



**Part no.: 50135253**  
**KDS PB-M12-4A-M12-4A-P3-020**  
**Interconnection cable**

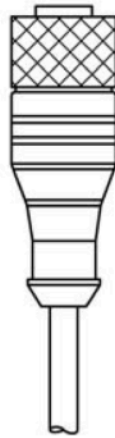


Figure can vary

## Contents

- Technical data
- Electrical connection
- Circuit diagrams

## Technical data

### Basic data

Suitable for interface	PROFIBUS DP
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### Electrical data

#### Performance data

Operating voltage	60 V DC
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### 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	2,000 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**

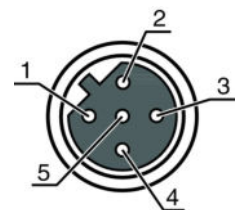
Degree of protection	IP 65 IP 67
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**Classification**

Customs tariff number	85444290
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311
ETIM 5.0	EC001855
ETIM 6.0	EC001855

## Electrical connection

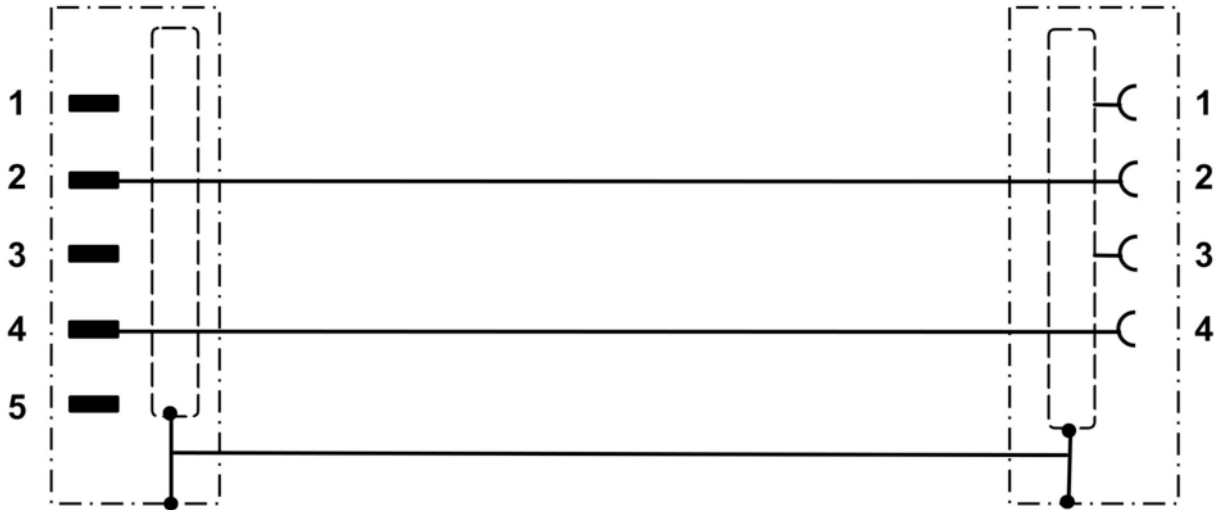
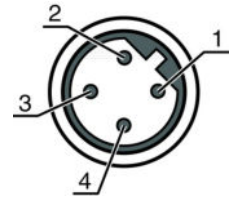
Connection 1	
Type of connection	Connector
Thread size	M12
Type	Female
Handle body material	PUR
No. of pins	5 -pin
Encoding	B-coded
Design	Axial
Lock	Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking



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