

## Overview

- M8, male, A-coded, 3-poles; PUR, 2000 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
- 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         | 3                 |
| 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     | Open-ended wires |
| Labeling sleeve side B | Yes              |

### Cables

|                           |                          |
|---------------------------|--------------------------|
| Cable length              | 2000 cm                  |
| Length tolerance          | $\pm 30$ cm              |
| Stripping length          | 20 mm                    |
| Shielded                  | No                       |
| Conductor structure       | $32 \times 0.1$ mm       |
| AWG                       | 24                       |
| External sheath: Material | PUR                      |
| External sheath: Color    | Black                    |
| Cable diameter            | $4.1 \text{ mm} \pm 5\%$ |
| Wire cross section        | $0.25 \text{ mm}^2$      |

### 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)             | 20.5 mm         |
| Number of wires                    | 3               |
| Number and diameter of wires       | $3 \times 0.25$ |
| Length tolerance                   | $\pm 30$ cm     |
| Cable length                       | 2000 cm         |

### Cable

|                                 |                           |
|---------------------------------|---------------------------|
| 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. 26.4 g/m          |
| Conductor structure             | $32 \times 0.1$ mm        |
| Cable diameter                  | $4.1 \text{ mm} \pm 5\%$  |
| 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 °             | $\pm 180^\circ/\text{m}$  |
| Total stranding                 | 3 wires strand            |
| Travel speed (C-track)          | max. 3 m/s                |
| Traversing path (horizontal)    | max. 10 m                 |
| Wire cross section              | $0.25 \text{ mm}^2$       |
| Wire processing                 | No                        |
| Wire diameter incl. isolation   | $1.25 \text{ mm} \pm 5\%$ |
| External sheath: Color          | Black                     |

### Electrical data

|                                    |                        |
|------------------------------------|------------------------|
| Operating voltage                  | max. 50 V AC / 60 V DC |
| 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 × outer diameter |
| Bending radius (fixed)       | min. 5 × outer diameter  |

**Technical data**

**Mechanical data**

|                                 |                          |
|---------------------------------|--------------------------|
| 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             |
| Head A: Chemical resistance      | No              |

**Environmental conditions**

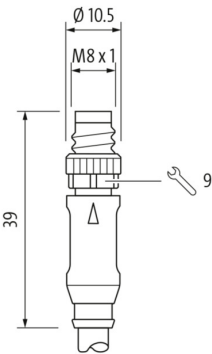
|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| Head A: Flame resistance          | HB (UL 94)                                          |
| Head A: Oil resistance            | 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                                                 |

**Commercial data**

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

**Side A**

**Technical drawing**

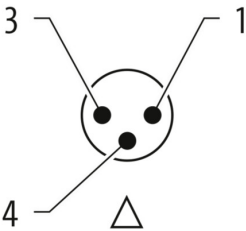


**Side B**

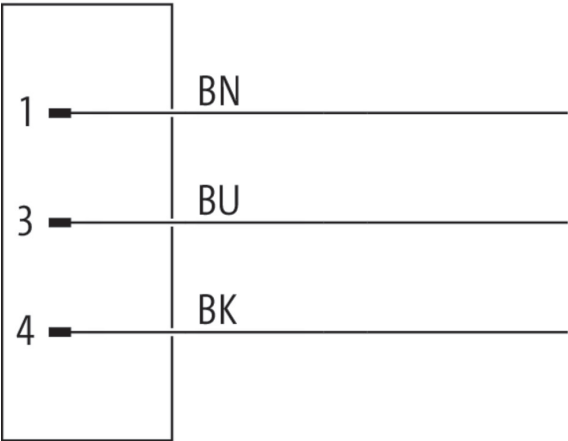
**Technical drawing**



**Coding**



**Connection diagram**



**Dimension drawing**

