

# SACC-CI-M12FS-8CON-L180-10G - Contact carrier



1402457

<https://www.phoenixcontact.com/us/products/1402457>

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Contact carrier, Ethernet CAT6<sub>A</sub>, 8-position, Socket, straight, M12, X-coding, THR solder connection, this item is expected to be lead-free from Q2 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
- 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
- Compatible with connectors with screw or push-in connection

## Commercial data

Item number	1402457
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB23
Product key	ABQAGS
GTIN	4046356615907
Weight per piece (including packing)	4.7 g
Weight per piece (excluding packing)	3.049 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
Sensor type	Ethernet
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	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 Contact carrier	PPA
Material Contact	Copper alloy
Material Contact surface	Au
Flammability rating according to UL 94	V0

### 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 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 (correctly plugged in and locked)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 95 °C

## Standards and regulations

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

## Packaging specifications

Type of packaging	Blister
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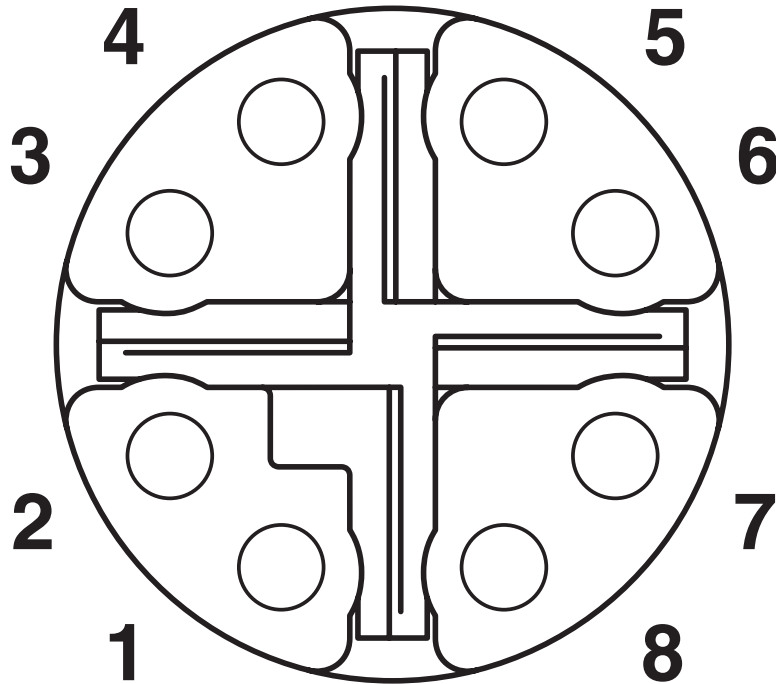


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## Drawings

Schematic diagram



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/1402457>

 <b>cUL Recognized</b> 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	-	-

 <b>UL Recognized</b> Approval ID: E335024-20120308				
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	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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