

|                           |                            |                                                                                     |
|---------------------------|----------------------------|-------------------------------------------------------------------------------------|
| 22260400                  | <b>DATA SHEET</b>          |  |
| Valid from:<br>17.09.2018 | <b>AB-C5-M12MS-(L*)PUR</b> |                                                                                     |

## Product description

Sensor/actuator cable, 5-pos., PUR black, straight plug M12 on free conductor end.



## Product variations

| Article number | Article description | Length (L*) [m] |
|----------------|---------------------|-----------------|
| 22260400       | AB-C5-M12MS-2,0PUR  | 2               |
| 22260401       | AB-C5-M12MS-5,0PUR  | 5               |
| 22260414       | AB-C5-M12MS-10,0PUR | 10              |

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

## M12 connector

### General properties

|                       |                  |
|-----------------------|------------------|
| Coding                | A                |
| Protection degree     | IP65/IP67/IP68   |
| Number of contacts    | 5                |
| Ambient temperature   | -25 °C to +90 °C |
| Rated voltage         | 60 V             |
| Rated current         | 4 A              |
| Insulation resistance | ≥ 100 MΩ         |
| Volume resistance     | ≤ 5 mΩ           |
| Overvoltage category  | II               |
| Pollution degree      | 3                |
| Tightening torque     | 0.4 Nm           |
| Mating cycles         | 100              |

### Materials

|                                                                |                              |
|----------------------------------------------------------------|------------------------------|
| Contact carrier                                                | TPU GF                       |
| Contact carrier, inflammability class in accordance with UL 94 | HB                           |
| Material, contacts                                             | CuSn                         |
| Contact surface                                                | Ni/Au                        |
| Material, grip body                                            | TPU                          |
| Material, knurl                                                | zinc die-cast, nickel-plated |
| Material, sealing                                              | NBR                          |

|                                           |                                       |             |
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## Cable

|                                            |                                                                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Signal line, construction                  | 42 x 0.10 mm                                                                                                                 |
| Signal line, AWG                           | 22                                                                                                                           |
| Conductor, material                        | stranded of bare copper wire                                                                                                 |
| Conductor, cross-section                   | 0.34 mm <sup>2</sup>                                                                                                         |
| Number of cores                            | 5                                                                                                                            |
| Core identification code                   | brown (1), white (2), blue (3), black (4),<br>green-yellow (5)                                                               |
| Outer diameter, core insulation            | 1.27 mm                                                                                                                      |
| Core insulation, material                  | PP                                                                                                                           |
| Outer sheath                               | PUR                                                                                                                          |
| Outer sheath, color                        | grey-black similar to RAL 7021                                                                                               |
| Outer diameter, cable                      | 5.0 mm                                                                                                                       |
| Ambient temperature, fixed installation    | -40 °C to +80 °C                                                                                                             |
| Ambient temperature, flexing               | -25 °C to +80 °C                                                                                                             |
| 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                                                                                                                        |
| Number of bending cycles                   | 4.000.000                                                                                                                    |
| Nominal voltage                            | ≤ 300 V                                                                                                                      |
| Test voltage                               | ≥ 3000 V                                                                                                                     |
| Flame retardance                           | flame retardant acc. to UL 758/1581 (horizontal)<br>UL 758/1581 FT2                                                          |
| Halogen free                               | halogen free acc. to DIN VDE 0472 Part 815<br>DIN EN 50267-2-1                                                               |
| Oil resistance                             | oil resistant acc. to DIN EN 60811-2-1<br>resistant to hydrolysis and microbes<br>good resistant to acids, lyes and solvents |
| Other resistances                          | resistant to sea water<br>limited UV resistance acc. to DIN EN ISO 4892-2-A<br>low-adhesion<br>abrasion-resistant            |

## Standards/Approvals

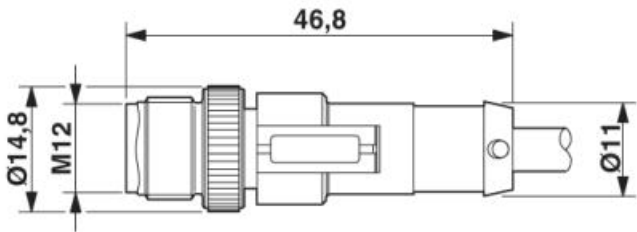
|                                 |                 |
|---------------------------------|-----------------|
| Product standard, M12 connector | IEC 61076-2-101 |
| UL-listed, E-File               | E249137         |

|                                           |                                       |             |
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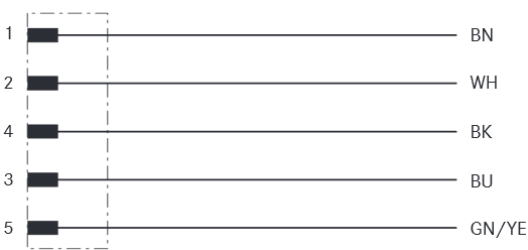
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Drawings

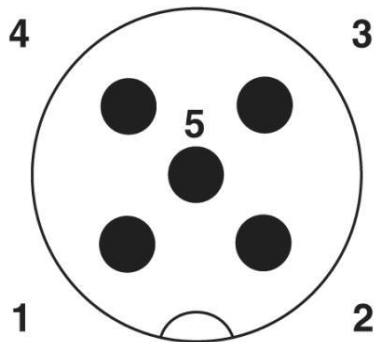
Dimensioned drawing, M12 connector



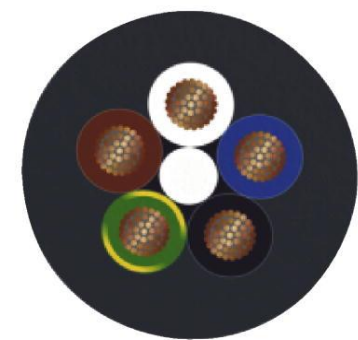
Wiring diagram



Pin assignment



Cable



Core identification code: brown (1), white (2), blue (3), black (4), green-yellow (5)

Application range

Automation, industrial machinery and plant engineering

Note

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

|                                           |                                       |             |
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