

|                           |                             |                                                                                     |
|---------------------------|-----------------------------|-------------------------------------------------------------------------------------|
| 22260767                  | <b>DATA SHEET</b>           |  |
| Valid from:<br>17.09.2018 | <b>AB-PB-M12MS-(L*) PUR</b> |                                                                                     |

## Description

- Bus system cable, 2-pins, shielded, PUR halogen-free, violet
- PROFIBUS 12 Mbit/s
- Straight M12-plug on free conductor end



## General characteristics

|                                    |                                                                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fieldbus                           | PROFIBUS                                                                                                                                                                                    |
| Number of pins                     | 2                                                                                                                                                                                           |
| Ambient temperature                | -25 to +90 °C (-13°F to 194°F) (connector)<br>-40 to +80 °C (-40°F to 176°F) (cable fixed installation)<br>-30 to +80 °C (-22°F to 176°F) (cable flexible)<br>≤ +70 °C (158 °F) (dragchain) |
| Degree of protection               | IP 65 / IP 67                                                                                                                                                                               |
| Coding                             | B-inverse                                                                                                                                                                                   |
| Torque                             | 0.4 Nm (M12-connector)                                                                                                                                                                      |
| Cable length of the free cable end | 50 mm                                                                                                                                                                                       |

## Variation

| Material | Description          | Length (L*) [m] | Configuration |
|----------|----------------------|-----------------|---------------|
| 22260767 | AB-PB-M12MS-2,0 PUR  | 2               | straight      |
| 22260768 | AB-PB-M12MS-5,0 PUR  | 5               | straight      |
| 22260769 | AB-PB-M12MS-10,0 PUR | 10              | straight      |

## Electrical properties

|                                |                                |
|--------------------------------|--------------------------------|
| Rated voltage                  | 250 V                          |
| Rated current at 40 °C         | 4 A                            |
| Overvoltage category           | II                             |
| Pollution degree               | 3                              |
| Characteristic impedance, line | 150 Ω ± 10 % (3 MHz ... 20MHz) |

## Connector pin assignment

|                                             |                                                  |
|---------------------------------------------|--------------------------------------------------|
| Pin = wire colour (signal) = Pin (optional) | 2 (plug) = GN (A-line)<br>4 (plug) = RD (B-line) |
|---------------------------------------------|--------------------------------------------------|

## Mechanical properties

### Plug

|                 |                                |
|-----------------|--------------------------------|
| Contact         | CuSn                           |
| Contact surface | Ni / Au                        |
| Contact carrier | TPU GF                         |
| Knurl           | Zinc diecasting, nickel-plated |
| Handle          | TPU                            |

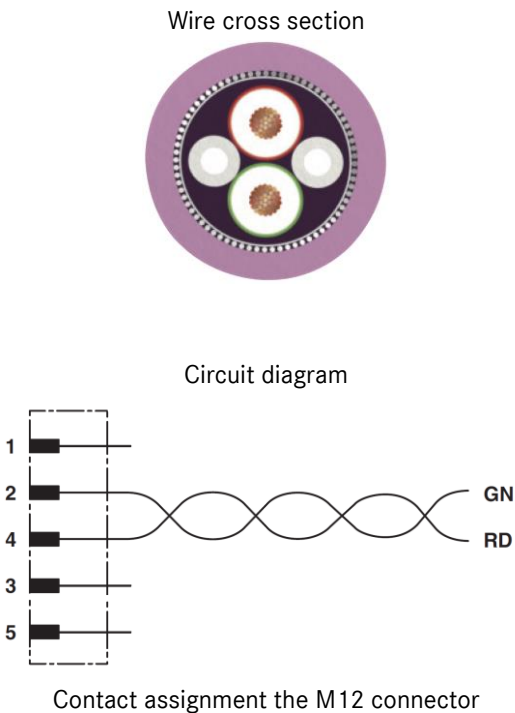
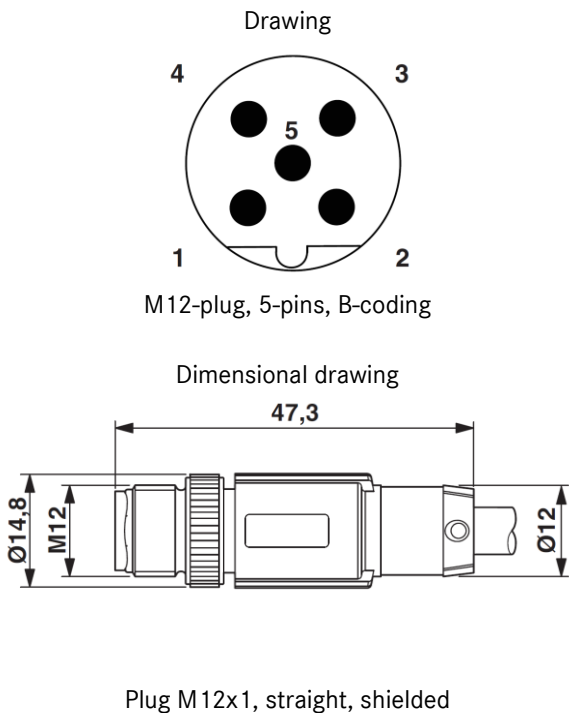
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|-------------------------------------------|---------------------------------------|-------------|
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Line

|                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| Cable construction                     | 2x AWG24/19                                             |
| Conductor diameter including isolation | 2.55 mm ±0.07 mm                                        |
| Cable outer diameter                   | 7.8 mm ±0.2 mm                                          |
| Core identification                    | red, green                                              |
| Sheath colour                          | Violet, similar to RAL 4001                             |
| Shielding                              | Plastic Laminated alufoil, braid of tinned copper wires |
| Bending radius                         | 80 mm                                                   |
| Number of bending cycle                | 5000000                                                 |
| Traveling distance                     | 4,5 m                                                   |
| Travel speed                           | 3 m/s                                                   |
| Acceleration                           | 3 m/s <sup>2</sup>                                      |
| Cable weight                           | 90 kg/km                                                |
| Outer coating, material                | PUR                                                     |
| Wire insulation, material              | Foam-Skin PP                                            |
| Flame resistance                       | UL 1581, Sec. 1060 (FT-1)<br>IEC 60332-1-2              |
| Halogen-free                           | acc. to DIN VDE 0472 part 815<br>acc. to IEC 60754-1    |

Technical drawing



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.