

## Technical data sheet

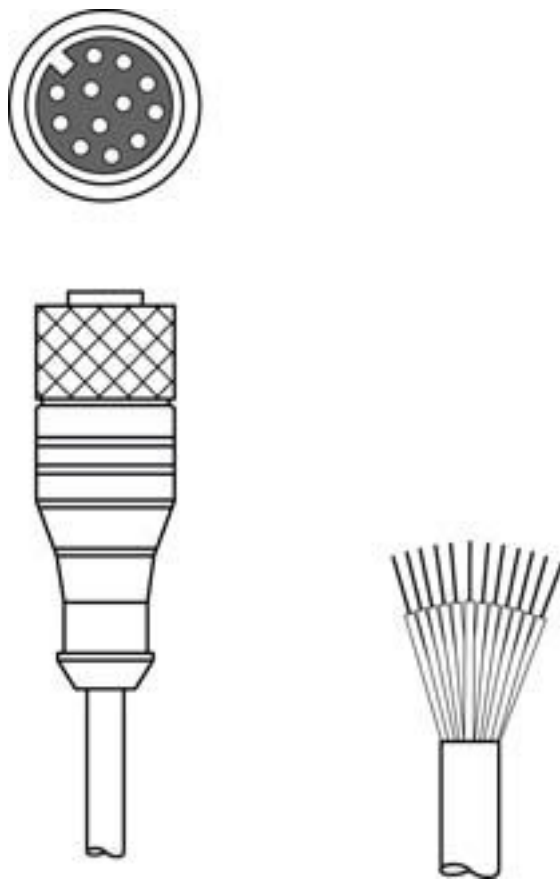
### Connection cable

Part no.: 50130281

KD S-M12-CA-P1-020

#### Contents

- Technical data
- Electrical connection
- Circuit diagrams



For illustration purposes only



## Technical data

### Basic data

Application	Oil and lubricant resistant
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### Electrical data

#### Performance data

Operating voltage	Max. 30 V AC/DC
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### Connection

#### Connection 1

Type of connection	Connector
Thread size	M12
Type	Female
Handle body material	PUR
No. of pins	12 -pin
Encoding	A-coded
Version	Axial
Connector, LED	No
Lock	Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking

#### Connection 2

Type of connection	Open end
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#### Cable properties

Number of conductors	12 Piece(s)
Wire cross section	0.14 mm <sup>2</sup>
AWG	26
Sheathing color	Black
Shielded	Yes
Silicone-free	Yes
Cable design	Connection cable (open on one end)
Cable diameter (external)	6.5 mm
Cable length	2,000 mm
Sheathing material	PUR
Wire insulation	PP
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, 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

### 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

### 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
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855
ETIM 8.0	EC001855
ETIM 9.0	EC001855

## Electrical connection

### Connection 1

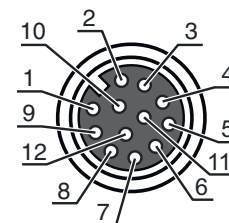
Type of connection	Connector
Thread size	M12
Type	Female
Handle body material	PUR

# Electrical connection

## Connection 1

No. of pins	12 -pin
Encoding	A-coded
Version	Axial
Connector, LED	No
Lock	Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking

Pin	Conductor color
1	Brown
2	Blue
3	White
4	Green
5	Pink
6	Yellow
7	Black
8	Gray
9	Red
10	Violet
11	Gray / Pink
12	Blue / Red



## Connection 2

Type of connection	Open end
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# Circuit diagrams

## Wiring schematic

