

### Overview

- M8, male, A-coded, 3-poles; PUR, 500 cm; M8, female, A-coded, 3-poles
- Dragchain capable; suitable for robotics  $\pm 360^\circ/\text{m}$
- Head A: IP65, IP66K, IP67; Head B: 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   | SW9  |
| Head A: Tightening torque    | 0.4 Nm   |
| Head A: Knurled nut material | Brass, Ni plated, surface Safe-Cover silvergray matt |
| Head A: Body color           | Black  |
| Labeling sleeve side A       | Yes  |

#### Side B

|                              |  |
|------------------------------|--|
| Head B: Connection           | M8   |
| Head B: Angle cable outlet   | 0°   |
| Head B: Gender               | Female   |
| Head B: Coding               | A  |
| Head B: No. of poles         | 3  |
| Head B: LED                  | No   |
| Head B: Width across flats   | SW9  |
| Head B: Tightening torque    | 0.4 Nm   |
| Head B: Knurled nut material | Zinc-pressure die casting, Ni plated, surface Safe-Cover silvergray matt |
| Head B: Body color           | Black  |
| Labeling sleeve side B       | Yes  |

#### Cables

|                           |                      |
|---------------------------|----------------------|
| Cable length              | 500 cm               |
| Length tolerance          | $\pm 7.5$ cm         |
| Shielded                  | No                   |
| Conductor structure       | 42 $\times$ 0.1 mm   |
| AWG                       | 22                   |
| External sheath: Material | PUR                  |
| External sheath: Color    | Yellow               |
| Cable diameter            | 4.3 mm $\pm$ 5%      |
| Wire cross section        | 0.34 mm <sup>2</sup> |

#### Electrical data

|                                    |                        |
|------------------------------------|------------------------|
| Operating voltage                  | max. 50 V AC / 60 V DC |
| Operating voltage (only UL listed) | 30 V AC/DC             |

#### 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 $\times$ outer diameter |
| Bending radius (fixed)          | min. 5 $\times$ outer diameter  |
| No. of bending cycles (C-track) | approx. 1000000 Cycles          |
| Torsion speed                   | max. 35 cycles/min              |
| Torsion stress in °             | $\pm 360^\circ/\text{m}$        |
| No. of torsion cycles           | approx. 1000000 Cycles          |
| Acceleration (C-track)          | max. 5 m/s <sup>2</sup>         |
| Travel speed (C-track)          | max. 3.3 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  |
| 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   |
| Head B: Flame resistance          | HB (UL 94)  |
| Head B: Oil resistance            | ASTM 1 oil, mineral oils, limited to hydraulic oils |
| Head B: Acid and alkali resistant | No  |
| Head B: Pollution degree          | 3   |
| Cable: Chemical resistance        | Good (DIN EN 60811-404)                             |

## Technical data

### Environmental conditions

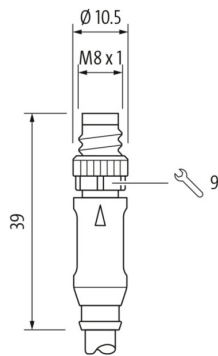
|                         |  |
|-------------------------|--|
| Cable: Flame resistance | Conform UL 1581 §1090 (H); CSA FT2;<br>IEC 60332-2-2 |
| Cable: Oil resistance   | Good (DIN EN 60811-404)                              |

### Environmental conditions

|                      |     |
|----------------------|-----|
| Cable: Silicone-free | Yes |
|----------------------|-----|

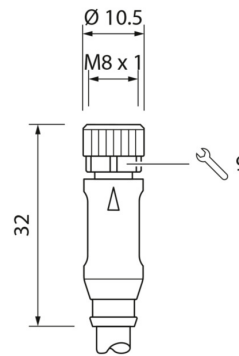
## Side A

### Technical drawing

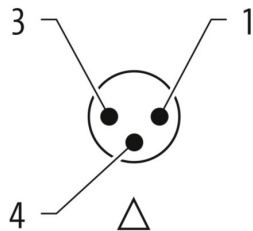


## Side B

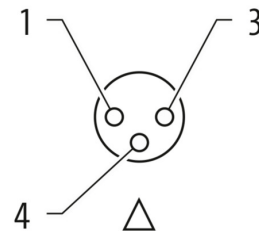
### Technical drawing



## Coding



## Coding



## Connection diagram

