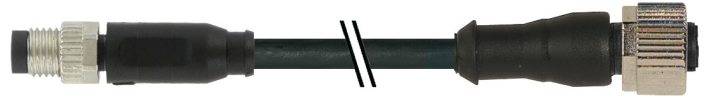


### Overview

- M8, connector, A-coded, 4-pin; PUR, 500 cm; M12, female, A-coded, 4-pin
- Dragchain capable
- Head A: IP65, IP66K, IP67; Head B: IP65, IP66K, IP67
- Cable: good resistance against chemicals and oils
- Halogen free



### Technical data

#### Side A

|                              |                   |
|------------------------------|-------------------|
| Head A: Connection           | M8                |
| Head A: Angle cable outlet   | 0°                |
| Head A: Gender               | Male              |
| Head A: Coding               | A                 |
| Head A: No. of poles         | 4                 |
| Head A: LED                  | No                |
| Head A: Width across flats   | AF9               |
| Head A: Tightening torque    | 0.4 Nm            |
| Head A: Knurled nut material | Brass, surface Ni |
| Head A: Body color           | Black             |
| Labeling sleeve side A       | Yes               |

#### Side B

|                              |                                       |
|------------------------------|---------------------------------------|
| Head B: Connection           | M12                                   |
| Head B: Angle cable outlet   | 0°                                    |
| Head B: Gender               | Female                                |
| Head B: Coding               | A                                     |
| Head B: No. of poles         | 4                                     |
| Head B: LED                  | No                                    |
| Head B: Width across flats   | AF13                                  |
| Head B: Tightening torque    | 0.6 Nm                                |
| Head B: Knurled nut material | Zinc-pressure die casting, surface Ni |
| Head B: Body color           | Black                                 |
| Head B: Gasket material      | FKM                                   |
| Labeling sleeve side B       | Yes                                   |

#### Cables

|                           |                      |
|---------------------------|----------------------|
| Cable length              | 500 cm               |
| Shielded                  | No                   |
| Conductor structure       | 32 × 0.1 mm          |
| AWG                       | 24                   |
| External sheath: Material | PUR                  |
| External sheath: Color    | Black                |
| Cable diameter            | 4.5 mm ± 5%          |
| Wire cross section        | 0.25 mm <sup>2</sup> |

#### Cable

|                                 |          |
|---------------------------------|----------|
| External sheath: Shore hardness | 90 ± 5 A |
|---------------------------------|----------|

#### Cable

|                                   |                             |
|-----------------------------------|-----------------------------|
| Cable: Temperature range (mobile) | - 25 ...+ 80 °C             |
| Cable: Temperature range (fixed)  | - 40 ...+ 80 °C             |
| Shielded                          | No                          |
| Cable length                      | 500 cm                      |
| Acceleration (C-track)            | max. 10 m/s <sup>2</sup>    |
| AWG                               | 24                          |
| Bending radius (fixed)            | min. 5 × outer diameter     |
| Torsion speed                     | max. 35 cycles/min          |
| Bending radius (mobile)           | min. 10 mm × outer diameter |
| Cable type                        | 3                           |
| Cable weight                      | approx. 33 g/m              |
| Wire 1: Color                     | BN                          |
| Wire 2: Color                     | BK                          |
| Wire 3: Color                     | BU                          |
| Wire 4: Color                     | WH                          |
| Conductor structure               | 32 × 0.1 mm                 |
| Cable diameter                    | 4.5 mm ± 5%                 |
| Conductor: Material               | Copper, bare                |
| External sheath: Material         | PUR                         |
| Insulation: Material              | PP                          |
| No. of bending cycles (C-track)   | approx. 10000000 Cycles     |
| Nominal voltage                   | 300 V                       |
| No. of torsion cycles             | approx. 2000000 Cycles      |
| Paired stranding                  | No                          |
| Single wire diameter              | 0.1 mm                      |
| Cable: Test voltage               | 2.5 kV 0                    |
| Torsion stress in °               | ± 180 °/m                   |
| Total stranding                   | 4 wires strand              |
| Travel speed (C-track)            | max. 3 m/s                  |
| Traversing path (horizontal)      | max. 10 m                   |
| Wire cross section                | 0.25 mm <sup>2</sup>        |
| Wire processing                   | No                          |
| Wire diameter incl. isolation     | 1.25 mm ± 5%                |
| External sheath: Color            | Black                       |

