

# SACC-CI-M12FSX-8P SMD SH-SP - Sample set



1418637

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M12 female contact carrier,  
straight

Sample set, Ethernet, 8-position, Socket, straight, M12, X-coding, SMD reflow, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Commercial data

Item number	1418637
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	AB23
Product key	ABQXAA
GTIN	4055626162904
Weight per piece (including packing)	9.85 g
Weight per piece (excluding packing)	4.011 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.
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### Product properties

Product type	Contact insert
Application	Data
Number of positions	8
Shielded	yes
Coding	X
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$> 100 \text{ M}\Omega$
Nominal voltage $U_N$	50 V AC
	60 V DC
Nominal current $I_N$	0.5 A (Data)
Transmission characteristics (category)	CAT6 <sub>A</sub>

### Connection data

Connection method	SMD reflow
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### Interfaces

Signal type/category	Ethernet
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### Material specifications

Material	Die-cast zinc, nickel-plated (Shield crossover)
Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA

### Connector

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## Connection 1

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

## Cable/line

Signal type/category	Ethernet
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## Mechanical properties

### Mechanical data

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

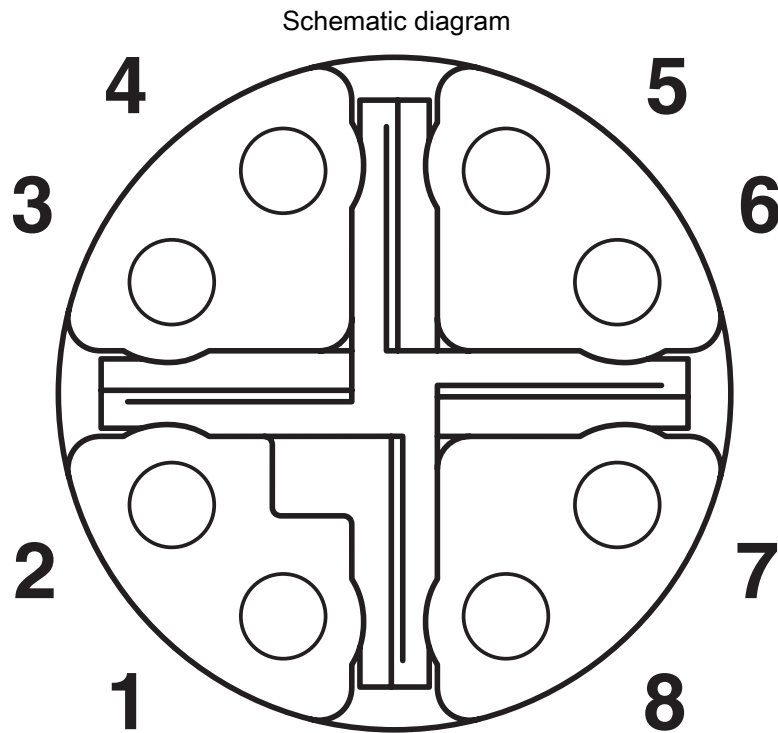
### Ambient conditions

Degree of protection	IP67 (correctly plugged in and locked)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 105 °C
	-55 °C ... 105 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

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

Drawings



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418637>

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

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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