

# SACC-CI-M12FSY-8P SMD SH T - Contact carrier



1411965

<https://www.phoenixcontact.com/us/products/1411965>

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Contact carrier, Universal CAT5 (IEC 11801:2002), 8-position, Socket, straight, M12, Y-coding, SMD reflow, this item is expected to be lead-free from Q1 2027 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	1411965
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQBGG
GTIN	4046356991629
Weight per piece (including packing)	4.596 g
Weight per piece (excluding packing)	3.988 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, signals
Sensor type	Universal
Number of positions	8
Seal present	no
Shielded	yes
Coding	Y
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$> 100 \text{ M}\Omega$
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	SMD reflow
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### Interfaces

Signal type/category	Universal CAT5 (IEC 11801:2002)
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### Material specifications

Material Contact carrier	PA
Material Contact	CuZn
Material Contact surface	Au
Material Shield crossover	GD-Zn (nickel-plated)

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Flammability rating according to UL 94	V0
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## Connector

### Connection 1

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

## Cable/line

Signal type/category	Universal 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)	-25 °C ... 105 °C (Plug / socket)
	-55 °C ... 105 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

## Packaging specifications

Type of packaging	Tray
Delivery state	with assembly pad

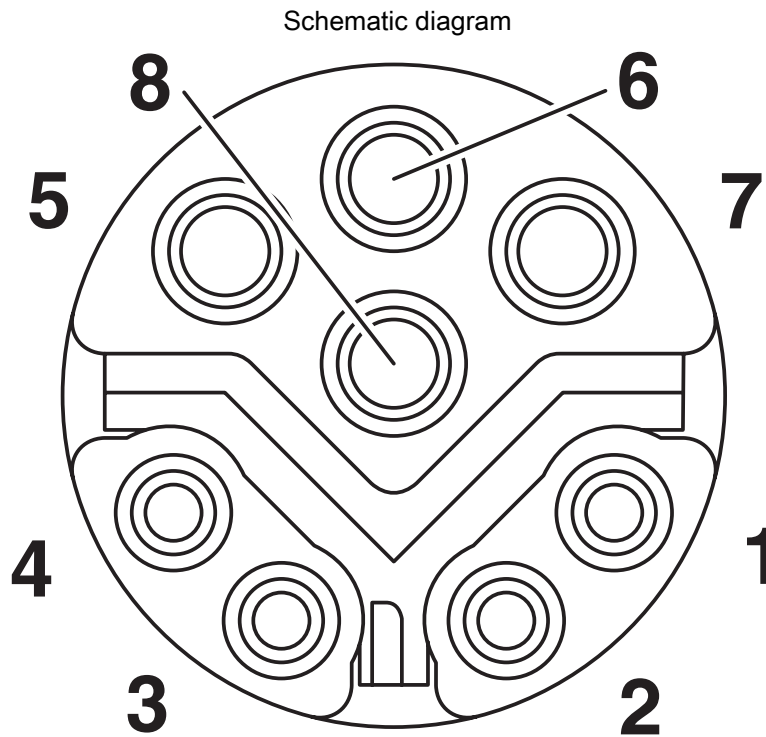
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## Drawings



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

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## Approvals

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 <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				
Power	56 V	0.175 A	-	-
Data	30 V	0.5 A	-	-

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

### ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

### ETIM

ETIM 9.0	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
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	f232393f-12d1-4242-a210-a1c1eff5d47c

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