

**Part no.: 50138186**  
**KDS SC-M12-5A-M12-5A-P1-300**  
**Interconnection cable**



Figure can vary

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## Technical data

<b>Special design</b>	
Special design	SmartCore

<b>Connection</b>	
<b>Connection 1</b>	
Type of connection	Connector
Thread size	M12
Type	Female
No. of pins	5 -pin
Encoding	A-coded
Design	Axial
<b>Connection 2</b>	
Type of connection	Connector
Thread size	M12
Type	Male
No. of pins	5 -pin
Encoding	A-coded
Design	Axial
<b>Cable properties</b>	
Number of conductors	5 Piece(s)
Wire cross section	0.34 mm <sup>2</sup>
AWG	22
Sheathing color	Black
Shielded	Yes
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 <sup>2</sup>
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)
<b>Mechanical data</b>	
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
<b>Environmental data</b>	
Ambient temperature, operation, flexible use	-25 ... 80 °C

**Part no.: 50138186 – KDS SC-M12-5A-M12-5A-P1-300 – Interconnection cable**

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

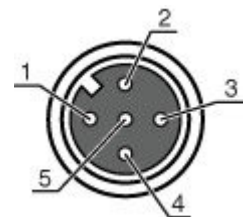
Degree of protection	IP 65 IP 67
Certifications	c UL US

**Classification**

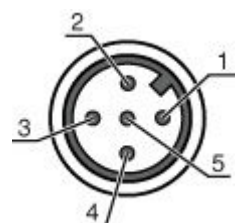
Customs tariff number	85444290
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311
ETIM 5.0	EC001855
ETIM 6.0	EC001855

**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

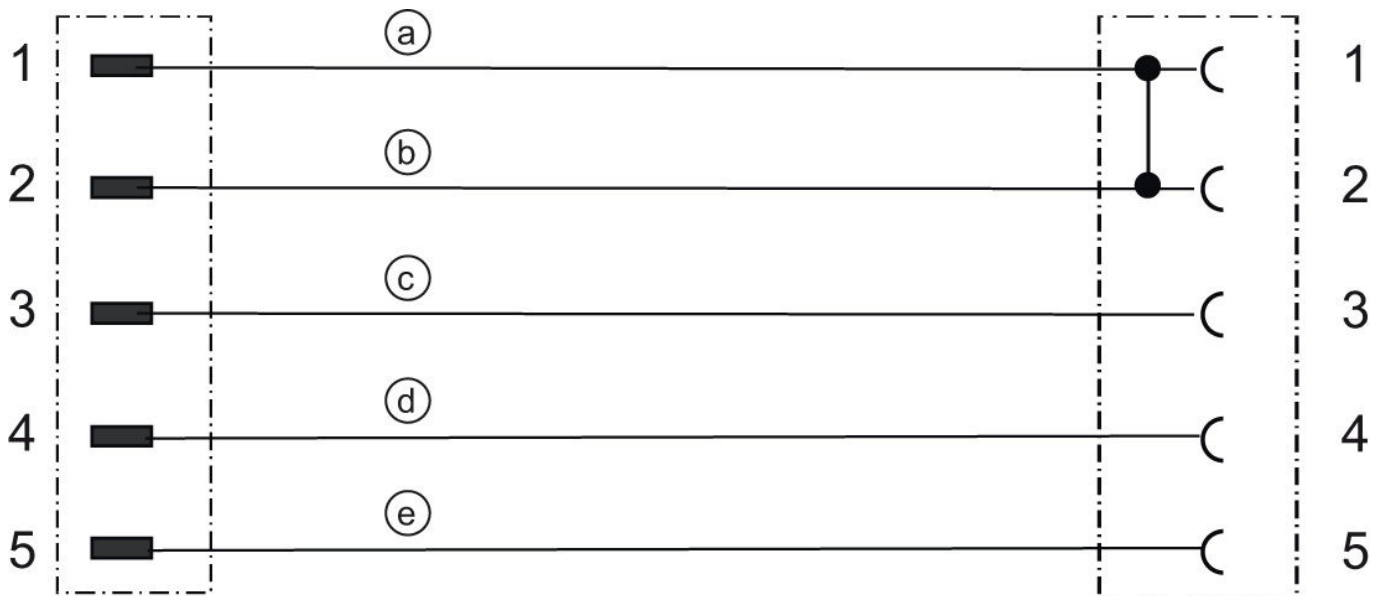


Connection 2	
Type of connection	Connector
Thread size	M12
Type	Male
Handle body material	
No. of pins	5 -pin
Encoding	A-coded
Design	Axial
Lock	



## Circuit diagrams


### Wiring schematic



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

## Accessories

### General

	Part no.	Designation	Article	Description
	50132266	TT-Set 0,6-13	Tool	Type: Torque key Width across flats: 13 mm Torque: 0.6 N·m Material: Plastic, Stainless steel Ambient temperature: -40 ... 120 °C