

## Technical data sheet Interconnection cable

Part no.: 50135252

KDS PB-M12-4A-M12-4A-P3-010

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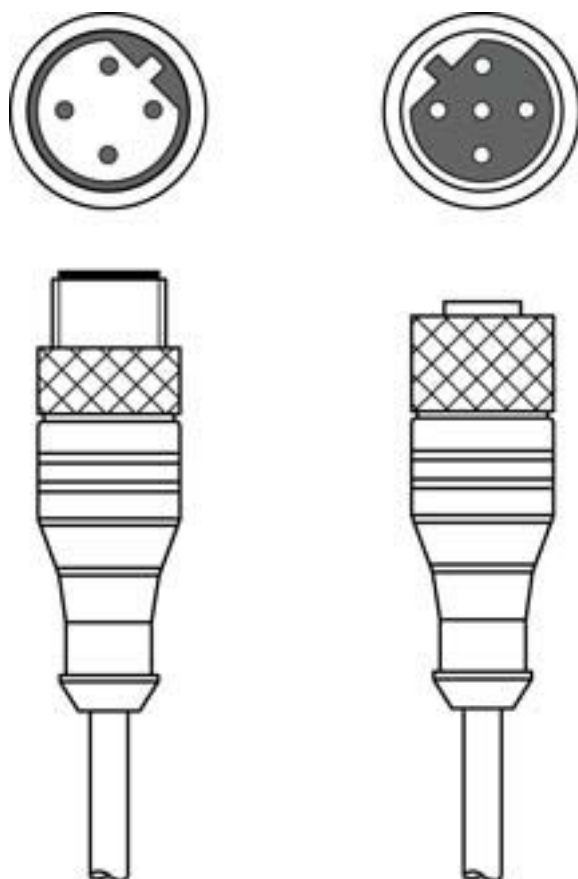


Figure can vary



## Technical data

### Basic data

|                        |             |
|------------------------|-------------|
| Suitable for interface | PROFIBUS DP |
|------------------------|-------------|

### Electrical data

#### Performance data

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

### Connection

#### Connection 1

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Type of connection   | Connector                                                                          |
| Thread size          | M12                                                                                |
| Type                 | Female                                                                             |
| Handle body material | PUR                                                                                |
| No. of pins          | 5 -pin                                                                             |
| Encoding             | B-coded                                                                            |
| Design               | Axial                                                                              |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

#### Connection 2

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

#### Cable properties

|                             |                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------|
| Number of conductors        | 2 Piece(s)                                                                              |
| Wire cross section          | 0.64 mm <sup>2</sup>                                                                    |
| AWG                         | 19                                                                                      |
| Sheathing color             | Violet                                                                                  |
| Shielded                    | Yes                                                                                     |
| Silicone-free               | Yes                                                                                     |
| Cable design                | Interconnection cable                                                                   |
| Cable diameter (external)   | 7.7 mm                                                                                  |
| Cable length                | 1,000 mm                                                                                |
| Sheathing material          | PUR                                                                                     |
| Wire insulation             | PE                                                                                      |
| Suitability for drag chains | Yes                                                                                     |
| Traversal rate              | Max. 3.3 m/s with horiz. traverse path of 5m and max. acceleration of 5m/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                          | 5,000,000 Piece(s)        |
| Bending radius, flexible laying, min.   | Min. 12 x cable diameter  |
| Bending radius, stationary laying, min. | Min. 7.5 x cable diameter |

### Environmental data

|                                                |               |
|------------------------------------------------|---------------|
| Ambient temperature, operation, flexible use   | -20 ... 70 °C |
| Ambient temperature, operation, stationary use | -40 ... 80 °C |

### Certifications

|                      |       |
|----------------------|-------|
| Degree of protection | IP 65 |
|                      | IP 67 |

### 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

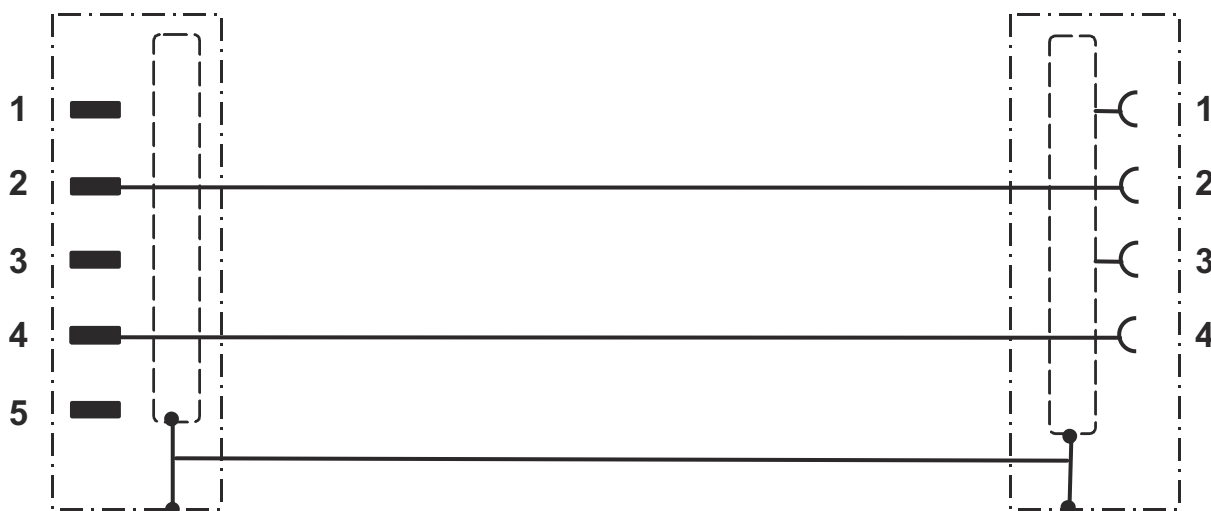
|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Type of connection   | Connector                                                                          |
| Thread size          | M12                                                                                |
| Type                 | Female                                                                             |
| Handle body material | PUR                                                                                |
| No. of pins          | 5 -pin                                                                             |
| Encoding             | B-coded                                                                            |
| Design               | Axial                                                                              |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

### Connection 2

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

## Circuit diagrams

### Wiring schematic



- a Green wire
- b Red wire
- c Shield