

**Vue d'ensemble**

- M12, male, A-coded; 5-poles; TPE-S, 1000 cm, shielded, free cable end
- Dragchain capable; suitable for robotics  $\pm 180$  °/m; suitable for food & beverage
- Head A: IP65, IP68, IP69K
- ECOLAB tested
- Halogen free


**Caractéristiques techniques**
**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         | 5                     |
| 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                  |
| Labeling sleeve side A       | No                    |

**Side B**

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

**Cables**

|                           |                      |
|---------------------------|----------------------|
| Cable length              | 1000 cm              |
| Length tolerance          | $\pm 15$ cm          |
| Stripping length          | 20 mm                |
| Shielded                  | Oui                  |
| Conductor structure       | 42 x 0,1 mm          |
| AWG                       | 22                   |
| External sheath: Material | TPE-S                |
| External sheath: Color    | Blue                 |
| Cable diameter            | 5,9 mm $\pm 5\%$     |
| 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                           | Oui              |
| Shielding: Covering                | approx. 85 %     |
| Bending radius (fixed)             | 29,5 mm          |
| Number of wires                    | 5                |
| Number and diameter of wires       | 5x0,34           |

**Cable**

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Length tolerance                | $\pm 15$ cm                       |
| Cable length                    | 1000 cm                           |
| Acceleration (C-track)          | max. 10 m/s <sup>2</sup>          |
| AWG                             | 22                                |
| Bending radius (fixed)          | min. 5 x outer diameter           |
| Torsion speed                   | max. 35 cycles/min                |
| Bending radius (mobile)         | min. 10 x outer diameter          |
| Cable weight                    | approx. 51,7 g/m                  |
| Conductor structure             | 42 x 0,1 mm                       |
| Cable diameter                  | 5,9 mm $\pm 5\%$                  |
| 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 °             | $\pm 180$ °/m                     |
| Total stranding                 | 5 wires strand around core-filler |
| 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 $\pm 5\%$                 |
| External sheath: Color          | Blue                              |

**Données électriques**

|                                    |                 |
|------------------------------------|-----------------|
| 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    |
| Operating current per contact      | max. 4 A        |

**Caractéristiques techniques**

**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**

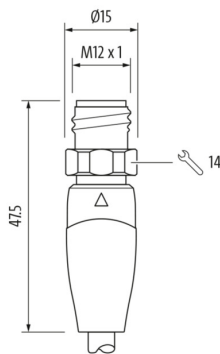
|                                   |   |
|-----------------------------------|---|
| Dragchain capable                 | Oui   |
| Head A: Chemical resistance       | Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application. |
| 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 |
|--------|----------|

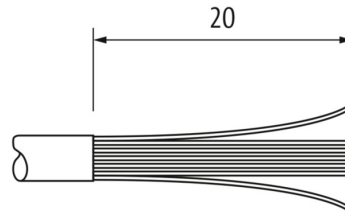
**Side A**

**Technical drawing**

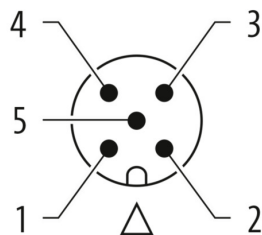


**Side B**

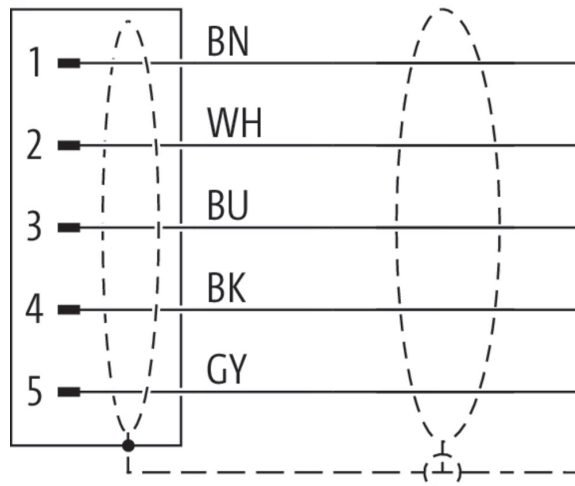
**Technical drawing**



**Coding**



**Schéma de raccordement**



Dessin d'encombrement

