

Figure can vary

Part no.: 50138185
KDS SC-M12-5A-M12-5A-P1-100
Interconnection cable



Contents

- Technical data
- Electrical connection
- Circuit diagrams

Technical data

Special design	
Special design	SmartCore
Connection	
Connection 1	
Type of connection	Connector
Thread size	M12
Type	Female
No. of pins	5 -pin
Encoding	A-coded
Design	Axial
Connection 2	
Type of connection	Connector
Thread size	M12
Type	Male
No. of pins	5 -pin
Encoding	A-coded
Design	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	10,000 mm
Sheathing material	PUR
Wire insulation	PUR
Suitability for drag chains	Yes
Traverse rate	Max. 3.3 m/s with horiz. traverse path of 5m and and max. acceleration of 5m/s ²
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

Part no.: 50138185 – KDS SC-M12-5A-M12-5A-P1-100 – Interconnection cable

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

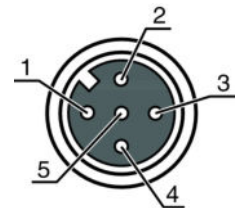
Degree of protection	IP 65 IP 67
Certifications	c UL US

Classification

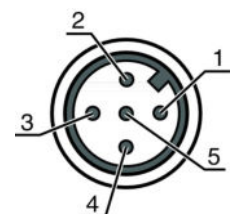
Customs tariff number	85444290
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311
ETIM 5.0	EC001855
ETIM 6.0	EC001855

Electrical connection

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

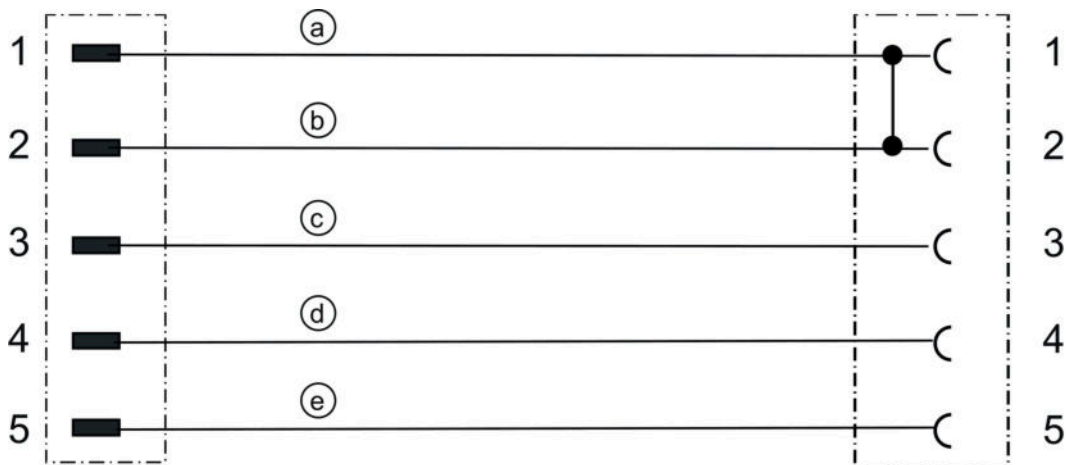


Connection 2	
Type of connection	Connector
Thread size	M12
Type	Male
Handle body material	
No. of pins	5 -pin
Encoding	A-coded
Design	Axial
Lock	



Circuit diagrams

Wiring schematic



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