SACC-CI-M12FSX-8CON-L90 - Contact carrier

1424180

https://www.phoenixcontact.com/us/products/1424180

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Contact carrier, Ethernet CAT6$_A$ (10 Gbps), 8-position, Socket, angled, M12, X-coding, Wave soldering, this item is expected to be lead-free from Q3 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Your advantages

- Reduced mounting costs thanks to two-piece device connector
- All common pin assignments and codings available
- Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate

Commercial data

Item number	1424180
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB23
Product key	ABQAHS
GTIN	4046356692663
Weight per piece (including packing)	6.865 g
Weight per piece (excluding packing)	6.87 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Notes on operation	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.

Product properties

Product type	Contact insert
Application	Data
Number of positions	8
Seal present	no
Shielded	yes
Coding	X
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	< 3 mΩ
Insulation resistance	> 100 MΩ
Nominal voltage U_N	50 V AC (Data)
	60 V DC
Nominal current I_N	0.5 A (Data)
Transmission speed	10 Gbps
Transmission characteristics (category)	$CAT6_A$

Connection data

Connection method	Wave soldering

Interfaces

Signal type/category	Ethernet $CAT6_A$, 10 Gbps

Material specifications

Material Contact carrier	PA 6T/66
Material Contact	Copper alloy
Material Contact surface	Au
Flammability rating according to UL 94	V0

Connector

Connection 1

Head design	Socket
Head cable outlet	angled
Head thread type	M12
Coding	X

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (When plugged in)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 95 °C
Ambient temperature (operation)	-40 °C ... 105 °C (without mechanical actuation)
	-25 °C ... 105 °C (Cable, flexible installation)
	-40 °C ... 105 °C (cable, fixed installation)
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

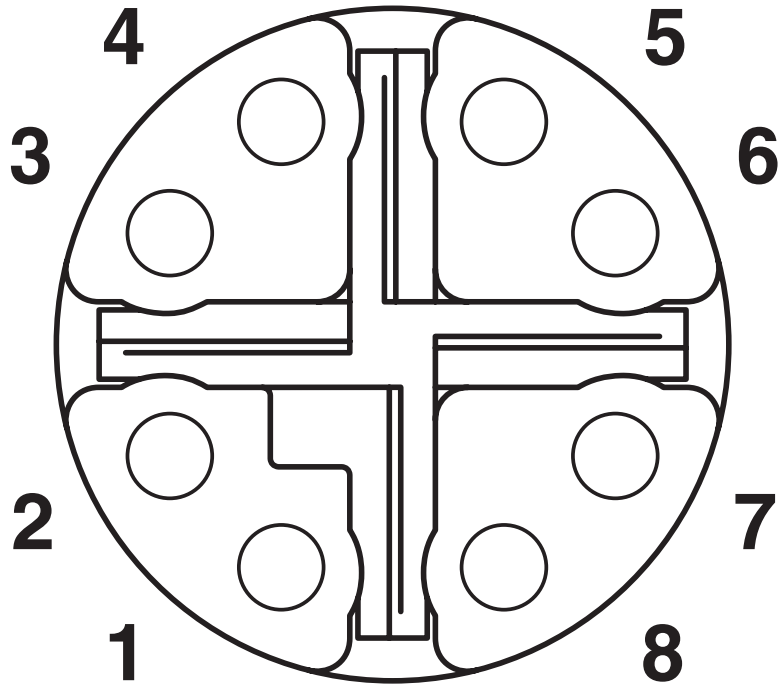
Mounting

Processing notes

Process	Wave soldering

Drawings

Schematic diagram



Pin assignment M12 connector, 8-pos., view socket side

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1424180

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	-	-

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Classifications

ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

ETIM

ETIM 10.0	EC003557

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	fa4a0fc9-4b6e-4255-89bb-4c0db9e5f819

EF3.1 Climate Change

CO2e kg	0.548 kg CO2e

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