

# SACC-CI-M12FSY-8CON-L180 TOR32 - Contact carrier



1413445

<https://www.phoenixcontact.com/us/products/1413445>

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M12 female contact carrier,  
straight

Contact carrier, Ethernet CAT5 (IEC 11801:2002), 8-position, Socket, straight, M12, Y-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

## Commercial data

Item number	1413445
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AB23
Product key	ABQAGT
GTIN	4046356999076
Weight per piece (including packing)	7.479 g
Weight per piece (excluding packing)	3.421 g
Customs tariff number	85366930
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, signals
Number of positions	8
No. of power contacts	4
Seal present	no
Shielded	yes
Coding	Y
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	100 M $\Omega$
Nominal voltage $U_N$	48 V AC (Power and data)
	50 V DC (Power and data)
Nominal current $I_N$	0.5 A (Data)
	6 A (Power)
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

### Connection data

Connection method	THR solder connection
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### Interfaces

Signal type/category	Ethernet CAT5 (IEC 11801:2002)
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### Dimensions

Length of the solder pin	2.3 mm
	2.3 mm

### Material specifications

Material Contact carrier	PPA
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Material Contact	CuZn
Material Contact surface	Au
Flammability rating according to UL 94	V0

## Connector

### Connection 1

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

## Cable/line

Signal type/category	Ethernet CAT5 (IEC 11801:2002)
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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 ... 90 °C
UL Type Rating	Type 4 (indoor use only)

## Packaging specifications

Type of packaging	Belt
Delivery state	with assembly pad

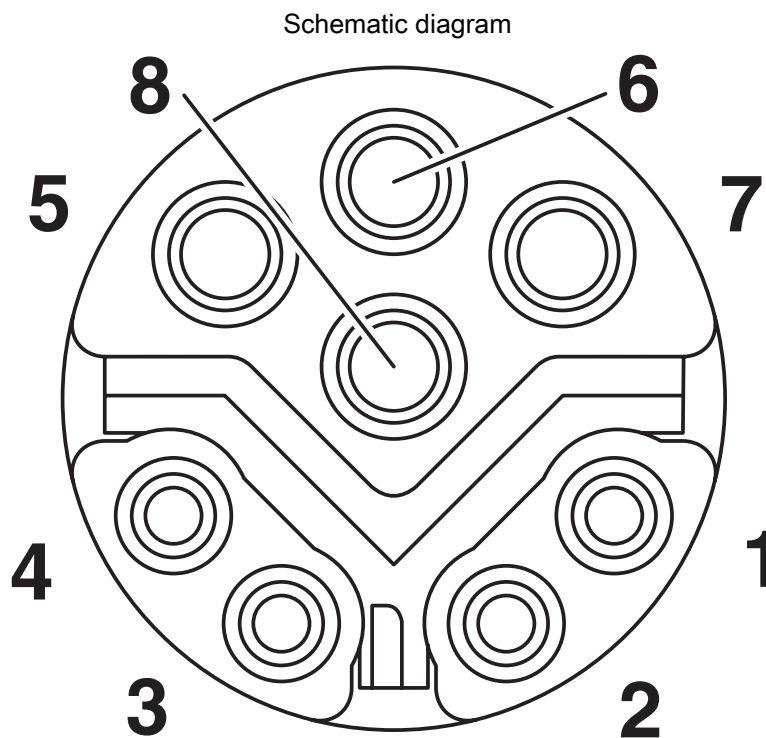
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## Drawings



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

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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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