

# SACC-DSI-FSX-8CON-PG9-L180 SCO - Device connector rear mounting



1404741

<https://www.phoenixcontact.com/us/products/1404741>

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## Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission reliability: optional shield connection to the housing by means of shield contact

## Commercial data

Item number	1404741
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB26
Product key	ABQEHL
GTIN	4046356737029
Weight per piece (including packing)	15.752 g
Weight per piece (excluding packing)	14.775 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Notes on operation	The electrical and mechanical data specified assumes that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of pollution, the connector must be sealed using a protective cap >IP54. Influences arising from litz wires, cables, or PCB mounting must also be taken into consideration. Additional mechanical fixing of the PCB is required.
Order information:	Lock nut is included in the scope of delivery

### Mounting

Mounting type	Rear mounting (Pg9)
Tightening torque	2 Nm ... 3 Nm

### Product properties

Product type	Circular connectors (device side)
Application	Data
Sensor type	Ethernet
Number of positions	8
Shielded	yes
Coding	X
Thread type	M12

### Insulation characteristics

Ovvoltage category	III
Degree of pollution	3

### Dimensions

Length of the solder pin	6 mm
	6 mm

### Material specifications

Material Housing	GD-Zn
Material Housing surface	Ni
Material Insulating body	PPA
Material Contact	CuZn
Material Contact surface	Au
Material Seal	FKM
Flammability rating according to UL 94	V0

### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$

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Insulation resistance	> 100 MΩ
Nominal voltage $U_N$	50 V AC
	60 V DC
Nominal current $I_N$	0.5 A (Data)
Transmission speed	10 Gbps
Transmission characteristics (category)	CAT6 <sub>A</sub>

## Connection data

Conductor connection	
Connection method	Wave soldering
Contact connection type	Socket
Tightening torque	2 Nm ... 3 Nm

## Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100

## Connector

Connection 1	
Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	X

## Cable/line

Signal type/category	Ethernet CAT6 <sub>A</sub> , 10 Gbps
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## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP67 (When plugged in)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-109
Standard designation	Shock, vibration
Standards/specifications	according to EN 50155
Standard designation	Shock, vibration
Standards/specifications	according to EN 61373:2011

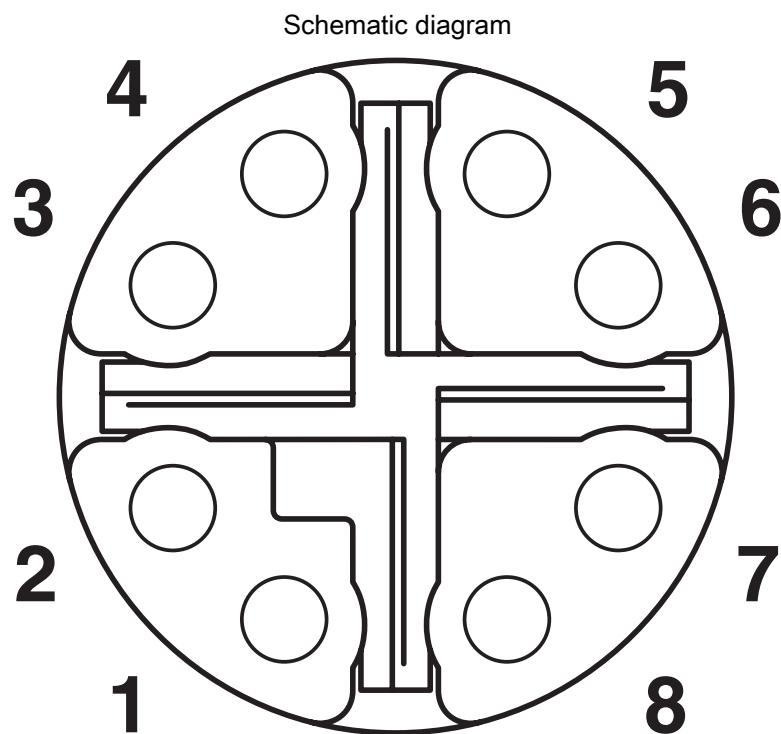
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## Drawings



M12 socket pin assignment, 8-pos, view of socket side

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## Approvals

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cUL Recognized		Approval ID: E335024-20120308			
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		60 V	0.5 A	-	-

UL Recognized		Approval ID: E335024-20120308			
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## Classifications

### ECLASS

ECLASS-13.0	27440110
ECLASS-15.0	27440110

### ETIM

ETIM 9.0	EC003568
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50  An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
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### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	b720dd2e-e3ac-46c1-b1fd-36d4e51c5d3c

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