



Figure can vary

**Part no.: 50135142**  
**KS S-M12-8A-P1-300**  
**Connection cable**



## Contents

- Technical data
- Electrical connection

## Technical data

### Electrical data

#### Performance data

|                   |            |
|-------------------|------------|
| Operating voltage | 30 V AC/DC |
|-------------------|------------|

### Connection

#### Connection 1

|                      |  |
|----------------------|--|
| Type of connection   | Connector  |
| Thread size          | M12  |
| Type                 | Male   |
| Handle body material | PUR  |
| No. of pins          | 8 -pin   |
| Encoding             | A-coded  |
| Design               | Axial  |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

#### Connection 2

|                    |          |
|--------------------|----------|
| Type of connection | Open end |
|--------------------|----------|

#### Cable properties

|                                   |   |
|-----------------------------------|---|
| Number of conductors              | 8 Piece(s)  |
| Wire cross section                | 0.25 mm <sup>2</sup>  |
| AWG                               | 24  |
| Sheathing color                   | Black   |
| Shielded                          | Yes   |
| Silicone-free                     | Yes   |
| Cable design                      | Connection cable (open on one end)  |
| Cable diameter (external)         | 6.6 mm  |
| Cable length                      | 30,000 mm   |
| Sheathing material                | PUR   |
| Wire insulation                   | PP  |
| Traverse rate                     | Max. 3.3 m/s with horiz. traverse path of 5m and and max. acceleration of 5m/s <sup>2</sup>   |
| Suitability for drag chains       | Yes   |
| Properties of the outer sheathing | Free of CFC, cadmium, silicone, halogen and lead, matt, low-adhesion, abrasion-resistant, easily machine-processable  |
| Resistance of the outer sheathing | Hydrolysis and microbe resistant, good oil, gasoline and chemical resistance in accordance with VDE 0472 part 803 test B, flame retardant in accordance with UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 |
| Torsion suitability               | ±30° / m (max. 2 mio. cycles with 35 cycles / min)  |

### Mechanical data

|   |                          |
|---|--------------------------|
| Width across flats                      | 13 mm                    |
| Bending cycles                          | 2,000,000 Piece(s)       |
| Bending radius, flexible laying, min.   | Min. 10 x cable diameter |
| Bending radius, stationary laying, min. | Min. 10 x cable diameter |

### Environmental data

|  |               |
|--|---------------|
| Ambient temperature, operation, flexible use   | -20 ... 80 °C |
| Ambient temperature, operation, stationary use | -40 ... 80 °C |

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#### Certifications

|                      |                |
|----------------------|----------------|
| Degree of protection | IP 65<br>IP 67 |
|----------------------|----------------|

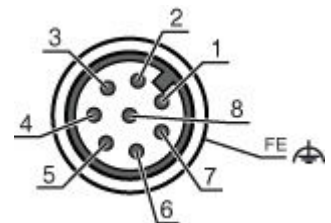
#### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| eCl@ss 8.0            | 27279218 |
| eCl@ss 9.0            | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |

## Electrical connection

| Connection 1         |  |
|----------------------|--|
| Type of connection   | Connector  |
| Thread size          | M12  |
| Type                 | Male   |
| Handle body material | PUR  |
| No. of pins          | 8 -pin   |
| Encoding             | A-coded  |
| Design               | Axial  |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

| Pin | Conductor color |
|-----|-----------------|
| 1   | White           |
| 2   | Brown           |
| 3   | Green           |
| 4   | Yellow          |
| 5   | Gray            |
| 6   | Pink            |
| 7   | Blue            |
| 8   | Red             |



| Connection 2       |          |
|--------------------|----------|
| Type of connection | Open end |