

## Technical data sheet Interconnection cable

Part no.: 50130931

KDS U-M8-3A-M12-3A-P1-020

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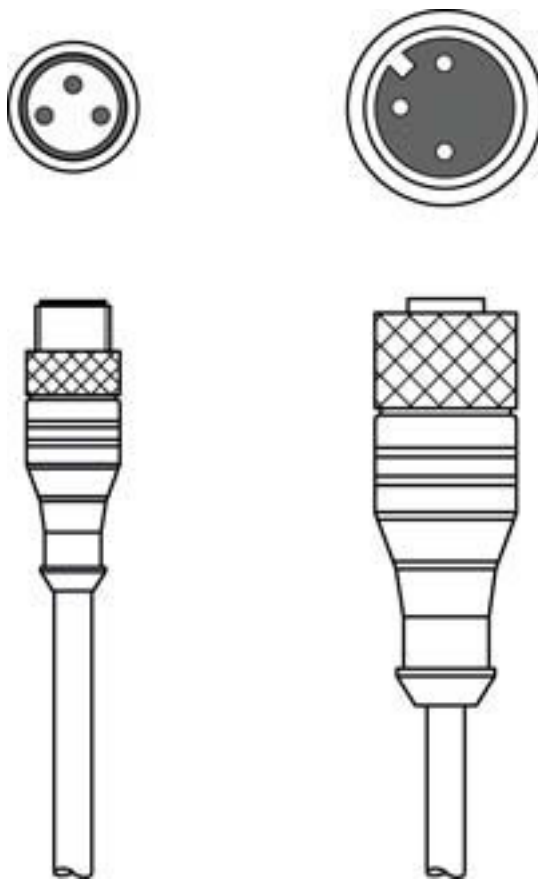


Figure can vary



## Technical data

### Connection

#### Connection 1

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M8        |
| Type               | Male      |
| No. of pins        | 3 -pin    |
| Version            | Axial     |

#### Connection 2

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Female    |
| No. of pins        | 3 -pin    |
| Encoding           | A-coded   |
| Version            | Axial     |

#### Cable properties

|                                   |   |
|-----------------------------------|---|
| Number of conductors              | 3 Piece(s)  |
| Wire cross section                | 0.25 mm <sup>2</sup>  |
| AWG                               | 24  |
| Sheathing color                   | Black   |
| Shielded                          | No  |
| Silicone-free                     | Yes   |
| Cable design                      | Interconnection cable   |
| Cable diameter (external)         | 4.3 mm  |
| Cable length                      | 2,000 mm  |
| Sheathing material                | PUR   |
| Wire insulation                   | PUR   |
| 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               | ±180° / m (max. 2 mio. cycles with 35 cycles / min)   |

### Mechanical data

|   |                          |
|---|--------------------------|
| Width across flats                      | 13 mm                    |
| Net weight                              | 70 g                     |
| Bending cycles                          | 5,000,000 Piece(s)       |
| Bending radius, flexible laying, min.   | Min. 10 x cable diameter |
| Bending radius, stationary laying, min. | Min. 5 x cable diameter  |

### Environmental data

|  |               |
|--|---------------|
| Ambient temperature, operation, flexible use   | -25 ... 80 °C |
| Ambient temperature, operation, stationary use | -40 ... 80 °C |

### Certifications

|                      |         |
|----------------------|---------|
| Degree of protection | IP 65   |
|                      | IP 67   |
| Certifications       | c UL US |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| eCl@ss 5.1.4          | 27279201 |
| eCl@ss 8.0            | 27279218 |
| eCl@ss 9.0            | 27060311 |
| eCl@ss 10.0           | 27060311 |
| eCl@ss 11.0           | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |
| ETIM 7.0              | EC001855 |

## Electrical connection

### Connection 1

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M8        |
| Type               | Male      |
| No. of pins        | 3 -pin    |
| Version            | Axial     |

### Connection 2

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Female    |
| No. of pins        | 3 -pin    |
| Encoding           | A-coded   |
| Version            | Axial     |

## Circuit diagrams

### Wiring schematic

