

## Overview

- M12, male, A-coded; 8-poles; TPE-S, 100 cm, M12, female, A-coded
- Dragchain capable; suitable for robotics  $\pm 180^\circ/\text{m}$ ; suitable for food & beverage
- Head A: IP65, IP68, IP69K
- Halogen free



## Technical data

### 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         | 8                     |
| 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                    |
| Head A: Contact layout pin 1 | WH                    |
| Head A: Contact layout pin 2 | BN                    |
| Head A: Contact layout pin 3 | GN                    |
| Head A: Contact layout pin 4 | YE                    |
| Head A: Contact layout pin 5 | GY                    |
| Head A: Contact layout pin 6 | PK                    |
| Head A: Contact layout pin 7 | BU                    |
| Head A: Contact layout pin 8 | RD                    |

### Side B

|                              |                       |
|------------------------------|-----------------------|
| Head B: Connection           | M12                   |
| Head B: Angle cable outlet   | 0°                    |
| Head B: Gender               | Female                |
| Head B: Coding               | A                     |
| Head B: No. of poles         | 8                     |
| Head B: LED                  | No                    |
| Head B: Width across flats   | AF14                  |
| Head B: Tightening torque    | 0.6 Nm                |
| Head B: Knurled nut material | Stainless steel (V4A) |
| Head B: Body color           | Blue                  |
| Head B: Gasket material      | EPDM                  |

### Side B

|                              |    |
|------------------------------|----|
| Labeling sleeve side B       | No |
| Head B: Contact layout pin 1 | WH |
| Head B: Contact layout pin 2 | BN |
| Head B: Contact layout pin 3 | GN |
| Head B: Contact layout pin 4 | YE |
| Head B: Contact layout pin 5 | GY |
| Head B: Contact layout pin 6 | PK |
| Head B: Contact layout pin 7 | BU |
| Head B: Contact layout pin 8 | RD |

### Cables

|                           |                      |
|---------------------------|----------------------|
| Cable length              | 100 cm               |
| Shielded                  | No                   |
| AWG                       | 24                   |
| External sheath: Material | TPE-S                |
| External sheath: Color    | Blue                 |
| Cable diameter            | 6.3 mm $\pm$ 5%      |
| Wire cross section        | 0.25 mm <sup>2</sup> |
| Cable: Halogen free       | Yes                  |

### Cable

|                                    |                    |
|------------------------------------|--------------------|
| Operating voltage (only UL listed) | 30 V AC/DC         |
| Shielded                           | No                 |
| Bending radius (fixed)             | 31.5 mm            |
| Number of wires                    | 8                  |
| Number and diameter of wires       | 8x0.25             |
| Cable length                       | 100 cm             |
| AWG                                | 24                 |
| Torsion speed                      | max. 35 cycles/min |
| Cable diameter                     | 6.3 mm $\pm$ 5%    |
| Conductor: Material                | Copper, bare       |
| External sheath: Material          | TPE-S              |
| Insulation: Material               | PP                 |

**Technical data**
**Cable**

|                        |                                   |
|------------------------|-----------------------------------|
| Paired stranding       | No                                |
| Torsion stress in °    | ± 180 °/m                         |
| Total stranding        | 8 wires strand around core-filler |
| Wire cross section     | 0.25 mm²                          |
| Wire processing        | No                                |
| External sheath: Color | Blue                              |

**Electrical data**

|                                    |            |
|------------------------------------|------------|
| Operating voltage (only UL listed) | 30 V AC/DC |
|------------------------------------|------------|

**Mechanical data**

|                              |                    |
|------------------------------|--------------------|
| Head A: Degree of protection | IP65, IP68, IP69K  |
| Head B: Degree of protection | IP65, IP68, IP69K  |
| Torsion speed                | max. 35 cycles/min |
| Torsion stress in °          | ± 180 °/m          |

**Environmental conditions**

|                             |                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature range (mobile)  | - 25 ...+ 80 °C                                                                                                                                                              |
| Temperature range (fixed)   | - 25 ...+ 85 °C                                                                                                                                                              |
| 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      | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |

**Environmental conditions**

|                                   |                                                                                                                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Head A: Acid and alkali resistant | Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.                                |
| Head A: Pollution degree          | 3                                                                                                                                                                            |
| Head B: Chemical resistance       | Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.                                |
| Head B: Flame resistance          | HB (UL 94)                                                                                                                                                                   |
| Head B: Oil resistance            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |
| Head B: Acid and alkali resistant | Chemical resistance tested according to ECOLAB. If other media are used, the material resistance must be tested according to the application.                                |
| Head B: Pollution degree          | 3                                                                                                                                                                            |
| Cable: Acid and alkali resistant  | Good (analogue FDA 21 178.3620, 178.3297, 177.1520)                                                                                                                          |
| Cable: Silicone-free              | Yes                                                                                                                                                                          |
| Cable: UV resistance              | Yes                                                                                                                                                                          |

**Commercial data**

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