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Sensor/actuator flush-type socket, 12-pos., M12 SPEEDCON, rear/screw mounting with Pg9 thread, with  $0.5 \, \text{m}$  halogen-free TPE litz wire,  $12 \, \text{x} \, 0.14 \, \text{mm}^2$ 



## **Key Commercial Data**

Packing unit	1 STK
GTIN	4 046356 325806

### Technical data

## Dimensions

Length of cable	0.5 m

### Ambient conditions

Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
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 a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Rated current at 40°C	1.5 A
Rated voltage	30 V
Rated surge voltage	0.8 kV
Number of positions	12
Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Overvoltage category	П



## Technical data

## General

Degree of pollution	3
Connection method	Individual wires
Insertion/withdrawal cycles	> 100
Torque	3 Nm 4 Nm (Installation-side)
Mounting type	Rear mounting Pg9 With flat nut

### Material

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

### Cable

Cable type	TPE litz wire
Conductor cross section	0.14 mm²
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	1.1 mm ±0.05 mm
Thickness, insulation	0.21 mm
Wire colors	Brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue
Material conductor insulation	TPE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 20 MΩ*km
Conductor resistance	≤ 57.6 mΩ/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

## Classifications

## eCl@ss

eCl@ss 4.0	27250313
eCl@ss 4.1	27250313
eCl@ss 5.0	27143423



## Classifications

## eCl@ss

eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001
eCl@ss 8.0	27440103

### **ETIM**

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002061

### **UNSPSC**

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

## Approvals

### Approvals

Approvals

EAC / cULus Recognized

Ex Approvals

Approvals submitted

## Approval details

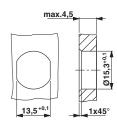
EAC

cULus Recognized		
mm²/AWG/kcmil	26	
Nominal current IN	1.5 A	
Nominal voltage UN	30 V	

**Drawings** 



#### Dimensional drawing



#### Dimensional drawing



Housing cutout for Pg9 fastening thread, mounting panel with thread

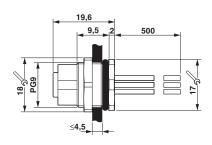
Housing cutout for Pg9 fastening thread, mounting panel with feedthrough hole (alternatively with surface as protection against rotation)

#### Schematic diagram



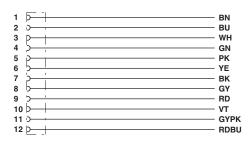
Pin assignment M12, 12-pos., female side view

#### Dimensional drawing



M12 flush-type connector

#### Circuit diagram



Contact assignment of the M12 socket

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Product	Code	Reference	Product link
Sensor/actuator flush-type socket, 12-pos., M12 SPEEDCON, rear/screw mounting with Pg9 thread, with 0.5 m halogen-free TPE litz wire, 12 x 0.14 mm²	1430446	SACC-DSI- FS-12CON- PG9/0,5 SCO	Buy on EAN