

SACC-CI-M12FSY-8CON-L180THR SP - Sample set



1420414

<https://www.phoenixcontact.com/us/products/1420414>

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M12 female contact carrier,
straight

Sample set, 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

Commercial data

Item number	1420414
Packing unit	5 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Product key	ABQAGS
GTIN	4055626224305
Weight per piece (including packing)	8.08 g
Weight per piece (excluding packing)	3.141 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	THR solder connection
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Dimensions

Length of the solder pin	2.3 mm
	2.3 mm

Material specifications

Material (Shield crossover)	GD-Zn
Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PPA

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Connector

Connection 1

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

Mechanical properties

Mechanical data

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

Ambient conditions

Degree of protection	IP67 (When plugged in)
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 90 °C
UL Type Rating	Type 4 (indoor use only)

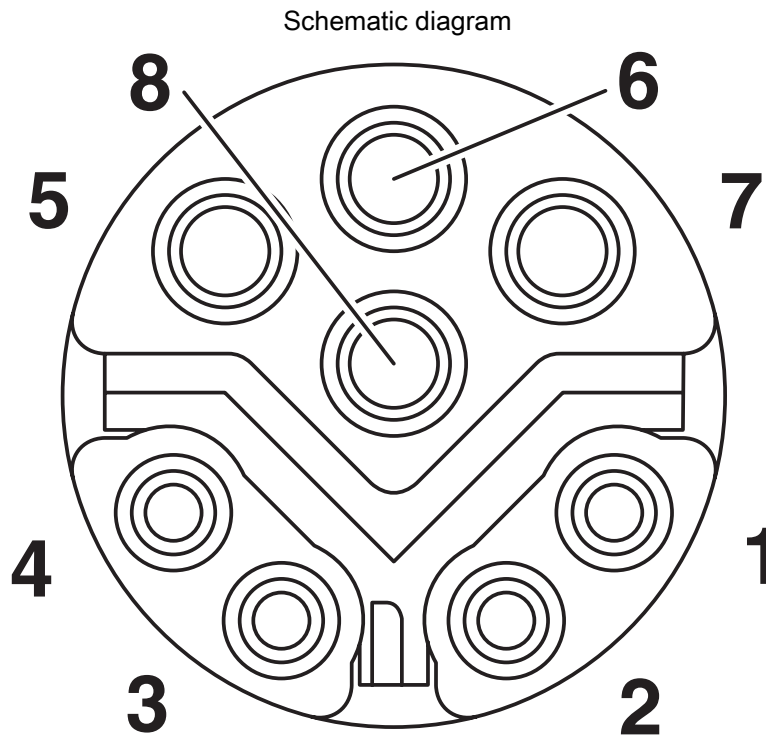
Mounting

Mounting type	Rear mounting
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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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