

Flush-type connector - SACC-CI-M12MS-5CON-L90 SH SCO - 1439890

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid
(<http://phoenixcontact.com/download>)



Sensor/actuator flush-type connector, plug, 5-pos., A-coded, shielded, with angled solder connection, only contact insert



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	20 pc
Weight per Piece (excluding packing)	5.0 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
Degree of protection	IP67

General

Note	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.
Rated current at 40°C	4 A
Rated voltage	60 V
Rated surge voltage	1.5 kV
Number of positions	5
Insulation resistance	≥ 100 MΩ
Coding	A - standard

Flush-type connector - SACC-CI-M12MS-5CON-L90 SH SCO - 1439890

Technical data

General

Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Overvoltage category	II
Pollution degree	3
Connection method	Solder pins
Insertion/withdrawal cycles	> 100
Torque	3 Nm ... 4 Nm (Installation-side)
Mounting type	PCB mounting

Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 66
Sealing material	FKM / EPDM

Cable

Conductor cross section	0.34 mm ²
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	1.2 mm ±0.07 mm
Thickness, insulation	0.21 mm
Insulation resistance	≥ 20 MΩ*km
Conductor resistance	≤ 57.6 mΩ/m
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (cable, flexible installation)

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801

Flush-type connector - SACC-CI-M12MS-5CON-L90 SH SCO - 1439890

Classifications

eCl@ss

eCl@ss 5.1	27260701
eCl@ss 6.0	27279220
eCl@ss 7.0	27440103
eCl@ss 8.0	27440103

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002061

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

Approvals

Approvals


Approvals

UL Recognized / EAC

Ex Approvals

Approvals submitted

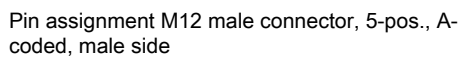
Approval details

UL Recognized 	
mm²/AWG/kcmil	26-20
Nominal current I _N	4 A

Approvals

EAC

Schematic diagram



Technical drawing of a mechanical part (Fig. 1.10) showing dimensions and tolerances. The part is a rectangular plate with a central hole and four corner holes. The dimensions are as follows:

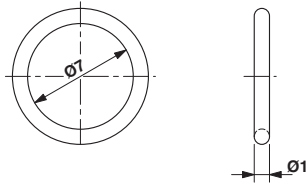
- Overall width: 15
- Overall height: 13.61
- Distance from top edge to center of top hole: 11.07
- Distance from bottom edge to center of bottom hole: 8.53
- Distance from left edge to center of left hole: 3.54
- Distance from right edge to center of right hole: 3.54
- Top hole diameter: $\varnothing 1.2^{+0.05}_{-0.05}$
- Bottom hole diameter: $\varnothing 1.2^{+0.05}_{-0.05}$
- Left hole diameter: $\varnothing 1.2^{+0.05}_{-0.05}$
- Right hole diameter: $\varnothing 1.2^{+0.05}_{-0.05}$
- Central hole diameter: $\varnothing 2.0^{+0.05}_{-0.05}$
- Distance from top edge to center of central hole: 5.8
- Distance from bottom edge to center of central hole: 5.8
- Distance from left edge to center of central hole: 5.8
- Distance from right edge to center of central hole: 5.8

[illegible]

M12 flush-type connector, plug, contact carrier, front view

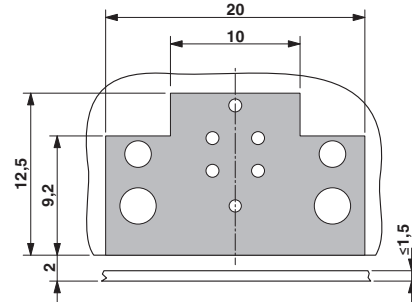
Flush-type connector - SACC-CI-M12MS-5CON-L90 SH SCO - 1439890

Dimensional drawing



Optionally with O-ring (green) for tight seal when plugged in.
- the axial mating force of 80 N per connector may not be exceeded when using with assembled O-ring!
- Avoid radial forces!

Dimensional drawing



Locked area on the PCB