

**Part no.: 50135256**  
**KDS PB-M12-4A-M12-4A-P3-150**  
**Interconnection cable**



Figure can vary

## Contents

- Technical data
- Electrical connection
- Circuit diagrams

## 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                      | 15,000 mm   |
| Sheathing material                | PUR   |
| Wire insulation                   | PE  |
| 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 |
|--------------------|-------|

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|   |                           |
|---|---------------------------|
| 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

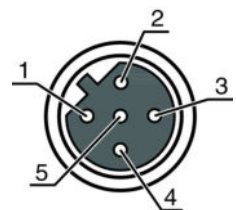
|                      |                |
|----------------------|----------------|
| Degree of protection | IP 65<br>IP 67 |
|----------------------|----------------|

### 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

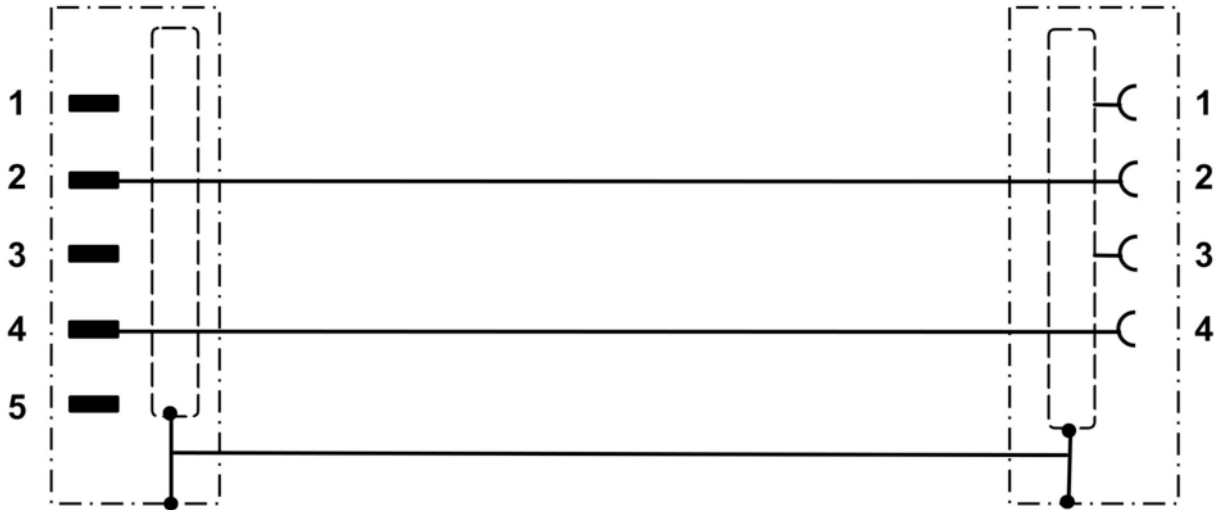
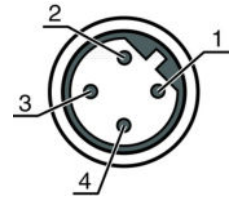
| Connection 1         |  |
|----------------------|--|
| Type of connection   | Connector  |
| Thread size          | M12  |
| Type                 | Female   |
| Handle body material | PUR  |
| No. of pins          | 5 -pin   |
| Encoding             | B-coded  |
| Design               | Axial  |
| 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