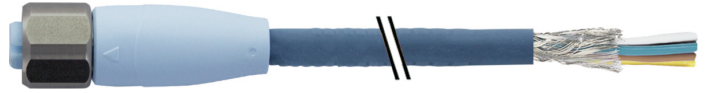


**Overview**

- M12, female, A-coded; 3-poles; TPE-S, 300 cm, shielded, free cable end
- Dragchain capable; suitable for robotics  $\pm 180^\circ/\text{m}$ ; suitable for food & beverage
- Head A: IP65, IP68, IP69K
- ECOLAB tested
- Halogen free



**Technical data**

**Side A**

|                              |                       |
|------------------------------|-----------------------|
| Head A: Connection           | M12                   |
| Head A: Angle cable outlet   | 0°                    |
| Head A: Gender               | Female                |
| Head A: Coding               | A                     |
| Head A: No. of poles         | 3                     |
| Head A: LED                  | No                    |
| Head A: Width across flats   | AF14                  |
| Head A: Tightening torque    | 0.6 Nm                |
| Head A: Knurled nut material | Stainless steel (V4A) |
| Head A: Body color           | Blue                  |
| Head A: Gasket material      | EPDM                  |
| Labeling sleeve side A       | No                    |

**Side B**

|                        |                  |
|------------------------|------------------|
| Head B: Connection     | Open-ended wires |
| Labeling sleeve side B | No               |

**Cables**

|                           |                      |
|---------------------------|----------------------|
| Cable length              | 300 cm               |
| Length tolerance          | + 10 cm              |
| Stripping length          | 20 mm                |
| Shielded                  | Yes                  |
| Conductor structure       | 42 × 0.1 mm          |
| AWG                       | 22                   |
| External sheath: Material | TPE-S                |
| External sheath: Color    | Blue                 |
| Cable diameter            | 5.2 mm ± 5%          |
| Wire cross section        | 0.34 mm <sup>2</sup> |

**Cable**

|                                    |                  |
|------------------------------------|------------------|
| Cable: Temperature range (mobile)  | - 25 ...+ 105 °C |
| Cable: Temperature range (fixed)   | - 40 ...+ 105 °C |
| Operating voltage (only UL listed) | 30 V AC/DC       |
| Shielded                           | Yes              |
| Shielding: Covering                | approx. 85 %     |
| Bending radius (fixed)             | 26 mm            |
| Number of wires                    | 3                |

**Cable**

|                                 |                          |
|---------------------------------|--------------------------|
| Number and diameter of wires    | 3x0.34                   |
| Length tolerance                | + 10 cm                  |
| Cable length                    | 300 cm                   |
| Acceleration (C-track)          | max. 10 m/s <sup>2</sup> |
| AWG                             | 22                       |
| Bending radius (fixed)          | min. 5 × outer diameter  |
| Torsion speed                   | max. 35 cycles/min       |
| Bending radius (mobile)         | min. 10 × outer diameter |
| Cable weight                    | approx. 37.4 g/m         |
| Conductor structure             | 42 × 0.1 mm              |
| Cable diameter                  | 5.2 mm ± 5%              |
| Conductor: Material             | Copper, bare             |
| External sheath: Material       | TPE-S                    |
| Insulation: Material            | PP                       |
| Shielding: Material             | Copper, tinned           |
| No. of bending cycles (C-track) | approx. 4000000 Cycles   |
| Nominal voltage                 | 300 V AC                 |
| No. of torsion cycles           | approx. 2000000 Cycles   |
| Paired stranding                | No                       |
| Single wire diameter            | 0.1 mm                   |
| Cable: Test voltage             | 3 kV                     |
| Torsion stress in °             | ± 180 °/m                |
| Total stranding                 | 3 wires strand           |
| Travel speed (C-track)          | max. 3 m/s               |
| Traversing path (horizontal)    | max. 10 m                |
| Wire cross section              | 0.34 mm <sup>2</sup>     |
| Wire processing                 | No                       |
| Wire diameter incl. isolation   | 1.27 mm ± 5%             |
| External sheath: Color          | Blue                     |

**Electrical data**

|                                    |                 |
|------------------------------------|-----------------|
| Operating voltage                  | max. 60 V AC/DC |
| Operating voltage (only UL listed) | 30 V AC/DC      |
| Nominal voltage                    | 300 V AC        |
| Contact resistance                 | max. 30 mOhm    |

**Technical data**

**Electrical data**

Operating current per contact max. 4 A

**Mechanical data**

Head A: Degree of protection IP65, IP68, IP69K  
 Bending radius (mobile) min. 10 × outer diameter  
 Bending radius (fixed) min. 5 × outer diameter  
 No. of bending cycles (C-track) approx. 4000000 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 ...+ 105 °C  
 Temperature range (fixed) - 40 ...+ 105 °C  
 Cable: Temperature range (fixed) - 40 ...+ 105 °C

**Environmental conditions**

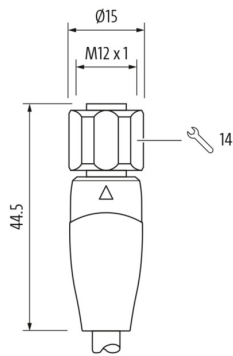
Dragchain capable Yes  
 Head A: Chemical resistance Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.  
 Head A: Flame resistance HB (UL 94)  
 Head A: Oil resistance ASTM 1 oil, mineral oils, limited to hydraulic oils  
 Head A: Acid and alkali resistant ECOLAB tested  
 Head A: Pollution degree 3  
 Cable: Chemical resistance ECOLAB material resistance test passed  
 Cable: Acid and alkali resistant Good (FDA 21 178.3620, 178.3297, 177.1520, EU 10/2011)  
 Cable: Silicone-free Yes

**Commercial data**

Eclass 27060311

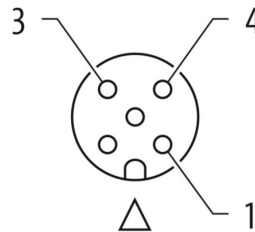
**Side A**

**Technical drawing**



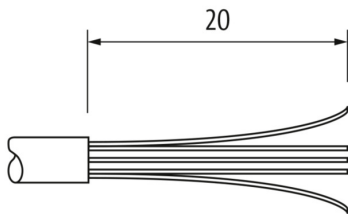
**Side A**

**Coding**

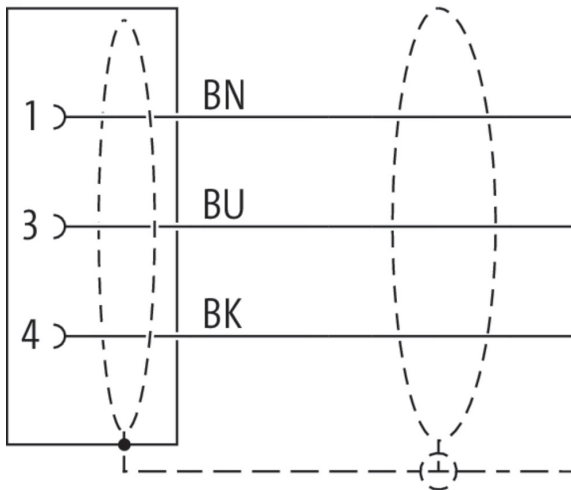


**Side B**

**Technical drawing**



**Connection diagram**



**Dimension drawing**

