

### Overview

- M12, male, A-coded, 8-poles; PUR, 200 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                       |                                       | Side B                             |                      |
|------------------------------|---------------------------------------|------------------------------------|----------------------|
| Head A: Connection           | M12                                   | Head B: Gasket material            | FKM                  |
| Head A: Angle cable outlet   | 0°                                    | Labeling sleeve side B             | Yes                  |
| Head A: Gender               | Male                                  | Head B: Contact layout pin 1       | WH                   |
| Head A: Coding               | A                                     | Head B: Contact layout pin 2       | BN                   |
| Head A: No. of poles         | 8                                     | Head B: Contact layout pin 3       | GN                   |
| Head A: LED                  | No                                    | Head B: Contact layout pin 4       | YE                   |
| Head A: Width across flats   | AF13                                  | Head B: Contact layout pin 5       | GY                   |
| Head A: Tightening torque    | 0.6 Nm                                | Head B: Contact layout pin 6       | PK                   |
| Head A: Knurled nut material | Zinc-pressure die casting, surface Ni | Head B: Contact layout pin 7       | BU                   |
| Head A: Body color           | Black                                 | Head B: Contact layout pin 8       | RD                   |
| Labeling sleeve side A       | Yes                                   | <b>Cables</b>                      |                      |
| Head A: Contact layout pin 1 | WH                                    | Cable length                       | 200 cm               |
| Head A: Contact layout pin 2 | BN                                    | Length tolerance                   | + 10 cm              |
| Head A: Contact layout pin 3 | GN                                    | Shielded                           | Yes                  |
| Head A: Contact layout pin 4 | YE                                    | Conductor structure                | 32 × 0.1 mm          |
| Head A: Contact layout pin 5 | GY                                    | AWG                                | 24                   |
| Head A: Contact layout pin 6 | PK                                    | External sheath: Material          | PUR                  |
| Head A: Contact layout pin 7 | BU                                    | External sheath: Color             | Black                |
| Head A: Contact layout pin 8 | RD                                    | Cable diameter                     | 7 mm ± 5%            |
| <b>Side B</b>                |                                       | Wire cross section                 | 0.25 mm <sup>2</sup> |
| Head B: Connection           | M12                                   | Cable: Halogen free                | Yes                  |
| Head B: Angle cable outlet   | 90°                                   | <b>Cable</b>                       |                      |
| Head B: Gender               | Female                                | Cable: Temperature range (mobile)  | - 25 ...+ 80 °C      |
| Head B: Coding               | A                                     | Cable: Temperature range (fixed)   | - 40 ...+ 80 °C      |
| Head B: No. of poles         | 8                                     | Operating voltage (only UL listed) | 30 V AC/DC           |
| Head B: LED                  | No                                    | Shielded                           | Yes                  |
| Head B: Width across flats   | AF13                                  | Shielding: Covering                | approx. 80 %         |
| Head B: Tightening torque    | 0.6 Nm                                | Bending radius (fixed)             | 35 mm                |
| Head B: Knurled nut material | Zinc-pressure die casting, surface Ni | Number of wires                    | 8                    |
| Head B: Body color           | Black                                 |                                    |                      |

**Technical data**
**Cable**

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Number and diameter of wires    | 8x0.25                                  |
| Length tolerance                | + 10 cm                                 |
| Cable length                    | 200 cm                                  |
| Acceleration (C-track)          | max. 5 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. 66 g/m                          |
| Conductor structure             | 32 × 0.1 mm                             |
| Cable diameter                  | 7 mm ± 5%                               |
| Conductor: Material             | Copper, bare                            |
| External sheath: Material       | PUR                                     |
| Insulation: Material            | PP                                      |
| Shielding: Material             | Copper, tinned                          |
| No. of bending cycles (C-track) | approx. 5000000 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 kV AC core-core ; 2 kV AC core-shield |
| Torsion stress in °             | ± 30 °/m                                |
| Total stranding                 | 8 wires strand around core-filler       |
| Travel speed (C-track)          | max. 3.3 m/s                            |
| Traversing path (horizontal)    | max. 5 m                                |
| Wire cross section              | 0.25 mm <sup>2</sup>                    |
| Wire processing                 | No                                      |
| Wire diameter incl. isolation   | 1.2 mm ± 5%                             |
| External sheath: Color          | Black                                   |

**Electrical data**

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

**Mechanical data**

|                                 |                          |
|---------------------------------|--------------------------|
| 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/s <sup>2</sup>  |
| Travel speed (C-track)          | max. 3.3 m/s             |

**Environmental conditions**

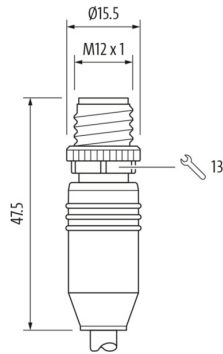
|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| Temperature range (mobile)        | - 25 ...+ 80 °C                                     |
| Temperature range (fixed)         | - 25 ...+ 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                                                   |
| 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                                                   |
| 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 |
|--------|----------|

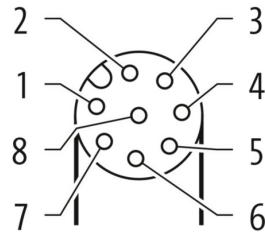
## Side A

### Technical drawing

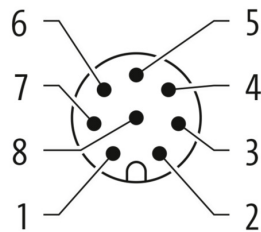


## Side B

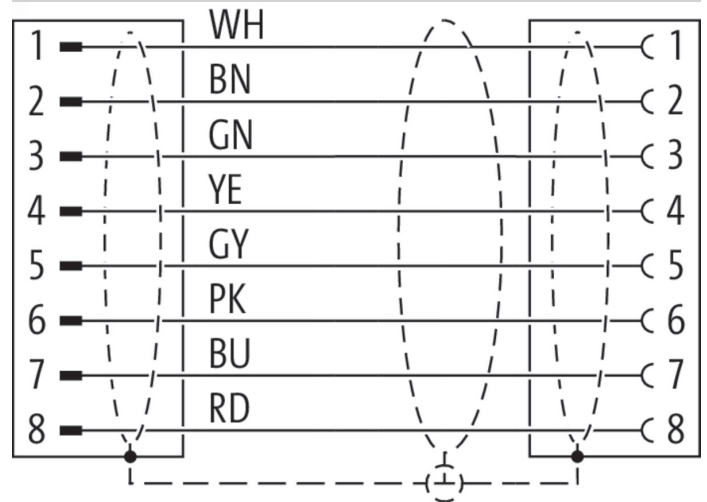
### Coding



## Coding

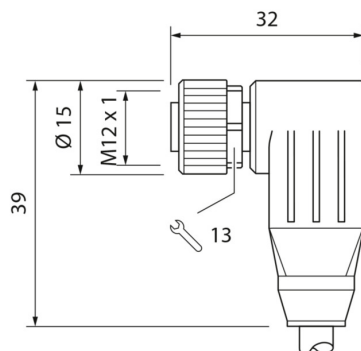


## Connection diagram



## Side B

### Technical drawing



## Dimension drawing

