

Flush-type connector - SACC-SQ-M12MS-8CON-25F/0,5 - 1441561

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Sensor/Actuator flush-type plug, 8-pos., M12, A-coded, front/square flange mounting, with 0.5 m TPE litz wire, 8 x 0.25 mm²

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	
GTIN	4046356533874

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)
Degree of protection	IP67

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
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Technical data

General

	a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Rated current at 40°C	2 A
Rated voltage	30 V
Rated surge voltage	0.8 kV
Number of positions	8
Insulation resistance	≥ 100 MΩ
Coding	A - standard
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 6.6
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	0.25 mm ²
AWG signal line	24
Conductor structure signal line	14x 0.15 mm
Core diameter including insulation	1.15 mm ±0.07 mm
Thickness, insulation	0.21 mm (Core insulation)
Wire colors	Brown, blue, white, gray, pink, green, yellow, red
Material conductor insulation	TPE
Conductor material	Tin-plated Cu litz wires
Standards/specifications	M12 connector IEC 61076-2-101
Insulation resistance	≥ 20 MΩ*km
Conductor resistance	≤ 80 mΩ/m
Nominal voltage, cable	300 V
Test voltage, cable	3000 V AC (Spark test)
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)

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Technical data

Cable

	-25 °C ... 85 °C (cable, flexible installation)
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Standards and Regulations

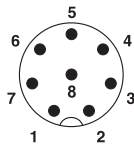
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

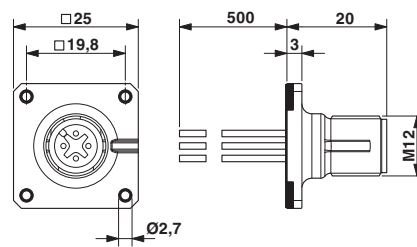
Drawings

Schematic diagram



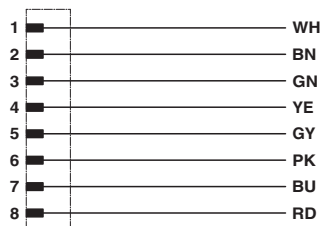
Pin assignment M12 plug, 8-pos., view plug side

Dimensional drawing



M12 flush-type plug

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

Approvals

Approvals

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Approvals


Approvals

cULus Recognized / UL Recognized / EAC

Ex Approvals

Approval details

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E221474-20140616
Nominal voltage UN	30 V	
Nominal current IN	2 A	
mm ² /AWG/kcmil	24-22	

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 118976
Nominal voltage UN	30 V	
Nominal current IN	2 A	
mm ² /AWG/kcmil	24	

EAC		B.00767
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