

|                           |                                    |                                                                                     |
|---------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| 22260271                  | <b>DATA SHEET</b>                  |  |
| Valid from:<br>19.12.2023 | <b>AB-C3-M8MS-(L*)PUR-M12FA-2L</b> |                                                                                     |

## Product description

- Sensor/actuator cable, 3-pol, PUR halogen-free, black
- Straight M8-plug on angled M12-jack
- 2 LEDs



## 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)<br>0,2 Nm (M8-connector)                                                                                                                                     |
| Plugging cycles      | ≥ 100                                                                                                                                                                               |

## Variation

| Article number | Description                | Length [m] | Configuration     |
|----------------|----------------------------|------------|-------------------|
| 22260271       | AB-C3-M8MS-0,3PUR-M12FA-2L | 0,3        | straight - angled |
| 22260272       | AB-C3-M8MS-0,6PUR-M12FA-2L | 0,6        | straight - angled |
| 22260273       | AB-C3-M8MS-1,0PUR-M12FA-2L | 1          | straight - angled |
| 22260274       | AB-C3-M8MS-2,0PUR-M12FA-2L | 2          | straight - angled |
| 22262174       | AB-C3-M8MS-6,0PUR-M12FA-2L | 6          | straight - angled |

## Additional note

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

## Electrical properties

|                      |         |
|----------------------|---------|
| Rated voltage        | 24 V DC |
| Rated current        | 4 A     |
| Overvoltage category | II      |
| Pollution degree     | 3       |

## Mechanical properties

### Plug, jack

|                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| 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                                      |

|                                           |                                       |             |
|-------------------------------------------|---------------------------------------|-------------|
| Creator: THLE3/PDP<br>Released: IVSE1/PDP | Document: DB22260271EN<br>Version: 07 | Page 1 of 3 |
|-------------------------------------------|---------------------------------------|-------------|

|                           |                                    |                                                                                     |
|---------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| 22260271                  | <b>DATA SHEET</b>                  |  |
| Valid from:<br>19.12.2023 | <b>AB-C3-M8MS-(L*)PUR-M12FA-2L</b> |                                                                                     |

#### Line

|                                        |                                                      |
|----------------------------------------|------------------------------------------------------|
| Cable construction                     | 3 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                   | 4,4 mm ± 0,15mm                                      |
| Insulation color                       | brown, blue, black                                   |
| Sheath color                           | grey-black, RAL 7021                                 |
| Number of bending cycles               | 10.000.000                                           |
| Bending radius                         | 44 mm                                                |
| Traveling distance                     | 10 m                                                 |
| Traveling speed                        | 3 m/s                                                |
| Acceleration                           | 10 m/s <sup>2</sup>                                  |
| Cable weight                           | 18 kg/km                                             |
| Outer coating, material                | PUR                                                  |
| Wire insulation, material              | PP                                                   |
| Insulation resistance                  | ≥ 100 GΩ*km (at 20 °C)                               |
| Conductor resistance                   | ≤ 78 Ω/km (at 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

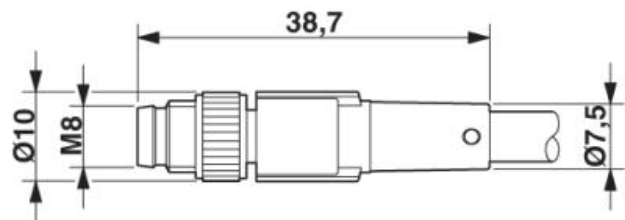
|                                 |                 |
|---------------------------------|-----------------|
| Product standard, M12 connector | IEC 61076-2-101 |
| Product standard, M8 connector  | IEC 61076-2-104 |
| UL-Listed, E-File               | E249137         |

|                                           |                                       |             |
|-------------------------------------------|---------------------------------------|-------------|
| Creator: THLE3/PDP<br>Released: IVSE1/PDP | Document: DB22260271EN<br>Version: 07 | Page 2 of 3 |
|-------------------------------------------|---------------------------------------|-------------|

|                           |                                    |                                                                                     |
|---------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| 22260271                  | <b>DATA SHEET</b>                  |  |
| Valid from:<br>19.12.2023 | <b>AB-C3-M8MS-(L*)PUR-M12FA-2L</b> |                                                                                     |

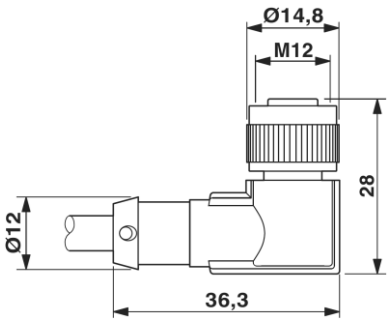
Technical drawing

Dimensional drawing



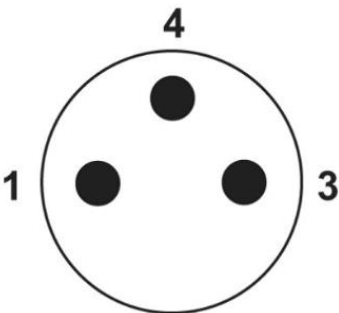
Plug M8 x 1, straight

Dimensional drawing



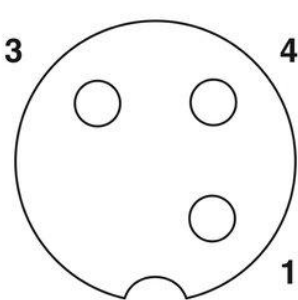
Jack M12 x 1, angled, with LED

Drawing



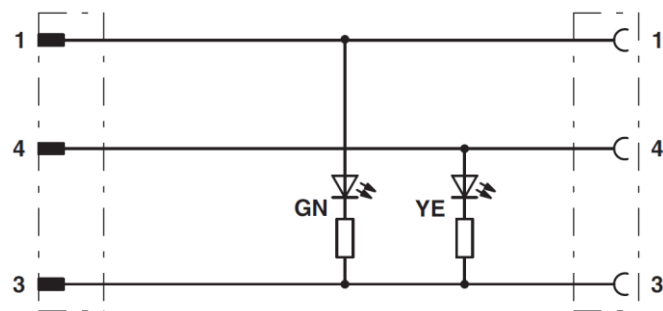
Pin assignment M8-plug, 3-pol, A-coding

Drawing



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

Circuit diagram



Pin assignment between M8-plug and M12-jack

Wire cross section



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.

|                                           |                                       |             |
|-------------------------------------------|---------------------------------------|-------------|
| Creator: THLE3/PDP<br>Released: IVSE1/PDP | Document: DB22260271EN<br>Version: 07 | Page 3 of 3 |
|-------------------------------------------|---------------------------------------|-------------|