

# SACC-MINMS-5CON-PG16/2,5 - Connector



1456239

<https://www.phoenixcontact.com/us/products/1456239>

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Connector, Universal, 5-position, Plug straight 7/8"-16UNF, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg16, external cable diameter 12 mm ... 14 mm, Contact 3 capacitive

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Screw connection: proven connection technology for a large selection of different conductors

## Commercial data

Item number	1456239
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	AF2FAA
GTIN	4046356616867
Weight per piece (including packing)	63.64 g
Weight per piece (excluding packing)	63.64 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Assembly note	<b>NOTE:</b> Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.
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### Mounting

Assembly note	The wires can be connected both with ferrules and without ferrules
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### Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A
Pg screw connection	Pg16

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	27 mm
Height	27 mm
Length	90 mm

### External dimensions

Outside diameter	12 mm ... 14 mm
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### Housing

Diameter housing	27 mm
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### Material specifications

Flammability rating according to UL 94	HB
Material of grip body	PBT
Contact material	CuZn
Contact surface material	Au

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Contact carrier material	PUR/PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

## Connection data

### Conductor connection

Connection method	Screw connection
Connection cross section	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (without ferrule)
	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (with ferrule)
	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (solid)
Connection cross section AWG	22 ... 14 (without ferrule)
	22 ... 14 (with ferrule)
Stripping length of the individual wire	7 mm
Tightening torque	0.8 Nm (7/8" connectors)
	0.4 Nm (Screw terminal blocks)
	1 Nm ... 1.4 Nm (Pressure screw)

## Electrical properties

Rated surge voltage	4 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	300 V AC
	300 V DC
Nominal current I <sub>N</sub>	9 A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100
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## Connector

### Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	7/8"-16UNF
Coding	A

## Cable/line

Signal type/category	Universal
Stripping length of the individual wire	7 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female)	-25 °C ... 85 °C (Plug / socket)

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connector)

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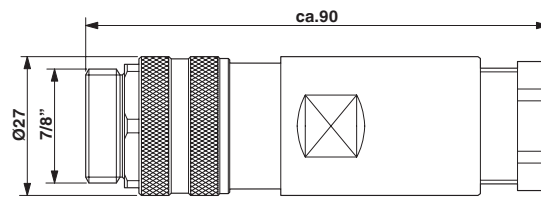


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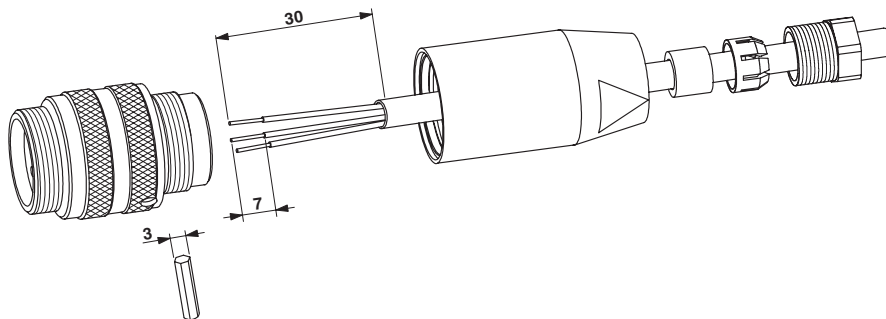
## Drawings

Dimensional drawing



7/8" connector, straight

Functional drawing



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Schematic diagram



Pin assignment, plug, 7/8"-16UNF, 5-pos., view of male side

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1456239>

 <b>cUL Recognized</b> Approval ID: FILE E 221474				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	16 A	-	-

 <b>UL Recognized</b> Approval ID: FILE E 221474				
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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 10.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	44d6f5ba-fe5d-411d-9007-6bf15450584c

### EF3.1 Climate Change

CO2e kg	2.479 kg CO2e
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