

|                           |                            |                                                                                     |
|---------------------------|----------------------------|-------------------------------------------------------------------------------------|
| 22260094                  | <b>DATA SHEET</b>          |  |
| Valid from:<br>29.11.2023 | <b>AB-C8-M12MA-(L*)PUR</b> |                                                                                     |

## Product description

- Sensor/actuator cable, 8-pol, PUR halogen-free, black
- Angled M12-plug on free conductor end



## General characteristics

|                      |                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of pins       | 8                                                                                                                                                                                   |
| 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 |
|----------------|---------------------|------------|---------------|
| 22260094       | AB-C8-M12MA-2,0PUR  | 2          | angled        |
| 22260095       | AB-C8-M12MA-5,0PUR  | 5          | angled        |
| 22260096       | AB-C8-M12MA-10,0PUR | 10         | angled        |

## Additional note

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

## Electrical properties

|                      |      |
|----------------------|------|
| Rated voltage        | 30 V |
| Rated current        | 2 A  |
| Overvoltage category | II   |
| Pollution degree     | 3    |

## Mechanical properties

### Plug

|                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| Inflammability class in accordance with UL 94 | HB                                       |
| Contact, material                             | CuZn                                     |
| Contact carrier, material                     | TPU GF                                   |
| Contact surface, material                     | Ni/Au                                    |
| Knurl, material                               | Zinc diecasting, nickel-plated           |
| Handle, material                              | TPU, flame retardant, self-extinguishing |

### Line

|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Cable construction                     | 8 x AWG24/32                                       |
| Signal line, construction              | 32 x 0,1 mm                                        |
| Conductor cross-section                | 0,25 mm <sup>2</sup>                               |
| Conductor diameter including isolation | 1,17 mm ± 0,02 mm                                  |
| Cable outer diameter                   | 5,9 mm ± 0,15mm                                    |
| Insulation color                       | white, brown, green, yellow, grey, pink, blue, red |

|                                           |                                       |             |
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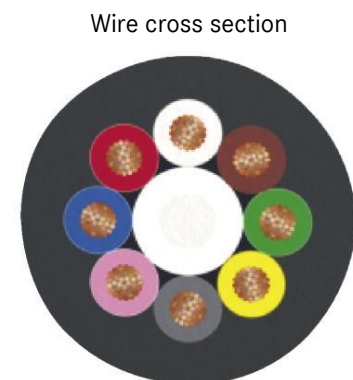
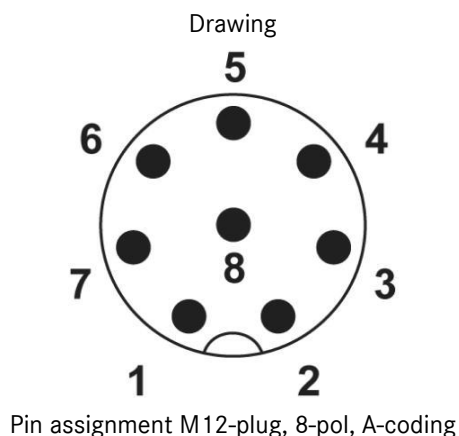
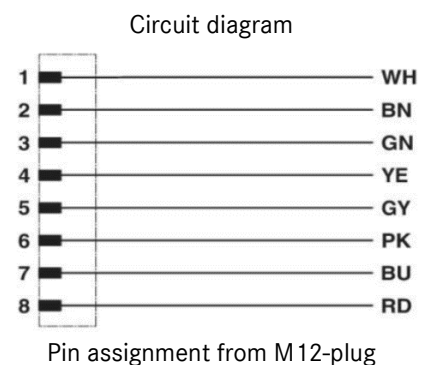
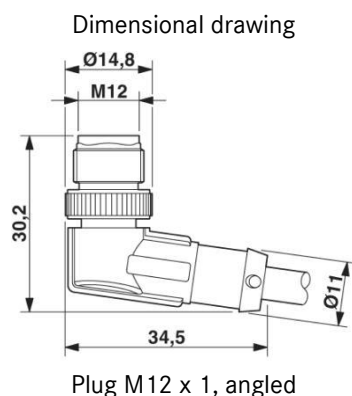
|                           |                                                                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sheath color              | grey-black, RAL 7021                                                                                                                                                               |
| Number of bending cycles  | 4.000.000                                                                                                                                                                          |
| Bending radius            | 59 mm                                                                                                                                                                              |
| Traveling distance        | 10 m                                                                                                                                                                               |
| Traveling speed           | 3 m/s                                                                                                                                                                              |
| Acceleration              | 10 m/s <sup>2</sup>                                                                                                                                                                |
| Cable weight              | 46 kg/km                                                                                                                                                                           |
| Outer coating, material   | PUR                                                                                                                                                                                |
| Wire insulation, material | PP                                                                                                                                                                                 |
| Insulation resistance     | ≥ 100 GΩ*km (at 20 °C)                                                                                                                                                             |
| Conductor resistance      | ≤ 78 Ω/km                                                                                                                                                                          |
| Flame resistance          | acc. to UL-Style 20549                                                                                                                                                             |
| Halogen-free              | acc. to DIN VDE 0472 Part 815                                                                                                                                                      |
| Oil resistance            | acc. to DIN EN 60811-2-1                                                                                                                                                           |
| Other resistances         | resistant to hydrolysis and microbes<br>good resistant to acids, lyes and solvents<br>limited UV resistance acc. to DIN EN ISO 4892-2-A<br>suitable for drag chains, silicone-free |

## Standards/Approvals

Product standard, M12 connector  
UL-Listed, E-File

IEC 61076-2-101  
E249137

## Technical drawing



|                                           |                                       |             |
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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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