

# Technical data sheet

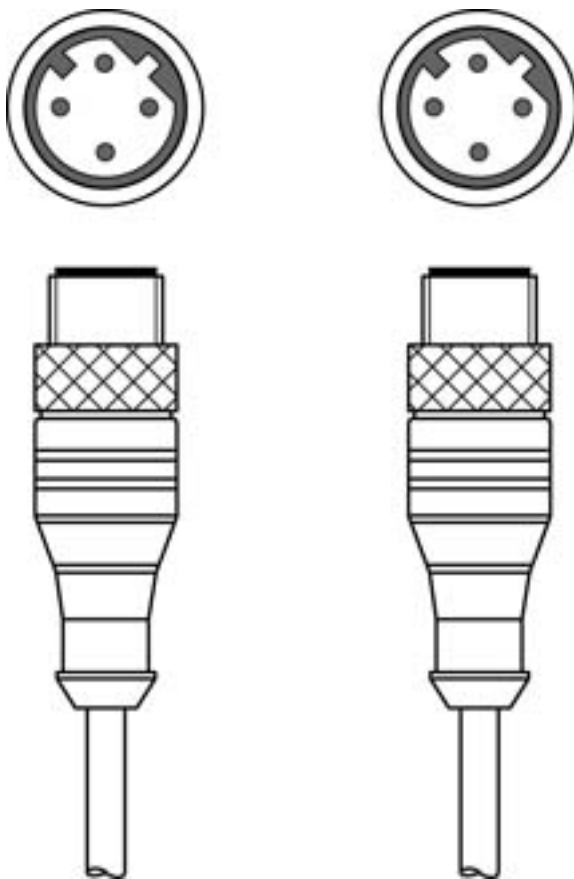
## Interconnection cable

Part no.: 50137079

KSS ET-M12-4A-M12-4A-P7-100

### Contents

- Technical data
- Electrical connection
- Circuit diagrams



For illustration purposes only



## Technical data

### Basic data

|                        |                             |
|------------------------|-----------------------------|
| Application            | Oil and lubricant resistant |
| Suitable for interface | Ethernet                    |

### Electrical data

|                   |         |
|-------------------|---------|
| Performance data  |         |
| Operating voltage | 60 V DC |

### Connection

|                                   |                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Connection 1</b>               |                                                                                                                                                                                                                 |
| Type of connection                | Connector                                                                                                                                                                                                       |
| Thread size                       | M12                                                                                                                                                                                                             |
| Type                              | Male                                                                                                                                                                                                            |
| No. of pins                       | 4 -pin                                                                                                                                                                                                          |
| Encoding                          | D-coded                                                                                                                                                                                                         |
| Version                           | Axial                                                                                                                                                                                                           |
| Connector, LED                    | No                                                                                                                                                                                                              |
| <b>Connection 2</b>               |                                                                                                                                                                                                                 |
| Type of connection                | Connector                                                                                                                                                                                                       |
| Thread size                       | M12                                                                                                                                                                                                             |
| Type                              | Male                                                                                                                                                                                                            |
| No. of pins                       | 4 -pin                                                                                                                                                                                                          |
| Encoding                          | D-coded                                                                                                                                                                                                         |
| Version                           | Axial                                                                                                                                                                                                           |
| <b>Cable properties</b>           |                                                                                                                                                                                                                 |
| Number of conductors              | 4 Piece(s)                                                                                                                                                                                                      |
| Wire cross section                | 0.34 mm <sup>2</sup>                                                                                                                                                                                            |
| AWG                               | 22                                                                                                                                                                                                              |
| Sheathing color                   | Green                                                                                                                                                                                                           |
| Shielded                          | Yes                                                                                                                                                                                                             |
| Silicone-free                     | Yes                                                                                                                                                                                                             |
| Cable design                      | Interconnection cable                                                                                                                                                                                           |
| Cable diameter (external)         | 6.7 mm                                                                                                                                                                                                          |
| Cable length                      | 10,000 mm                                                                                                                                                                                                       |
| Sheathing material                | PUR                                                                                                                                                                                                             |
| Wire insulation                   | PP                                                                                                                                                                                                              |
| Suitability for drag chains       | Yes                                                                                                                                                                                                             |
| Traverse rate                     | Max. 3.3 m/s with horiz. traverse path of 5m and max. acceleration of 2m/s <sup>2</sup>                                                                                                                         |
| 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 |

### Mechanical data

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Width across flats                      | 13 mm                            |
| Bending cycles                          | 2,000,000 Piece(s)               |
| Bending radius, flexible laying, min.   | One-time min. 5 x cable diameter |
| Bending radius, stationary laying, min. | One-time min. 5 x cable diameter |

### Operation and display

### Environmental data

|                                                |               |
|------------------------------------------------|---------------|
| Ambient temperature, operation, flexible use   | -20 ... 60 °C |
| Ambient temperature, operation, stationary use | -20 ... 60 °C |

### Certifications

|                      |       |
|----------------------|-------|
| Degree of protection | IP 67 |
|----------------------|-------|

### 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               | Male      |
| No. of pins        | 4 -pin    |
| Encoding           | D-coded   |
| Version            | Axial     |
| Connector, LED     | No        |

Connection 2

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

Circuit diagrams

Wiring schematic



- a

TD+
- b

RD+
- c

TD-
- d

RD-
- e

Shield