

## Technical data sheet Interconnection cable

Part no.: 50135084

KSS ET-M12-4A-RJ45-A-P7-300

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- Electrical connection
- Circuit diagrams

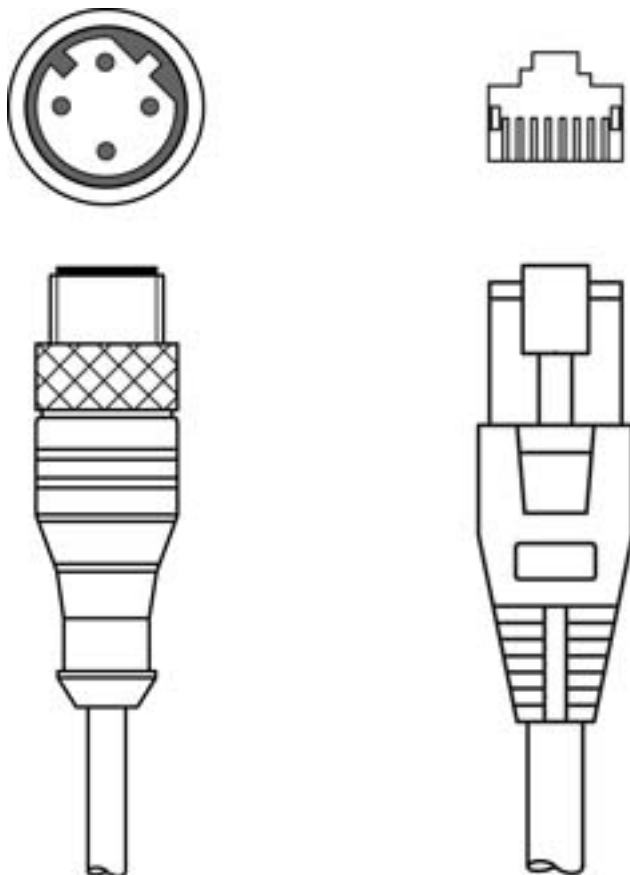


Figure can vary



## Technical data

### Basic data

|                        |          |
|------------------------|----------|
| Suitable for interface | Ethernet |
|------------------------|----------|

### Electrical data

#### Performance data

|                   |         |
|-------------------|---------|
| Operating voltage | 60 V DC |
|-------------------|---------|

### Connection

#### Connection 1

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Type of connection   | Connector                                                                          |
| Thread size          | M12                                                                                |
| Type                 | Male                                                                               |
| Handle body material | PUR                                                                                |
| No. of pins          | 4 -pin                                                                             |
| Encoding             | D-coded                                                                            |
| Design               | Axial                                                                              |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

#### Connection 2

|                    |        |
|--------------------|--------|
| Type of connection | RJ45   |
| Type               | Male   |
| No. of pins        | 4 -pin |
| Design             | Axial  |

#### Cable properties

|                             |                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------|
| 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                | 30,000 mm                                                                                   |
| Sheathing material          | PUR                                                                                         |
| Wire insulation             | PP                                                                                          |
| Traverse rate               | Max. 3.3 m/s with horiz. traverse path of 5m and and max. acceleration of 2m/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 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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 |

### Environmental data

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

### Certifications

|                      |               |
|----------------------|---------------|
| Degree of protection | IP 20 (RJ 45) |
|                      | IP 65         |
|                      | IP 67         |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85444210 |
| eCl@ss 8.0            | 27279218 |
| eCl@ss 9.0            | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |

Electrical connection

Connection 1

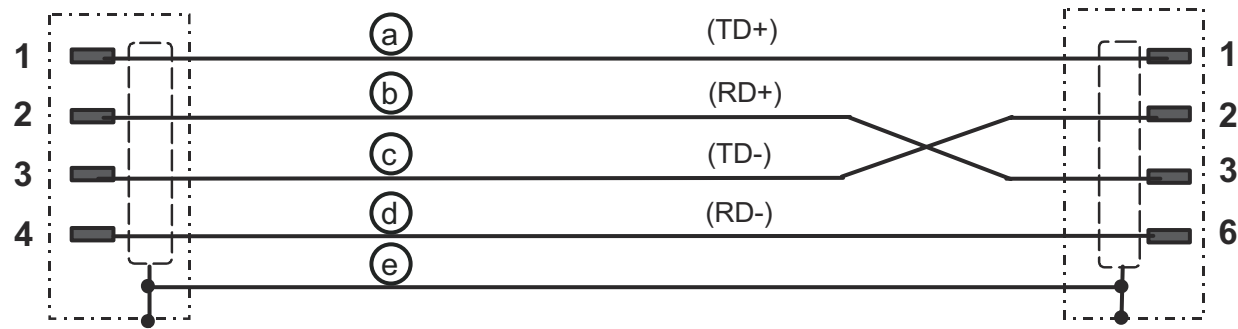
|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Type of connection   | Connector                                                                          |
| Thread size          | M12                                                                                |
| Type                 | Male                                                                               |
| Handle body material | PUR                                                                                |
| No. of pins          | 4 -pin                                                                             |
| Encoding             | D-coded                                                                            |
| Design               | Axial                                                                              |
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Connection 2

|                    |      |
|--------------------|------|
| Type of connection | RJ45 |
|--------------------|------|

Circuit diagrams

Wiring schematic



- a Yellow wire
- b White wire
- c Orange wire
- d Blue wire
- e Shield