

# SACC-CI-M12FSY-8P SMD SH-SP - Sample set



1418638

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M12 female contact carrier,  
straight

Sample set, Universal, 8-position, Socket, straight, M12, Y-coding, SMD reflow, 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

## Commercial data

Item number	1418638
Packing unit	5 pc
Minimum order quantity	5 pc
Product key	ABQXAA
GTIN	4055626162928
Weight per piece (including packing)	10.2 g
Weight per piece (excluding packing)	3.988 g
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	Hybrid
Number of positions	8
No. of power contacts	4
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	≤ 3 mΩ
Insulation resistance	> 100 MΩ
Nominal voltage $U_N$	30 V (Power and data)
Nominal current $I_N$	0.5 A (Data)
	6 A (Power)
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

### Connection data

Connection method	SMD reflow
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### Interfaces

Signal type/category	Universal
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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	Y

## Cable/line

Signal type/category	Universal
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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)

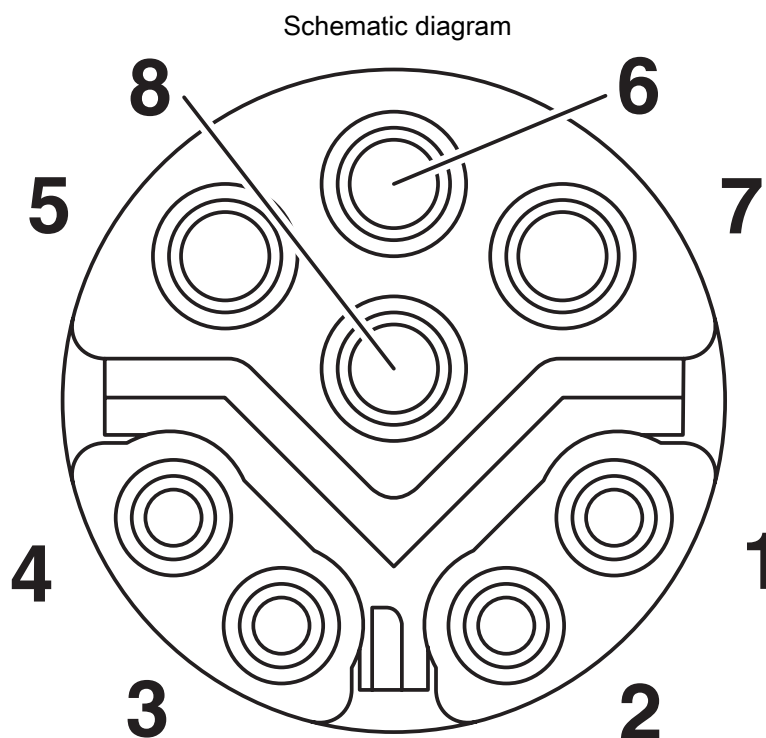
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## Drawings



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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