

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	$\geq 100 \text{ M}\Omega$
Coding	A - standard



## 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 mm²
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	$\geq 20~\text{M}\Omega^*\text{km}$
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



## 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 <b>\$1</b>	
mm²/AWG/kcmil	26-20
Nominal current IN	4 A



# Approvals

Nominal voltage UN	60 V

EAC

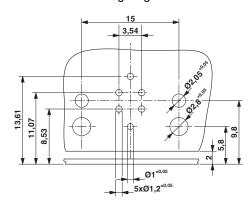
## **Drawings**

#### Schematic diagram



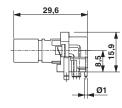
Pin assignment M12 male connector, 5-pos., A-coded, male side

### Drilling diagram



Drilling diagram only valid in connection with the SACC-M12-SCO PLUG L90 housing (order no. 1436709)

#### Dimensional drawing



#### Dimensional drawing

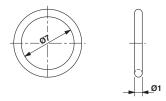


M12 flush-type connector, plug, contact carrier, side view

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

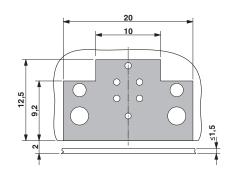


### Dimensional drawing



- 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

Phoenix Contact 2015 © - all rights reserved http://www.phoenixcontact.com