SACC-DSI-FSX-8CON-M16-L180 SCO - Device connector rear mounting

1424177

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Device connector rear mounting, Ethernet CAT6$_A$ (10 Gbps) CAT6$_A$, 8-position, Socket, straight-SPEEDCON, coding: X, Rear mounting, M16 x 1.5, Solder pins, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237405

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	1424177
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB26
Product key	ABQEHB
Catalog page	Page 91 (C-2-2013)
GTIN	4046356692656
Weight per piece (including packing)	16.65 g
Weight per piece (excluding packing)	16.62 g
Customs tariff number	85366990
Country of origin	DE

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 M16 x 1.5

Product properties

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

Data management status

Article revision	09

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Length of the solder pin	6 mm
	6 mm

Material specifications

Material	Zinc die-cast (nickel-plated)
Flammability rating according to UL 94	V0
Seal material	FKM
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuZn
Contact surface material	gold-plated
Contact carrier material	PPA
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	0.5 A (Data)
Transmission characteristics (category)	$CAT6_A$

Connection data

Conductor connection

Connection method	Solder pins
Contact connection type	Socket
Tightening torque	2 Nm ... 3 Nm (Installation-side)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head locking type	SPEEDCON
Coding	X

Cable/line

Signal type/category	Ethernet $CAT6_A$, 10 Gbps

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (When plugged in)
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)

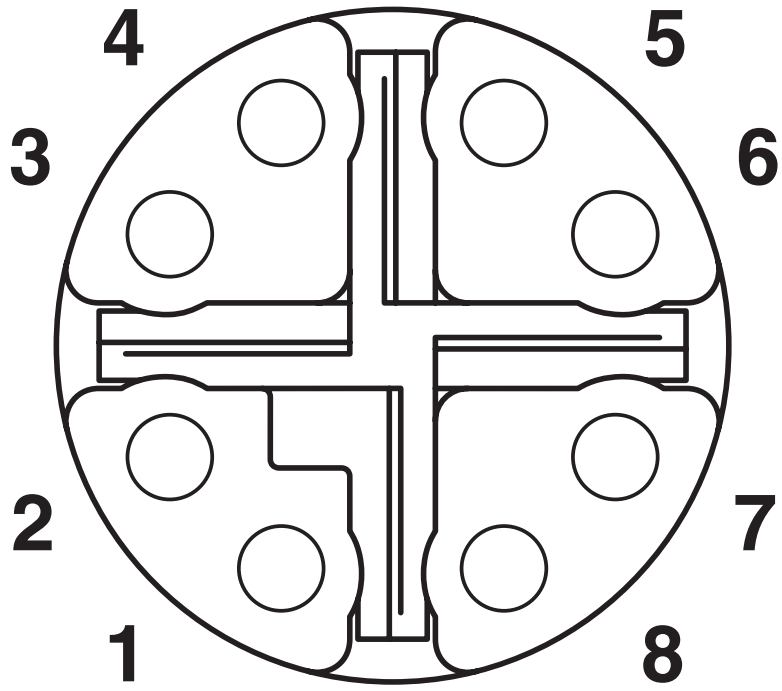
Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-109
Standard designation	Shock, vibration
Standards/specifications	EN 50155

Drawings

Schematic diagram



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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1424177

cUL Recognized
Approval ID: E335024-20120308

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	0.5 A	-	-

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cULus Recognized

Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	635c5b25-2d21-45ea-8e5e-ac02b3954907

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