

# SACC-CI-M12FSX-8CON-L180-THR - Flush-type female connector



1410979

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Flush-type female connector, Ethernet CAT6<sub>A</sub>, 8-position, Socket, straight, M12, coding: X, PCB mounting, THR solder connection

## Your advantages

- Reduced mounting costs thanks to two-piece device connector
- Packaging available for automated pick and place assembly
- 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	1410979
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB23
Product key	ABQAGS
GTIN	4046356953641
Weight per piece (including packing)	4.676 g
Weight per piece (excluding packing)	4 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 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.
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### Product properties

Product type	Contact insert
Application	Data
Sensor type	Ethernet
Number of positions	8
Shielded	yes
Coding	X

### Data management status

Article revision	03
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### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	< 5 mΩ
Insulation resistance	> 100 MΩ
Nominal voltage $U_N$	50 V AC 60 V DC
Nominal current $I_N$	0.5 A
Transmission characteristics (category)	CAT6 <sub>A</sub>

### Connection data

Connection method	THR solder connection
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### Interfaces

Signal type/category	Ethernet CAT6 <sub>A</sub>
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### Material specifications

Material	Zinc die-cast, nickel-plated
Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au

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Contact carrier material	PPA
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## Connector

### Connection 1

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

## Cable/line

Signal type/category	Ethernet CAT6 <sub>A</sub>
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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67 (when plugged in)
	IP67, when plugged in
Ambient temperature (operation)	-40 °C ... 85 °C

## Standards and regulations

### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-109

## Mounting

Mounting type	PCB mounting
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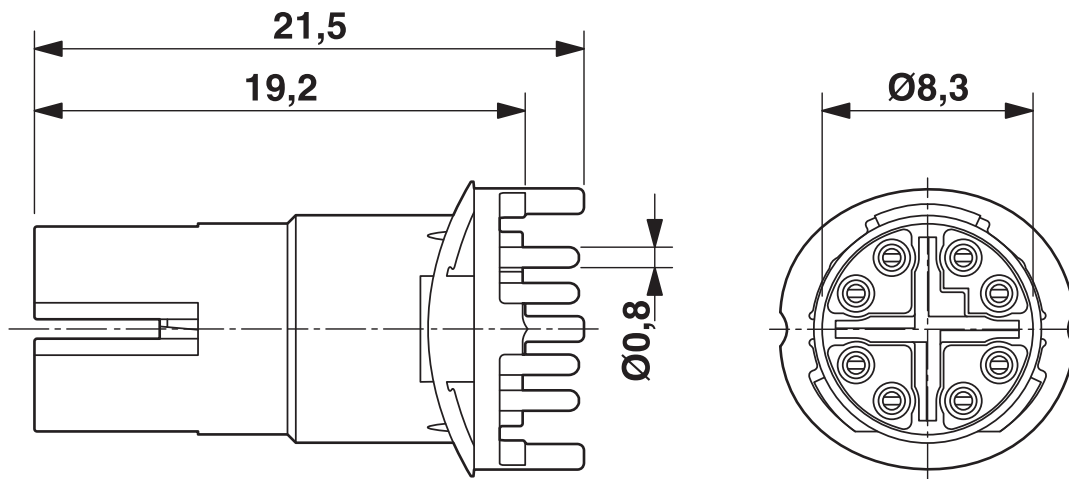


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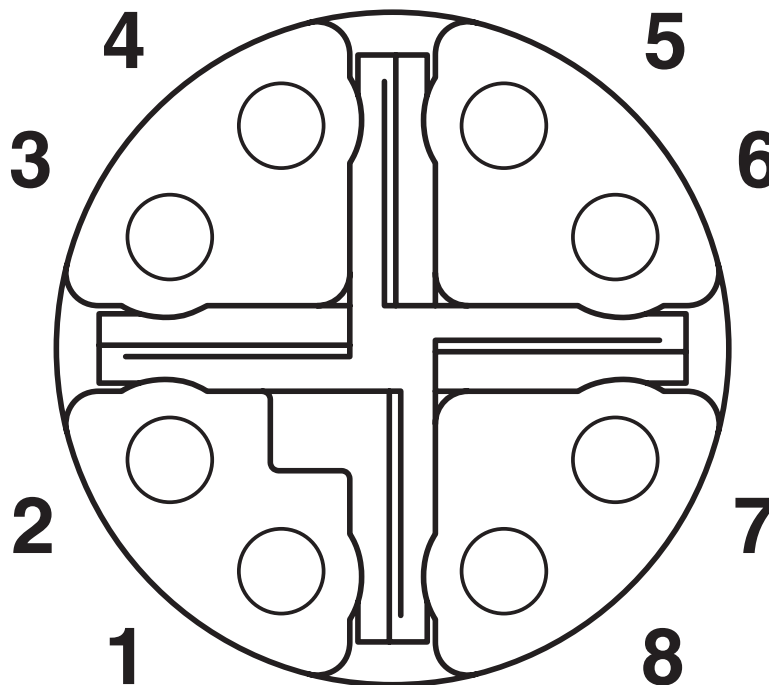
## Drawings

Dimensional drawing



M12 female connector contact carrier

Schematic diagram



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

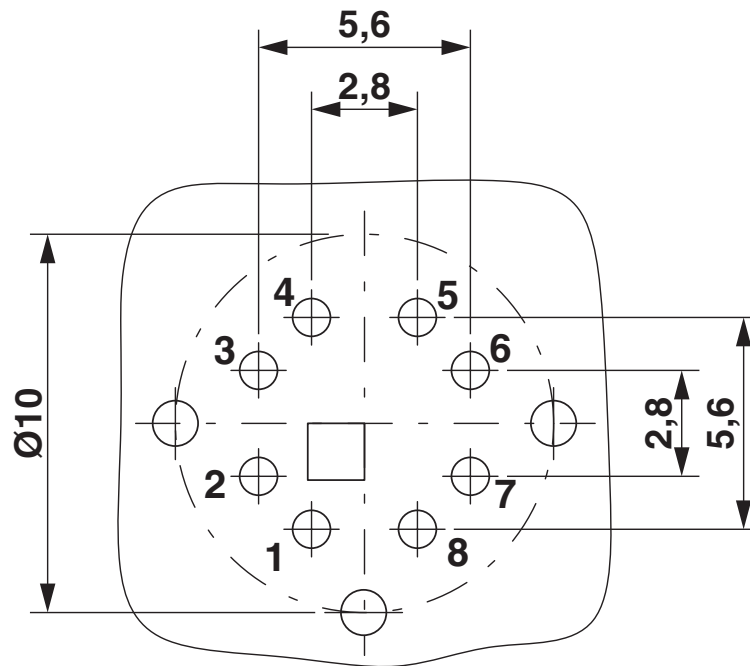
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Drilling plan/solder pad geometry



Soldering pad geometry


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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1410979>

 <b>cUL Recognized</b> Approval ID: E335024-20120308				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	60 V	0.5 A	-	-

 <b>UL Recognized</b> Approval ID: E335024-20120308				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
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<b>cULus Recognized</b>				
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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121413
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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.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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