

Technical data sheet Interconnection cable

Part no.: 50138186

KDS SC-M12-5A-M12-5A-P1-300

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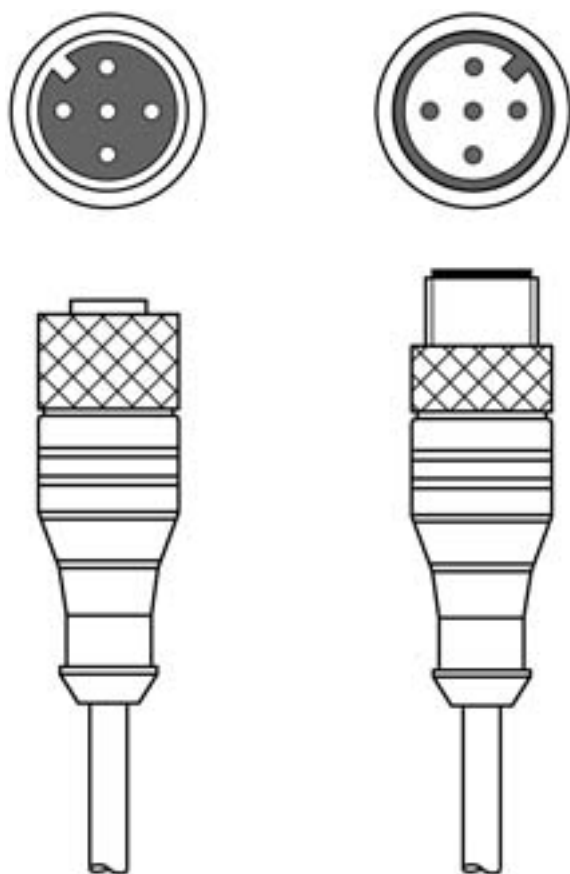


Figure can vary



Technical data

Special version

Special version	SmartCore
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Connection

Connection 1

Type of connection	Connector
Thread size	M12
Type	Female
No. of pins	5 -pin
Encoding	A-coded
Version	Axial

Connection 2

Type of connection	Connector
Thread size	M12
Type	Male
No. of pins	5 -pin
Encoding	A-coded
Version	Axial

Cable properties

Number of conductors	5 Piece(s)
Wire cross section	0.34 mm ²
AWG	22
Sheathing color	Black
Shielded	No
Silicone-free	Yes
Cable design	Interconnection cable
Cable diameter (external)	5.6 mm
Cable length	30,000 mm
Sheathing material	PUR
Wire insulation	PUR
Traverse rate	Max. 3.3 m/s with horiz. traverse path of 5m and and max. acceleration of 5m/s ²
Suitability for drag chains	Yes
Properties of the outer sheathing	Free of CFC, cadmium, silicone, and lead, matt, low-adhesion, abrasion-resistant, easily machine-processable 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
Torsion suitability	±30° / m (max. 2 mio. cycles with 35 cycles / min)

Mechanical data

Width across flats	13 mm
Bending cycles	5,000,000 Piece(s)
Bending radius, flexible laying, min.	Min. 10 x cable diameter
Bending radius, stationary laying, min.	Min. 5 x cable diameter

Environmental data

Ambient temperature, operation, flexible use	-25 ... 80 °C
Ambient temperature, operation, stationary use	-40 ... 80 °C

Certifications

Degree of protection	IP 65 IP 67
Certifications	c UL US

Classification

Customs tariff number	85444290
eCl@ss 5.1.4	27279201
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311
eCl@ss 10.0	27060311
eCl@ss 11.0	27060311
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

Electrical connection

Connection 1

Type of connection	Connector
Bridged	Pin 1 <-> Pin 2
Thread size	M12
Type	Female
No. of pins	5 -pin
Encoding	A-coded
Version	Axial

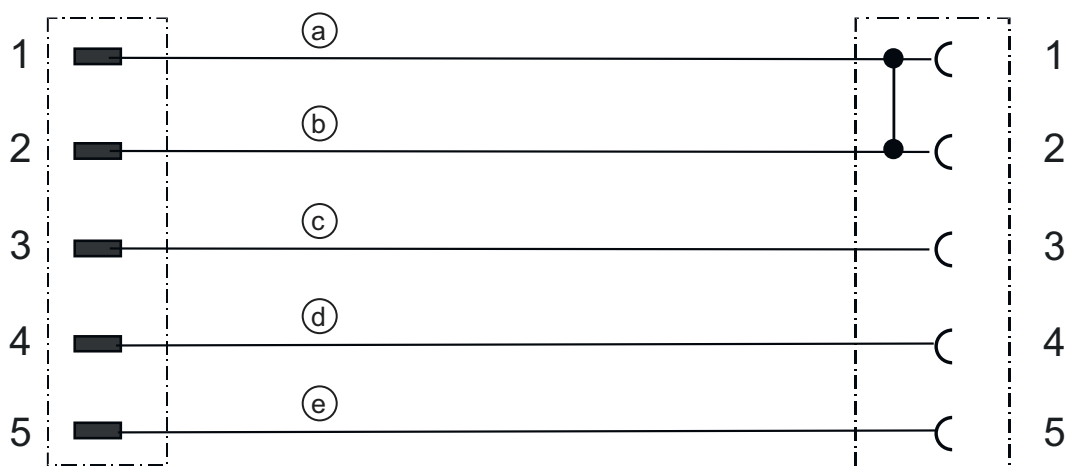
Electrical connection

Connection 2

Type of connection	Connector
Thread size	M12
Type	Male
No. of pins	5 -pin
Encoding	A-coded
Version	Axial

Circuit diagrams

Wiring schematic



- a Brown wire
- b Red wire
- c Blue wire
- d Black wire
- e White wire