

**Vue d'ensemble**

- M12, female, A-coded; 4-poles; TPE-S, 1500 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



**Caractéristiques techniques**

| Side A                             |                       | Cable                              |                          |
|------------------------------------|-----------------------|------------------------------------|--------------------------|
| Head A: Connection                 | M12                   | Number and diameter of wires       | 4x0,34                   |
| Head A: Angle cable outlet         | 0°                    | Length tolerance                   | $\pm 22,5$ cm            |
| Head A: Gender                     | Female                | Cable length                       | 1500 cm                  |
| Head A: Coding                     | A                     | Acceleration (C-track)             | max. 10 m/s <sup>2</sup> |
| Head A: No. of poles               | 4                     | AWG                                | 22                       |
| Head A: LED                        | No                    | Bending radius (fixed)             | min. 5 × outer diameter  |
| Head A: Width across flats         | AF14                  | Torsion speed                      | max. 35 cycles/min       |
| Head A: Tightening torque          | 0,6 Nm                | Bending radius (mobile)            | min. 10 × outer diameter |
| Head A: Knurled nut material       | Stainless steel (V4A) | Cable weight                       | approx. 45,1 g/m         |
| Head A: Body color                 | Blue                  | Conductor structure                | 42 × 0,1 mm              |
| Head A: Gasket material            | EPDM                  | Cable diameter                     | 5,6 mm $\pm 5\%$         |
| Labeling sleeve side A             | No                    | Conductor: Material                | Copper, bare             |
| Side B                             |                       | External sheath: Material          | TPE-S                    |
| Head B: Connection                 | Open-ended wires      | Insulation: Material               | PP                       |
| Labeling sleeve side B             | No                    | Shielding: Material                | Copper, tinned           |
| Cables                             |                       | No. of bending cycles (C-track)    | approx. 4000000 Cycles   |
| Cable length                       | 1500 cm               | Nominal voltage                    | 300 V AC                 |
| Length tolerance                   | $\pm 22,5$ cm         | No. of torsion cycles              | approx. 2000000 Cycles   |
| Stripping length                   | 20 mm                 | Paired stranding                   | No                       |
| Shielded                           | Oui                   | Single wire diameter               | 0,1 mm                   |
| Conductor structure                | 42 × 0,1 mm           | Cable: Test voltage                | 3 kV                     |
| AWG                                | 22                    | Torsion stress in °                | $\pm 180^\circ/\text{m}$ |
| External sheath: Material          | TPE-S                 | Total stranding                    | 4 wires strand           |
| External sheath: Color             | Blue                  | Travel speed (C-track)             | max. 3 m/s               |
| Cable diameter                     | 5,6 mm $\pm 5\%$      | Traversing path (horizontal)       | max. 10 m                |
| Wire cross section                 | 0,34 mm <sup>2</sup>  | Wire cross section                 | 0,34 mm <sup>2</sup>     |
| Cable                              |                       | Wire processing                    | No                       |
| Cable: Temperature range (mobile)  | - 25 ...+ 105 °C      | Wire diameter incl. isolation      | 1,27 mm $\pm 5\%$        |
| Cable: Temperature range (fixed)   | - 40 ...+ 105 °C      | External sheath: Color             | Blue                     |
| Operating voltage (only UL listed) | 30 V AC/DC            | Données électriques                |                          |
| Shielded                           | Oui                   | Operating voltage                  | max. 60 V AC/DC          |
| Shielding: Covering                | approx. 85 %          | Operating voltage (only UL listed) | 30 V AC/DC               |
| Bending radius (fixed)             | 28 mm                 | Nominal voltage                    | 300 V AC                 |
| Number of wires                    | 4                     | Contact resistance                 | max. 30 mOhm             |

**Caractéristiques techniques**

**Données électriques**

Operating current per contact max. 4 A

**Données mécaniques**

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

**Conditions ambiantes**

Temperature range (mobile) - 25 ...+ 105 °C  
 Temperature range (fixed) - 40 ...+ 105 °C  
 Cable: Temperature range (fixed) - 40 ...+ 105 °C

**Conditions ambiantes**

Dragchain capable Oui  
 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 Oui

**Commercial data**

Eclass 27060311

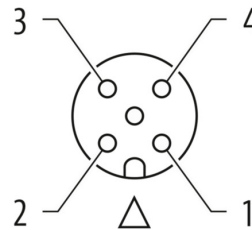
**Side A**

**Technical drawing**



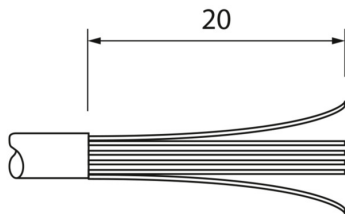
**Side A**

**Coding**

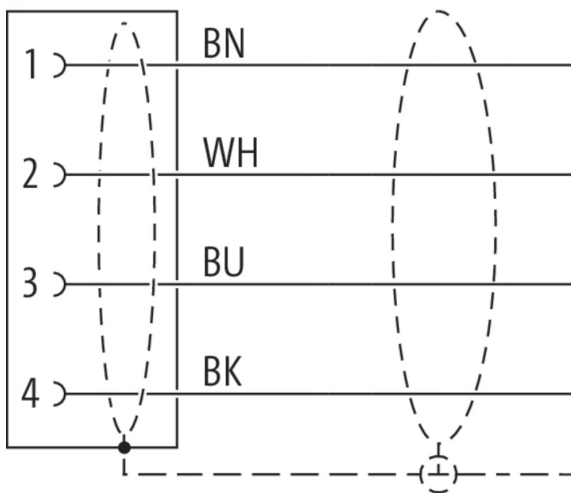


**Side B**

**Technical drawing**



**Schéma de raccordement**



**Dessin d'encombrement**

