

## Technical data sheet Interconnection cable

Part no.: 50138184

KDS SC-M12-5A-M12-5A-P1-050

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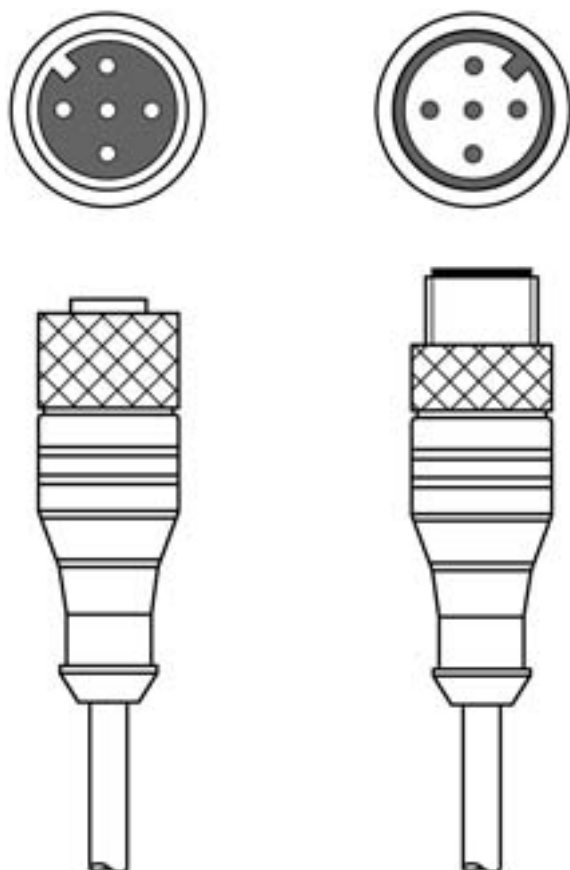


Figure can vary



## Technical data

### Special design

|                |           |
|----------------|-----------|
| Special design | SmartCore |
|----------------|-----------|

### Connection

#### Connection 1

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Female    |
| No. of pins        | 5 -pin    |
| Encoding           | A-coded   |
| Design             | Axial     |

#### Connection 2

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Male      |
| No. of pins        | 5 -pin    |
| Encoding           | A-coded   |
| Design             | Axial     |

#### Cable properties

|                                   |                                                                                                                                                                                                                                      |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of conductors              | 5 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)         | 5.6 mm                                                                                                                                                                                                                               |
| Cable length                      | 5,000 mm                                                                                                                                                                                                                             |
| Sheathing material                | PUR                                                                                                                                                                                                                                  |
| Wire insulation                   | PUR                                                                                                                                                                                                                                  |
| 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, and lead, matt, low-adhesion, abrasion-resistant, easily machine-processable<br>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                          | 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<br>IP 67 |
| Certifications       | c UL US        |

### 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       |
| Bridged            | Pin 1 <-> Pin 2 |
| Thread size        | M12             |
| Type               | Female          |
| No. of pins        | 5 -pin          |
| Encoding           | A-coded         |
| Design             | Axial           |

Electrical connection

Connection 2

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Male      |
| No. of pins        | 5 -pin    |
| Encoding           | A-coded   |
| Design             | Axial     |

Circuit diagrams

Wiring schematic

