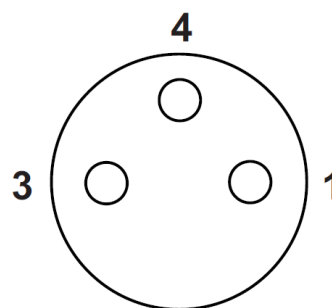
## Technical drawing

Drawing



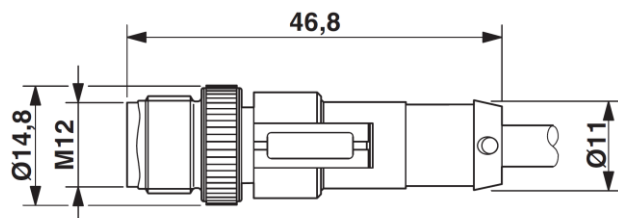
M12-plug, 3-pins, A-coding

Drawing



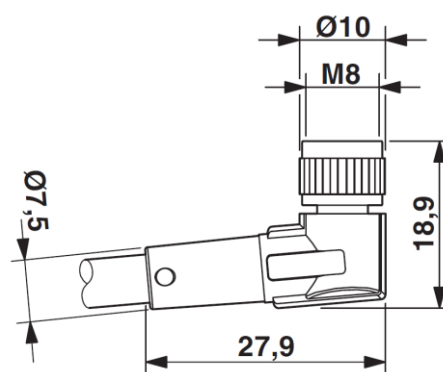
M8-jack, 3-pins, A-coding

Dimensional drawing



Plug M12x1, straight

Dimensional drawing



Jack M8x1, straight

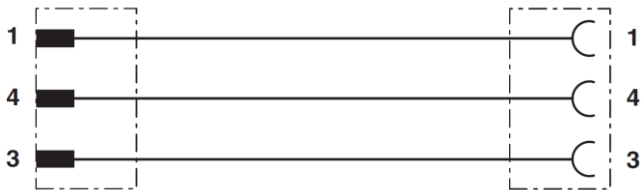
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Wire cross section



Circuit diagram



Contact assignment the M12 connector

Application range

Automation, Tool shop, Mechanical Engineering and plant engineering

Note

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