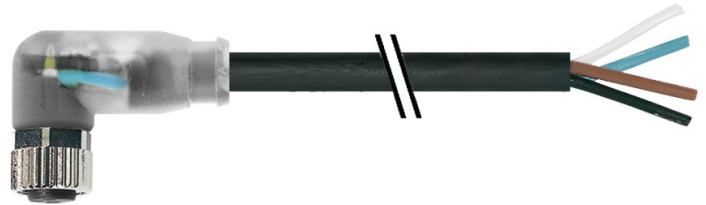


## Overview

- M8, female, A-coded; 4-poles; PUR, 300 cm, free cable end
- Dragchain capable; suitable for robotics  $\pm 180^\circ/\text{m}$
- Head A: IP65, IP66K, IP67
- Cable: good resistance against chemicals, flames, oils



## Technical data

### Side A

|                              |                                       |
|------------------------------|---------------------------------------|
| Head A: Connection           | M8                                    |
| Head A: Angle cable outlet   | 90°                                   |
| Head A: Gender               | Female                                |
| Head A: Coding               | A                                     |
| Head A: No. of poles         | 4                                     |
| Head A: LED                  | Yes                                   |
| Head A: LED switching status | PNP                                   |
| Head A: Width across flats   | AF9                                   |
| Head A: Tightening torque    | 0.4 Nm                                |
| Head A: Knurled nut material | Zinc-pressure die casting, surface Ni |
| Head A: Body color           | Transparent                           |
| Head A: Gasket material      | FKM                                   |
| 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     | Open-ended wires |
| Labeling sleeve side B | Yes              |

### Cables

|                           |                      |
|---------------------------|----------------------|
| Cable length              | 300 cm               |
| Length tolerance          | + 10 cm              |
| Stripping length          | 20 mm                |
| 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: Halogen free       | No                   |

### Cable

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

### Cable

|                                    |                          |
|------------------------------------|--------------------------|
| 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                   |
| Length tolerance                   | + 10 cm                  |
| Cable length                       | 300 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 × outer diameter |
| Cable type                         | 3                        |
| Cable weight                       | approx. 33 g/m           |
| 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                   |
| 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                    |

### Technical data

#### Electrical data

|                                    |                    |
|------------------------------------|--------------------|
| Operating voltage                  | 24 V DC $\pm$ 25 % |
| 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               |
| Bending radius (mobile)         | min. 10 $\times$ outer diameter |
| Bending radius (fixed)          | min. 5 $\times$ outer diameter  |
| No. of bending cycles (C-track) | approx. 10000000 Cycles         |
| Torsion speed                   | max. 35 cycles/min              |
| Torsion stress in °             | $\pm$ 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 |
|----------------------------|-----------------|

#### Environmental conditions

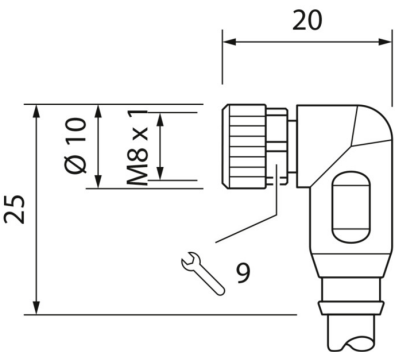
|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| Temperature range (fixed)         | - 25 ...+ 85 °C                                     |
| Cable: Temperature range (fixed)  | - 40 ...+ 80 °C                                     |
| Dragchain capable                 | Yes                                                 |
| Head A: Chemical resistance       | No                                                  |
| Head A: Flame resistance          | HB (UL 94)                                          |
| Head A: Oil resistance            | ASTM 1 oil, mineral oils, limited to hydraulic oils |
| Head A: Acid and alkali resistant | No                                                  |
| Head A: Pollution degree          | 3                                                   |
| Cable: Chemical resistance        | Good (DIN EN 60811-404)                             |
| Cable: Flame resistance           | Conform UL 1581 §1090 (H), CSA FT2, IEC 60332-2-2   |
| Cable: Oil resistance             | Good (DIN EN 60811-404)                             |
| Cable: Silicone-free              | Yes                                                 |
| Cable: UV resistance              | Yes                                                 |

#### Commercial data

|        |          |
|--------|----------|
| Eclass | 27060311 |
|--------|----------|

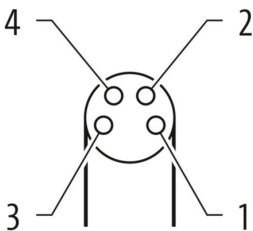
### Side A

#### Technical drawing



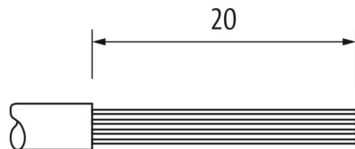
### Side A

#### Coding



**Side B**

**Technical drawing**



**Connection diagram**

