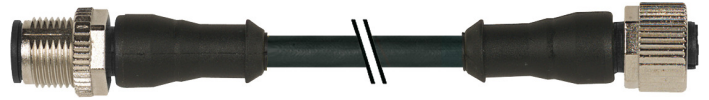


## Overview

- M12, connector, A-coded, 8-pin; PUR, 300 cm, M12, female, A-coded, 8-pin
- Dragchain capable
- Head A: IP65, IP66K, IP67; Head B: IP65, IP66K, IP67
- Cable: good resistance against chemicals and 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   | AF13                                  |
| 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                                   |
| Head A: Contact layout pin 1 | WH                                    |
| Head A: Contact layout pin 2 | BN                                    |
| Head A: Contact layout pin 3 | GN                                    |
| Head A: Contact layout pin 4 | YE                                    |
| Head A: Contact layout pin 5 | GY                                    |
| Head A: Contact layout pin 6 | PK                                    |
| Head A: Contact layout pin 7 | BU                                    |
| Head A: Contact layout pin 8 | RD                                    |

### 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   | AF13                                  |
| Head B: Tightening torque    | 0.6 Nm                                |
| Head B: Knurled nut material | Zinc-pressure die casting, surface Ni |
| Head B: Body color           | Black                                 |
| Head B: Gasket material      | FKM                                   |

### Side B

|                              |    |
|------------------------------|----|
| Labeling sleeve side B       | No |
| Head B: Contact layout pin 1 | WH |
| Head B: Contact layout pin 2 | BN |
| Head B: Contact layout pin 3 | GN |
| Head B: Contact layout pin 4 | YE |
| Head B: Contact layout pin 5 | GY |
| Head B: Contact layout pin 6 | PK |
| Head B: Contact layout pin 7 | BU |
| Head B: Contact layout pin 8 | RD |

### Cables

|                           |             |
|---------------------------|-------------|
| Cable length              | 300 cm      |
| Shielded                  | No          |
| Conductor structure       | 42 × 0.1 mm |
| AWG                       | 24          |
| External sheath: Material | PUR         |
| External sheath: Color    | Black       |
| Cable diameter            | 5.8 mm ± 5% |
| Wire cross section        | 0.25 mm²    |
| Cable: Halogen free       | Yes         |

### Cable

|                                    |                    |
|------------------------------------|--------------------|
| External sheath: Shore hardness    | 90 ± 5 A           |
| Cable: Temperature range (mobile)  | min. 25 ...+ 80 °C |
| Cable: Temperature range (fixed)   | - 40 ...+ 80 °C    |
| Operating voltage (only UL listed) | 30 V AC/DC         |
| Shielded                           | No                 |
| Bending radius (fixed)             | 58 mm              |
| Number of wires                    | 8                  |
| Number and diameter of wires       | 8x0.25             |

**Technical data**
**Cable**

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Cable length                    | 300 cm                            |
| Acceleration (C-track)          | max. 10 m/s <sup>2</sup>          |
| AWG                             | 24                                |
| Bending radius (fixed)          | min. 5 × outer diameter           |
| Bending radius (mobile)         | min. 10 × outer diameter          |
| Cable type                      | 3                                 |
| Cable weight                    | approx. 58.3 g/m                  |
| Wire 1: Color                   | WH                                |
| Wire 2: Color                   | BN                                |
| Wire 3: Color                   | GN                                |
| Wire 4: Color                   | YE                                |
| Wire 5: Color                   | GY                                |
| Wire 6: Color                   | PK                                |
| Wire 7: Color                   | BU                                |
| Wire 8: Color                   | RD                                |
| Conductor structure             | 42 × 0.1 mm                       |
| Cable diameter                  | 5.8 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 0                          |
| Torsion stress in °             | ± 180 °/m                         |
| Total stranding                 | 8 wires strand around core-filler |
| 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   | 1.2 mm ± 5%                       |
| External sheath: Color          | Black                             |

**Electrical data**

|                                    |                   |
|------------------------------------|-------------------|
| Operating voltage                  | max. 30 V AC/DC 0 |
| 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**

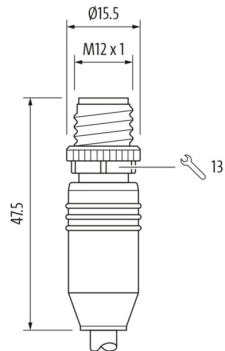
|                                 |                          |
|---------------------------------|--------------------------|
| Head A: Degree of protection    | IP65, IP66K, IP67        |
| Head B: Degree of protection    | IP65, IP66K, IP67        |
| Bending radius (mobile)         | min. 10 × outer diameter |
| Bending radius (fixed)          | min. 5 × outer diameter  |
| No. of bending cycles (C-track) | approx. 10000000 Cycles  |
| 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 ...+ 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            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |
| 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            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |
| 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)                                                                                                                                                    |
| Cable: Oil resistance             | Good (DIN EN 60811-404)                                                                                                                                                      |
| Cable: Silicone-free              | Yes                                                                                                                                                                          |
| Cable: UV resistance              | Yes                                                                                                                                                                          |

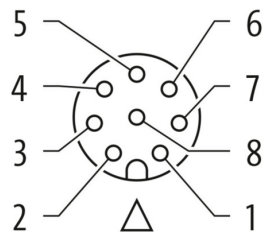
## Side A

### Technical drawing

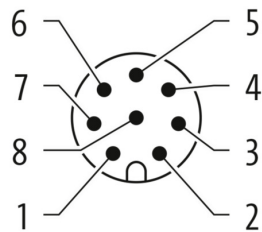


## Side B

### Coding



## Coding

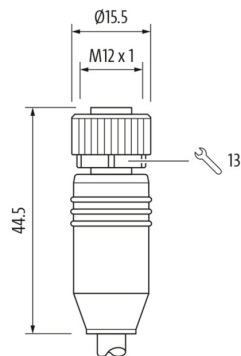


## Connection diagram

|   |    |   |
|---|----|---|
| 1 | WH | 1 |
| 2 | BN | 2 |
| 3 | GN | 3 |
| 4 | YE | 4 |
| 5 | GY | 5 |
| 6 | PK | 6 |
| 7 | BU | 7 |
| 8 | RD | 8 |

## Side B

### Technical drawing



## Dimension drawing

