

### Overview

- M12, male, A-coded, 8-poles; PUR, 500 cm, shielded; M12, female, A-coded, 8-poles
- Dragchain capable
- 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           | M12                                   |
| Head A: Angle cable outlet   | 0°                                    |
| Head A: Gender               | Male                                  |
| Head A: Coding               | A                                     |
| Head A: No. of poles         | 8                                     |
| Head A: LED                  | No                                    |
| Head A: Width across flats   | SW13                                  |
| Head A: Tightening torque    | 0.6 Nm                                |
| Head A: Knurled nut material | Zinc-pressure die casting, 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         | 8                                     |
| Head B: LED                  | No                                    |
| Head B: Width across flats   | SW13                                  |
| Head B: Tightening torque    | 0.6 Nm                                |
| Head B: Knurled nut material | Zinc-pressure die casting, surface Ni |
| Head B: Body color           | Black                                 |
| Labeling sleeve side B       | Yes                                   |

#### Cables

|                           |             |
|---------------------------|-------------|
| Cable length              | 500 cm      |
| Length tolerance          | ± 7.5 cm    |
| Shielded                  | Yes         |
| Conductor structure       | 32 × 0.1 mm |
| AWG                       | 24          |
| External sheath: Material | PUR         |
| External sheath: Color    | Black       |
| Cable diameter            | 7 mm ± 5%   |
| Wire cross section        | 0.25 mm²    |

#### Electrical data

|                                    |                 |
|------------------------------------|-----------------|
| Operating voltage                  | max. 30 V AC/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. 2 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. 5000000 Cycles   |
| Torsion speed                   | max. 35 cycles/min       |
| Torsion stress in °             | ± 30 °/m                 |
| No. of torsion cycles           | approx. 2000000 Cycles   |
| Acceleration (C-track)          | max. 5 m/s²              |
| 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: Chemical resistance       | No  |
| 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   |

## Technical data

### Environmental conditions

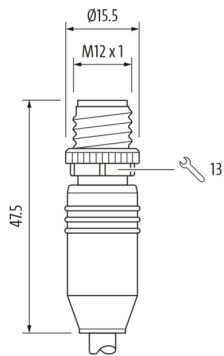
|                            |   |
|----------------------------|---|
| Cable: Chemical resistance | Good (DIN EN 60811-404)                           |
| Cable: Flame resistance    | Conform UL 1581 §1090 (H); CSA FT2; IEC 60332-2-2 |

### Environmental conditions

|                       |                         |
|-----------------------|-------------------------|
| Cable: Oil resistance | Good (DIN EN 60811-404) |
| Cable: Silicone-free  | Yes                     |

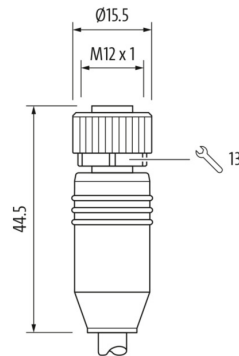
## Side A

### Technical drawing

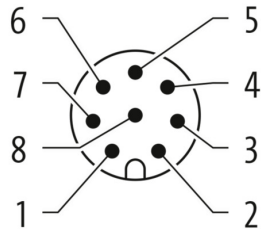


## Side B

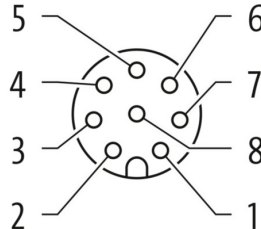
### Technical drawing



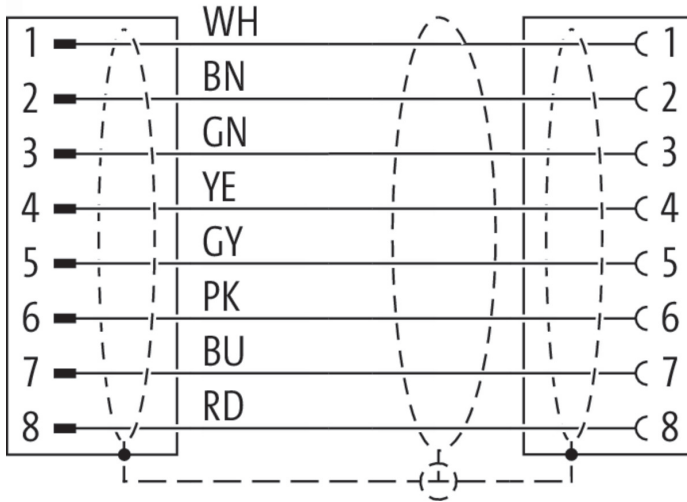
## Coding



## Coding



Connection diagram



Dimension drawing

