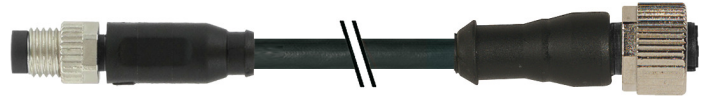


### Overview

- M8, connector, A-coded, 4-pin; PUR, 2500 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               |
| Head A: Contact layout pin 1 | BN                |
| Head A: Contact layout pin 2 | WH                |
| Head A: Contact layout pin 3 | BU                |
| Head A: Contact layout pin 4 | BK                |

#### 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                                   |
| Head B: Contact layout pin 1 | BN                                    |
| Head B: Contact layout pin 2 | WH                                    |
| Head B: Contact layout pin 3 | BU                                    |

#### Side B

|                              |    |
|------------------------------|----|
| Head B: Contact layout pin 4 | BK |
|------------------------------|----|

#### Cables

|                           |             |
|---------------------------|-------------|
| Cable length              | 2500 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 mm²    |
| Cable: Halogen free       | Yes         |

#### Cable

|                                    |                          |
|------------------------------------|--------------------------|
| External sheath: Shore hardness    | 90 ± 5 A                 |
| Cable: Temperature range (mobile)  | - 25 ...+ 80 °C          |
| Cable: Temperature range (fixed)   | - 40 ...+ 80 °C          |
| Operating voltage (only UL listed) | 30 V AC/DC               |
| Shielded                           | No                       |
| Bending radius (fixed)             | 22.5 mm                  |
| Number of wires                    | 4                        |
| Number and diameter of wires       | 4x0.25                   |
| Cable length                       | 2500 cm                  |
| Acceleration (C-track)             | max. 10 m/s²             |
| AWG                                | 24                       |
| Bending radius (fixed)             | min. 5 × outer diameter  |
| Torsion speed                      | max. 35 cycles/min       |
| Bending radius (mobile)            | min. 10 × 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%              |

**Technical data**
**Cable**

|                                 |                         |
|---------------------------------|-------------------------|
| 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 |
| Operating voltage (only UL listed) | 30 V AC/DC   |
| 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 × 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                |

**Mechanical data**

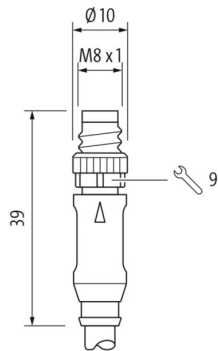
|                        |                          |
|------------------------|--------------------------|
| No. of torsion cycles  | approx. 2000000 Cycles   |
| Acceleration (C-track) | max. 10 m/s <sup>2</sup> |
| Travel speed (C-track) | max. 3 m/s               |

**Environmental conditions**

|                                   |                                                                                                                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range (mobile)        | - 25 ...+ 80 °C                                                                                                                                                              |
| Temperature range (fixed)         | - 25 ...+ 85 °C                                                                                                                                                              |
| Cable: Temperature range (fixed)  | - 40 ...+ 80 °C                                                                                                                                                              |
| Dragchain capable                 | Yes                                                                                                                                                                          |
| 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                                                                                                                                                                          |
| Cable: UV resistance              | Yes                                                                                                                                                                          |

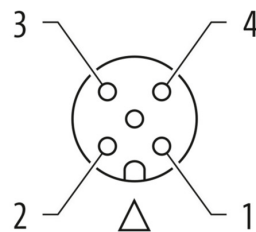
**Side A**

**Technical drawing**

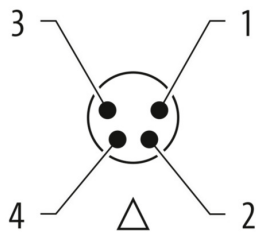


**Side B**

**Coding**



**Coding**



**Connection diagram**

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

**Side B**

**Technical drawing**

