

# Technical data sheet

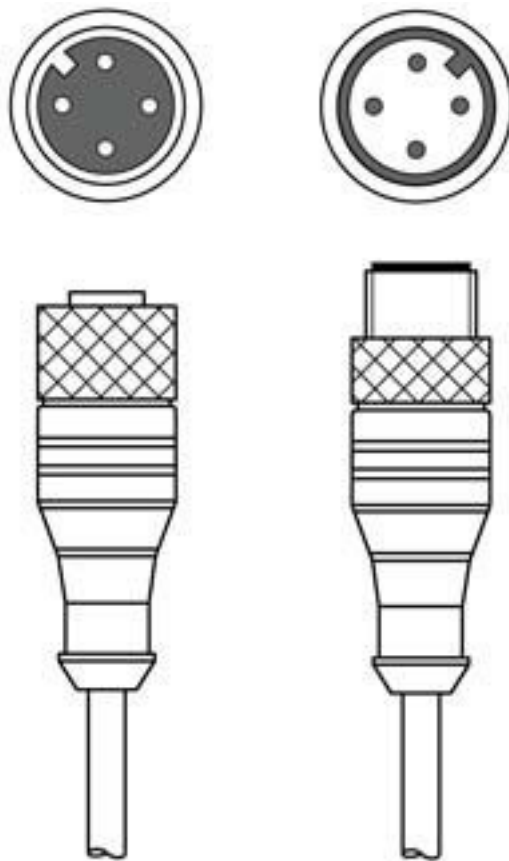
## Interconnection cable

Part no.: 50130738

KDS U-M12-4A-M12-4A-P1-006

### Contents

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- Electrical connection
- Circuit diagrams



For illustration purposes only



## Technical data

### Basic data

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

### Connection

#### Connection 1

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Female    |
| No. of pins        | 4 -pin    |
| Encoding           | A-coded   |
| Version            | Axial     |
| Connector, LED     | No        |

#### Connection 2

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Male      |
| No. of pins        | 4 -pin    |
| Encoding           | A-coded   |
| Version            | Axial     |

#### Cable properties

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Number of conductors      | 4 Piece(s)                                                                               |
| Wire cross section        | 0.34 mm <sup>2</sup>                                                                     |
| AWG                       | 22                                                                                       |
| Sheathing color           | Black                                                                                    |
| Shielded                  | No                                                                                       |
| Silicone-free             | Yes                                                                                      |
| Cable design              | Interconnection cable                                                                    |
| Cable diameter (external) | 4.7 mm                                                                                   |
| Cable length              | 600 mm                                                                                   |
| Sheathing material        | PUR                                                                                      |
| Wire insulation           | PP                                                                                       |
| Traversal rate            | Max. 3.3 m/s with horiz. traversal path of 5m and max. acceleration of 5m/s <sup>2</sup> |

#### Suitability for drag chains

|                                   |                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 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                              | 44 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  |

### Operation and display

### 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   |
| Approvals            | c UL US |
| UL file number       | E366145 |

### 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 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |
| ETIM 7.0              | EC001855 |
| ETIM 8.0              | EC001855 |
| ETIM 9.0              | EC001855 |
| ETIM 10.0             | EC001855 |

## Electrical connection

### Connection 1

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Female    |
| No. of pins        | 4 -pin    |
| Encoding           | A-coded   |
| Version            | Axial     |
| Connector, LED     | No        |

Electrical connection

Connection 2

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Male      |
| No. of pins        | 4 -pin    |
| Encoding           | A-coded   |
| Version            | Axial     |

Circuit diagrams

Wiring schematic

