

## Technical data sheet

### Connection cable

Part no.: 50135122

KD U-M12-8A-P1-050

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- Technical data
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- Circuit diagrams



For illustration purposes only



# Technical data

## Basic data

|             |                             |
|-------------|-----------------------------|
| Application | Oil and lubricant resistant |
|-------------|-----------------------------|

## Electrical data

### Performance data

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

## Connection

### Connection 1

|                      |  |
|----------------------|--|
| Type of connection   | Connector  |
| Thread size          | M12  |
| Type                 | Female   |
| Handle body material | PUR  |
| No. of pins          | 8 -pin   |
| Encoding             | A-coded  |
| Version              | Axial  |
| Connector, LED       | No   |
| 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                          | No  |
| Silicone-free                     | Yes   |
| Cable design                      | Connection cable (open on one end)  |
| Cable diameter (external)         | 6.6 mm  |
| Cable length                      | 5,000 mm  |
| Sheathing material                | PUR   |
| Wire insulation                   | PP  |
| Traverse rate                     | Max. 3.3 m/s with horiz. traverse path of 5m 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                    |
| Net weight                              | 235 g                    |
| 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 |

## Operation and display

### Environmental data

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

### Certifications

|                      |       |
|----------------------|-------|
| Degree of protection | IP 65 |
|                      | IP 67 |
| Approvals            | c UL  |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| ECLASS 5.1.4          | 27279201 |
| ECLASS 8.0            | 27279218 |
| ECLASS 9.0            | 27060311 |
| ECLASS 10.0           | 27060311 |
| ECLASS 11.0           | 27060311 |
| ECLASS 12.0           | 27060311 |
| ECLASS 13.0           | 27060311 |
| ECLASS 14.0           | 27060311 |
| ECLASS 15.0           | 27060311 |
| ECLASS 16.0           | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |
| ETIM 7.0              | EC001855 |
| ETIM 8.0              | EC001855 |
| ETIM 9.0              | EC001855 |
| ETIM 10.0             | EC001855 |
| UNSPSC 26.08          | 26121604 |

# Electrical connection

## Connection 1

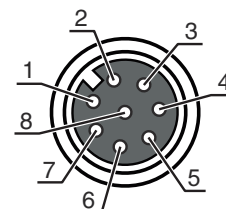
|                      |           |
|----------------------|-----------|
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| Type                 | Female    |
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# Electrical connection

## Connection 1

|                |  |
|----------------|--|
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| Connector, LED | No   |
| 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 |
|--------------------|----------|

# Circuit diagrams

## Wiring schematic

