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

1411965

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M12 female contact carrier, straight

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.

Product properties

Product type	Contact insert
Application	Data
	Signal
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

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 100 MΩ
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

Interfaces

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

Material specifications

Material Contact carrier	PA
Material Contact	CuZn
Material Contact surface	Au

Material Shield crossover	GD-Zn (nickel-plated)
Flammability rating according to UL 94	V0

Connector

Connection 1

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Environmental and real-life conditions

Ambient conditions

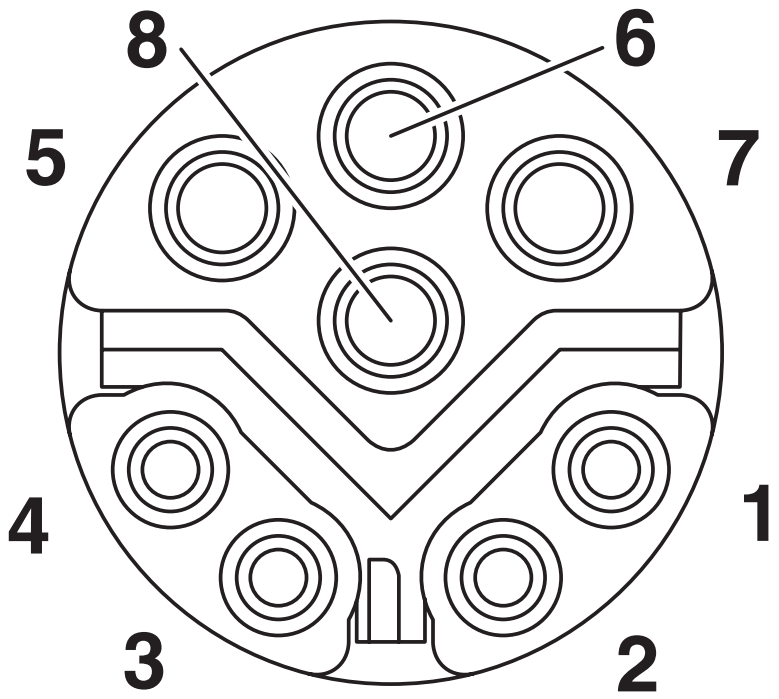
Degree of protection	IP67 (correctly plugged in and locked)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 105 °C
	-55 °C ... 105 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

Packaging specifications

Type of packaging	Tray
Delivery state	with assembly pad

Drawings

Schematic diagram



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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1411965

cUL Recognized
Approval ID: E335024-20120308

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	56 V	0.175 A	-	-
Data	30 V	0.5 A	-	-

UL Recognized
Approval ID: E335024-20120308

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	56 V	0.175 A	-	-
Data	30 V	0.5 A	-	-

cULus Recognized
Approval ID: E221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	30 V	6 A	-	-
Signal	30 V	0.5 A	-	-

Classifications

ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

ETIM

ETIM 10.0	EC003557

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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