

**Overview**

- M12, male, L-coded; 5-poles; PUR, 100 cm, free cable end
- Dragchain capable; suitable for robotics  $\pm 180^\circ/\text{m}$
- Head A: IP65, IP67
- Cable: good resistance against chemicals, flames, oils
- Halogen free



**Technical data**

**Side A**

|                              |                                       |
|------------------------------|---------------------------------------|
| Head A: Connection           | M12                                   |
| Head A: Angle cable outlet   | 0°                                    |
| Head A: Gender               | Male                                  |
| Head A: Coding               | L                                     |
| Head A: No. of poles         | 5                                     |
| Head A: LED                  | No                                    |
| Head A: Width across flats   | AF17                                  |
| 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                                   |

**Side B**

|                        |                  |
|------------------------|------------------|
| Head B: Connection     | Open-ended wires |
| Labeling sleeve side B | Yes              |

**Cables**

|                           |                     |
|---------------------------|---------------------|
| Cable length              | 100 cm              |
| Length tolerance          | + 5 cm              |
| Stripping length          | 100 mm              |
| Shielded                  | No                  |
| Conductor structure       | 84 × 0.15 mm        |
| AWG                       | 16                  |
| External sheath: Material | PUR                 |
| External sheath: Color    | Black               |
| Cable diameter            | 8.7 mm ± 5%         |
| Wire cross section        | 1.5 mm <sup>2</sup> |

**Electrical data**

|                               |              |
|-------------------------------|--------------|
| Operating voltage             | max. 63 V DC |
| Nominal voltage               | 1000 V AC    |
| Contact resistance            | max. 30 mOhm |
| Operating current per contact | max. 12 A    |

**Mechanical data**

|                                 |                           |
|---------------------------------|---------------------------|
| Head A: Degree of protection    | IP65, IP67                |
| Bending radius (mobile)         | min. 10 × outer diameter  |
| Bending radius (fixed)          | min. 7.5 × outer diameter |
| No. of bending cycles (C-track) | approx. 500000 Cycles     |
| Torsion speed                   | max. 35 cycles/min        |
| Torsion stress in °             | ± 180 °/m                 |
| No. of torsion cycles           | approx. 200000 Cycles     |
| Acceleration (C-track)          | max. 5 m/s <sup>2</sup>   |
| Travel speed (C-track)          | max. 3.3 m/s              |

**Environmental conditions**

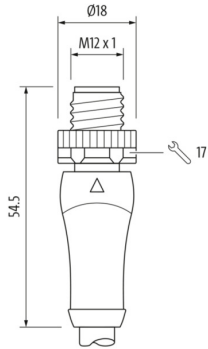
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|-----------------------------------|---|
| Temperature range (mobile)        | - 20 ...+ 80 °C   |
| Temperature range (fixed)         | - 25 ...+ 80 °C   |
| Cable: Temperature range (fixed)  | - 50 ...+ 80 °C   |
| Dragchain capable                 | Yes   |
| Head A: Chemical resistance       | No  |
| Head A: Flame resistance          | V-2 (UL 94)   |
| Head A: Acid and alkali resistant | No  |
| Head A: Pollution degree          | 3   |
| Cable: Chemical resistance        | Good (DIN EN 60811-404)                                   |
| Cable: Flame resistance           | Conform UL 1581 VW-1, CSA FT1, IEC 60332-1, IEC 60332-2-2 |
| Cable: Oil resistance             | Good (DIN EN 60811-404)                                   |
| Cable: Silicone-free              | Yes   |

**Commercial data**

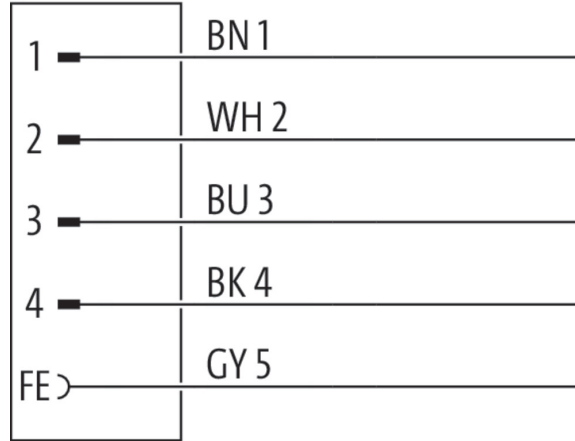
|        |          |
|--------|----------|
| Eclass | 27060311 |
|--------|----------|

**Side A**

**Technical drawing**

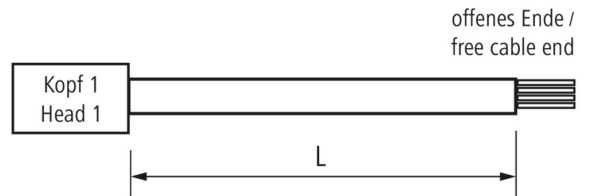
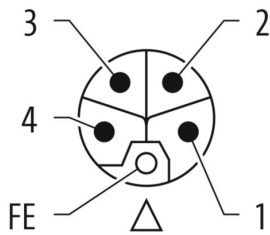


**Connection diagram**



**Coding**

**Dimension drawing**



**Side B**

**Technical drawing**

