

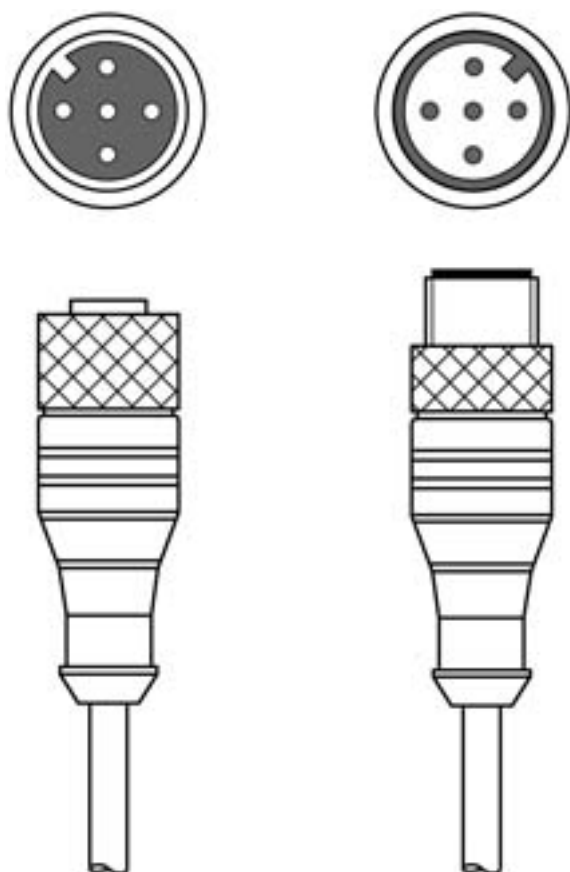
## Technical data sheet Interconnection cable

Part no.: 50138186

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

### Contents

- Technical data
- Electrical connection
- Circuit diagrams



For illustration purposes only



## Technical data

### Basic data

Application	Oil and lubricant resistant
-------------	-----------------------------

### Special version

Special version	SmartCore
-----------------	-----------

### Connection

#### Connection 1

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

#### 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 <sup>2</sup>
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 <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)

### Mechanical data

Width across flats	13 mm
Net weight	928 g
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

### Operation and display

#### 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
Approvals	c UL US
UL file number	E366145

#### Classification

Customs tariff number	85444290
ECLASS 5.1.4	27279201
ECLASS 8.0	27279218
ECLASS 9.0	27060311
ECLASS 10.0	27060311
ECLASS 11.0	27060311
ECLASS 12.0	27060311
ECLASS 13.0	27060311
ECLASS 14.0	27060311
ECLASS 15.0	27060311
ECLASS 16.0	27060311
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855
ETIM 8.0	EC001855
ETIM 9.0	EC001855
ETIM 10.0	EC001855
UNSPSC 26.08	26121604

# Electrical connection

## Connection 1

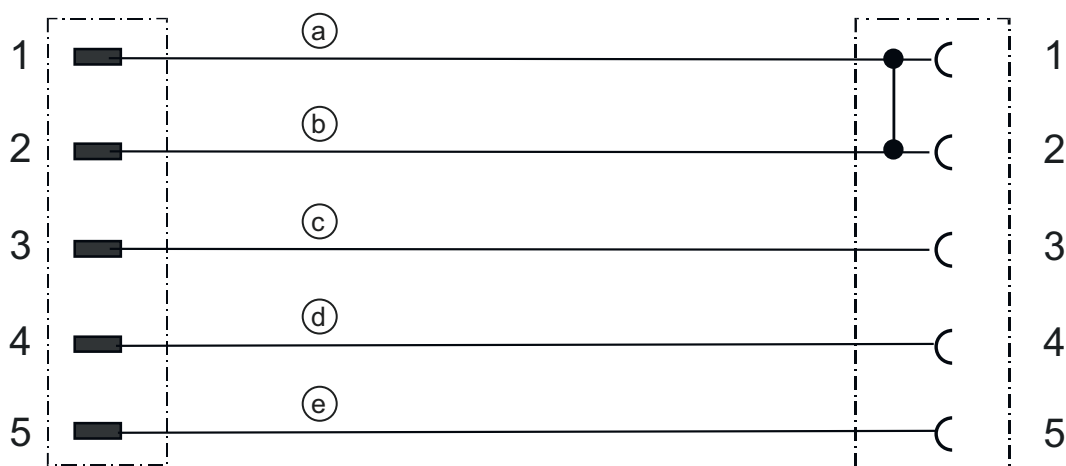
Type of connection	Connector
Bridged	Pin 1 <-> Pin 2
Thread size	M12
Type	Female
No. of pins	5 -pin
Encoding	A-coded
Version	Axial
Connector, LED	No

## 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