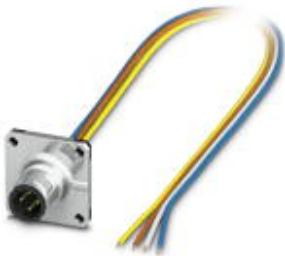


## Flush-type connector - SACC-SQ-M12MSD-4CON-25F/0,5 - 1440957

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Sensor/actuator flush-type plug, 4-pos., M12, D-coded, front/square flange mounting, with 0.5 m TPE litz wire, 4 x 0.34 mm<sup>2</sup>

### Why buy this product

- 4 x fixing hole, 2.7 mm
- With form seal for M2.5 screws
- Pre-assembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission safety: shield connection to the housing with optional EMC nut
- SPEEDCON fast locking system reduces cabling times



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 533799
GTIN	4046356533799
Weight per Piece (excluding packing)	22.900 g
Custom tariff number	85444290
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

Length of cable	0.5 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)

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## Technical data

### Ambient conditions

Degree of protection	IP67
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### General

Note	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Rated current at 40°C	4 A
Rated voltage	250 V
Rated surge voltage	2.5 kV
Number of positions	4
Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	D - data
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Individual wires
Insertion/withdrawal cycles	> 100
Torque	3 Nm ... 4 Nm (Installation-side)
Mounting type	Front mounting Square flange

### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	FKM

### Cable

Cable type	TPE litz wire
Conductor cross section	0.34 mm <sup>2</sup>
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	1.2 mm $\pm 0.07$ mm
Thickness, insulation	0.21 mm
Wire colors	Yellow, orange, white, blue
Material conductor insulation	TPE
Conductor material	Tin-plated Cu litz wires
Standards/specifications	M12 connector IEC 61076-2-101
Insulation resistance	$\geq 20 \text{ M}\Omega \cdot \text{km}$

## Flush-type connector - SACC-SQ-M12MSD-4CON-25F/0,5 - 1440957

### Technical data

#### Cable

Conductor resistance	$\leq 57.6 \text{ m}\Omega/\text{m}$
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (cable, flexible installation)

#### Standards and Regulations

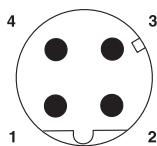
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

#### Environmental Product Compliance

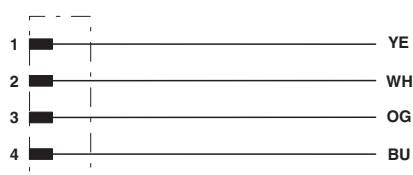
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

Schematic diagram



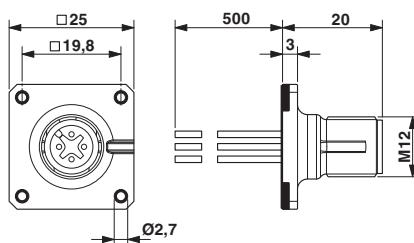
Circuit diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

Contact assignment of the M12 plug and the M12 socket

Dimensional drawing



M12 flush-type plug

### Classifications

eCl@ss

eCl@ss 4.0	27140815
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## Flush-type connector - SACC-SQ-M12MSD-4CON-25F/0,5 - 1440957

### Classifications

#### eCl@ss

eCl@ss 4.1	27140815
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27279220
eCl@ss 7.0	27440103
eCl@ss 8.0	27440103
eCl@ss 9.0	27440102

#### ETIM

ETIM 2.0	EC001297
ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002061
ETIM 6.0	EC002061

#### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	39121413

### Approvals

#### Approvals

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#### Approvals

cULus Recognized / UL Recognized / EAC

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#### Ex Approvals

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#### Approval details

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> E221474-20140616
mm <sup>2</sup> /AWG/kcmil		22-20
Nominal current IN		4 A
Nominal voltage UN		250 V

## Flush-type connector - SACC-SQ-M12MSD-4CON-25F/0,5 - 1440957

### Approvals

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
mm <sup>2</sup> /AWG/kcmil		26-20	
Nominal current IN		4 A	
Nominal voltage UN		250 V	

EAC		B.00767
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### Accessories

#### Accessories

##### Protective cap

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

Sealing cap - PROT-M12 FS-M - 1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field