

**Overview**

- M12, Female, A-coded, 12-poles; PUR, 200 cm, free cable end
- Dragchain capable; suitable for robotics  $\pm 180^\circ/\text{m}$
- Head A: IP65, IP66K, 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               | Female                                |
| Head A: Coding               | A                                     |
| Head A: No. of poles         | 12                                    |
| 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                                 |
| Head A: Gasket material      | FKM                                   |
| Labeling sleeve side A       | Yes                                   |

**Side B**

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

**Cables**

|                           |                      |
|---------------------------|----------------------|
| Cable length              | 200 cm               |
| Length tolerance          | + 10 cm              |
| Stripping length          | 80 mm                |
| Shielded                  | No                   |
| Conductor structure       | 18 × 0.1 mm          |
| AWG                       | 26                   |
| External sheath: Material | PUR                  |
| External sheath: Color    | Black                |
| Cable diameter            | 6 mm $\pm$ 5%        |
| Wire cross section        | 0.14 mm <sup>2</sup> |

**Electrical data**

|                               |                   |
|-------------------------------|-------------------|
| Operating voltage             | max. 30 V AC/DC 0 |
| Nominal voltage               | 300 V             |
| Contact resistance            | max. 30 mOhm      |
| Operating current per contact | max. 1.5 A        |

**Mechanical data**

|                                 |                           |
|---------------------------------|---------------------------|
| Head A: Degree of protection    | IP65, IP66K, IP67         |
| Bending radius (mobile)         | min. 10 × outer diameter  |
| Bending radius (fixed)          | min. 7.5 × outer diameter |
| No. of bending cycles (C-track) | approx. 2000000 Cycles    |
| Torsion speed                   | max. 35 cycles/min        |
| Torsion stress in °             | $\pm 180^\circ/\text{m}$  |
| No. of torsion cycles           | approx. 2000000 Cycles    |
| Acceleration (C-track)          | max. 5 m/s <sup>2</sup>   |
| Travel speed (C-track)          | max. 3.3 m/s              |

**Environmental conditions**

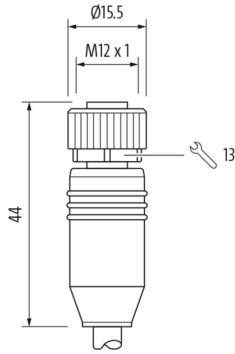
|                                   |   |
|-----------------------------------|---|
| Temperature range (mobile)        | - 25 ...+ 85 °C                                     |
| Temperature range (fixed)         | - 25 ...+ 85 °C                                     |
| Cable: Temperature range (fixed)  | - 40 ...+ 85 °C                                     |
| Dragchain capable                 | Yes   |
| Head A: Chemical resistance       | No  |
| 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 | No  |
| Head A: Pollution degree          | 3   |
| Cable: Chemical resistance        | Good (VDE 0472 part 803)                            |
| Cable: Flame resistance           | Conform VDE 0472 part 804 test type B, IEC 60332-2  |
| Cable: Oil resistance             | Good (VDE 0472 part 803)                            |
| Cable: Silicone-free              | Yes   |

**Commercial data**

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

**Side A**

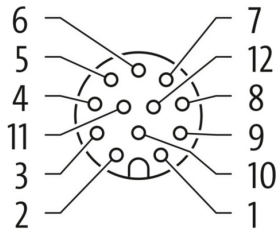
**Technical drawing**



**Connection diagram**

|    |   |       |
|----|---|-------|
| 1  | ) | BN    |
| 2  | ) | BU    |
| 3  | ) | WH    |
| 4  | ) | GN    |
| 5  | ) | PK    |
| 6  | ) | YE    |
| 7  | ) | BK    |
| 8  | ) | GY    |
| 9  | ) | RD    |
| 10 | ) | VT    |
| 11 | ) | GY PK |
| 12 | ) | RD BU |

**Coding**



**Side B**

**Technical drawing**