#### Electrical data

|                   |              |
|-------------------|--------------|
| Operating voltage | 50 V AC/DC 0 |
|-------------------|--------------|

## Technical data

### Electrical data

|                               |              |
|-------------------------------|--------------|
| Nominal voltage               | 300 V        |
| Contact resistance            | max. 30 mOhm |
| Operating current per contact | max. 4 A     |

### Mechanical data

|                                 |                             |
|---------------------------------|-----------------------------|
| Head A: Degree of protection    | IP65, IP66K, IP67           |
| Head B: Degree of protection    | IP65, IP66K, IP67           |
| Bending radius (mobile)         | min. 10 mm × outer diameter |
| Bending radius (fixed)          | min. 5 × outer diameter     |
| No. of bending cycles (C-track) | approx. 10000000 Cycles     |
| Torsion speed                   | max. 35 cycles/min          |
| Torsion stress in °             | ± 180 °/m                   |
| No. of torsion cycles           | approx. 2000000 Cycles      |
| Acceleration (C-track)          | max. 10 m/s <sup>2</sup>    |
| Travel speed (C-track)          | max. 3 m/s                  |

### Environmental conditions

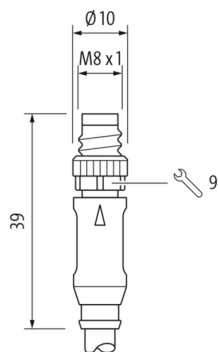
|                                  |                 |
|----------------------------------|-----------------|
| Temperature range (mobile)       | - 25 ...+ 80 °C |
| Temperature range (fixed)        | - 25 ...+ 80 °C |
| Cable: Temperature range (fixed) | - 40 ...+ 80 °C |
| Dragchain capable                | Yes             |

### Environmental conditions

|                                   |                                                                                                                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Head A: Chemical resistance       | No                                                                                                                                                                           |
| Head A: Flame resistance          | HB (UL 94)                                                                                                                                                                   |
| Head A: Oil resistance            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |
| Head A: Acid and alkali resistant | No                                                                                                                                                                           |
| Head A: Pollution degree          | 3                                                                                                                                                                            |
| Head B: Chemical resistance       | No                                                                                                                                                                           |
| Head B: Flame resistance          | HB (UL 94)                                                                                                                                                                   |
| Head B: Oil resistance            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |
| Head B: Acid and alkali resistant | No                                                                                                                                                                           |
| Head B: Pollution degree          | 3                                                                                                                                                                            |
| Cable: Chemical resistance        | Good (DIN EN 60811-404)                                                                                                                                                      |
| Cable: Flame resistance           | Conform UL 1581 §1090 (H)                                                                                                                                                    |
| Cable: Oil resistance             | Good (DIN EN 60811-404)                                                                                                                                                      |
| Cable: Silicone-free              | Yes                                                                                                                                                                          |

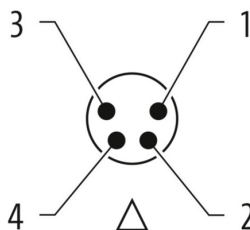
## Side A

### Technical drawing

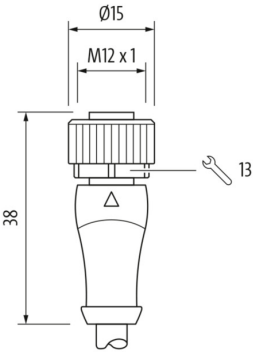


## Side A

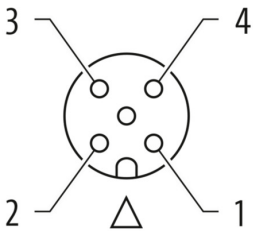
### Coding



**Side B**  
**Technical drawing**



**Coding**



**Connection diagram**

|   |    |   |
|---|----|---|
| 1 | BN | 1 |
| 2 | WH | 2 |
| 3 | BU | 3 |
| 4 | BK | 4 |