

|                           |                            |                                                                                     |
|---------------------------|----------------------------|-------------------------------------------------------------------------------------|
| 22260223                  | <b>DATA SHEET</b>          |  |
| Valid from:<br>19.12.2023 | <b>AB-C3-M12MA-(L*)PUR</b> |                                                                                     |

## Product description

- Sensor/actuator cable, 3-pol, PUR halogen-free, black
- Angled M12-plug on free conductor end



## 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)                                                                                                                                                              |
| Plugging cycles      | ≥ 100                                                                                                                                                                               |

## Variation

| Article number | Description         | Length [m] | Configuration |
|----------------|---------------------|------------|---------------|
| 22260223       | AB-C3-M12MA-2,0PUR  | 2          | angled        |
| 22260224       | AB-C3-M12MA-5,0PUR  | 5          | angled        |
| 22260256       | AB-C3-M12MA-10,0PUR | 10         | angled        |

## Additional note

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

## Electrical properties

|                      |       |
|----------------------|-------|
| Rated voltage        | 250 V |
| Rated current        | 4 A   |
| Overvoltage category | II    |
| Pollution degree     | 3     |

## Mechanical properties

### Plug

|                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| 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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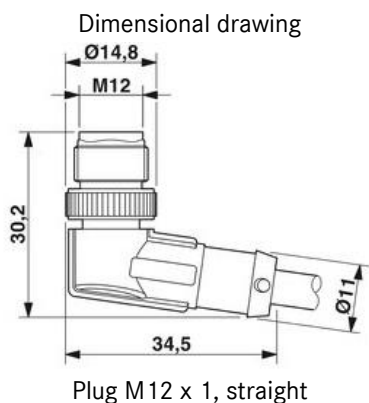
## Line

|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Cable construction                     | 3 x AWG22/42                                       |
| Signal line, construction              | 42 x 0,1 mm                                        |
| Conductor cross-section                | 0,34 mm <sup>2</sup>                               |
| Conductor diameter including isolation | 1,27 mm ± 0,02 mm                                  |
| Cable outer diameter D                 | 4,4 mm ± 0,15mm                                    |
| Insulation color                       | brown, blue, black                                 |
| Sheath color                           | grey-black, RAL 7021                               |
| Number of bending cycles               | 4.000.000                                          |
| Bending radius                         | 44 mm                                              |
| Traveling distance                     | 10 m                                               |
| Traveling speed                        | 3 m/s                                              |
| Acceleration                           | 10 m/s <sup>2</sup>                                |
| Cable weight                           | 23 kg/km                                           |
| Outer coating, material                | PUR                                                |
| Wire insulation, material              | PP                                                 |
| Insulation resistance                  | ≥ 100 GΩ*km (bei 20 °C)                            |
| Conductor resistance                   | ≤ 58 Ω/km (bei 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                           |

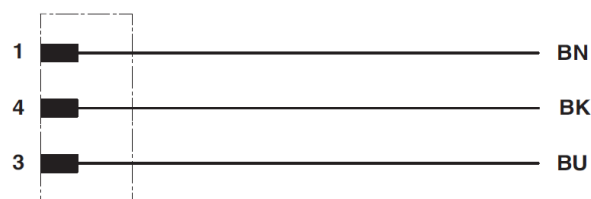
## Standards/Approvals

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

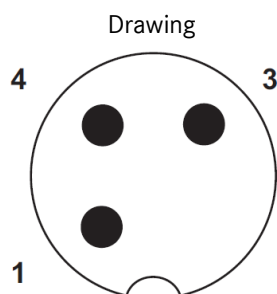
## Technical drawing



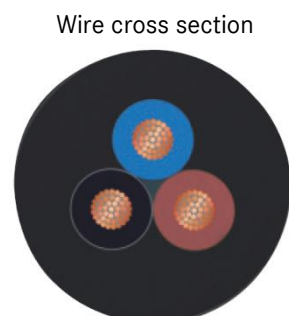
Circuit diagram



Pin assignment M12-plug



Pin assignment M12-plug, 3-pol, A-coding



|                                           |                                       |             |
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### 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.

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