

# SACC-M12FRT-4CON-PG11-M - Power connector



1408989

<https://www.phoenixcontact.com/nz/products/1408989>

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Power connector, 4-position, unshielded, Socket angled M12, coding: T, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 mm, For direct current up to 12 A/63 V

## 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
- High-performance: DC connectors for up to 12 A and 63 V DC
- Protection against incorrect connection using special T-coding

## Commercial data

Item number	1408989
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF2CAB
Product key	BF2CAB
Catalog page	Page 184 (C-6-2019)
GTIN	4046356862394
Weight per piece (including packing)	29.4 g
Weight per piece (excluding packing)	27.57 g
Country of origin	DE

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## Technical data

### Notes

General	Strip 22 mm off the cable sheath, strip 7 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Length of conductor with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm.
General	<b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.

### Mounting

Assembly instructions	The connector pin assignment can be rotated 90° to the cable outlet
Connection method	Screw connection

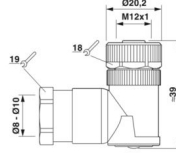
### Product properties

Product type	Circular connector (cable-side)
Number of positions	4
Application	Power supply
No. of cable outlets	1
Shielded	no
Coding	T
Cable outlet	angled
Pg screw connection	Pg11

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Length	39 mm
Wrench size, union nut	19 mm
External dimensions	
Outside diameter	8 mm ... 10 mm
Housing	
Diameter housing	20.2 mm

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## Material specifications

Flammability rating according to UL 94	V0
Seal material	Viton
	NBR
Material of grip body	PA
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

## Connection data

### Conductor connection

Connection method	Screw connection
Connection cross section	0.75 mm² ... 1.5 mm² (without ferrule)
	0.75 mm² ... 1.5 mm² (with ferrule)
	0.75 mm² ... 2.5 mm² (solid)
Connection cross section AWG	18 ... 14 (without ferrule)
	18 ... 16 (with ferrule)
Stripping length of the individual wire	5 mm
Tightening torque	0.4 Nm (M12 knurl)
	1.5 Nm ... 2 Nm (Pressure screw with sleeve housing)
	0.4 Nm (Screw plug insert with sleeve housing as far it will go)
	0.2 Nm (Screw terminal blocks)

## Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 10 GΩ
Nominal voltage $U_N$	63 V DC
Nominal current $I_N$	12 A (when using 1.5 mm² conductors)
	12 A (at 40 °C)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Connector

### Connection 1

Head design	Socket
Head cable outlet	angled
Head thread type	M12
Coding	T

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## Cable/line

Stripping length of the individual wire	5 mm
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

## Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111

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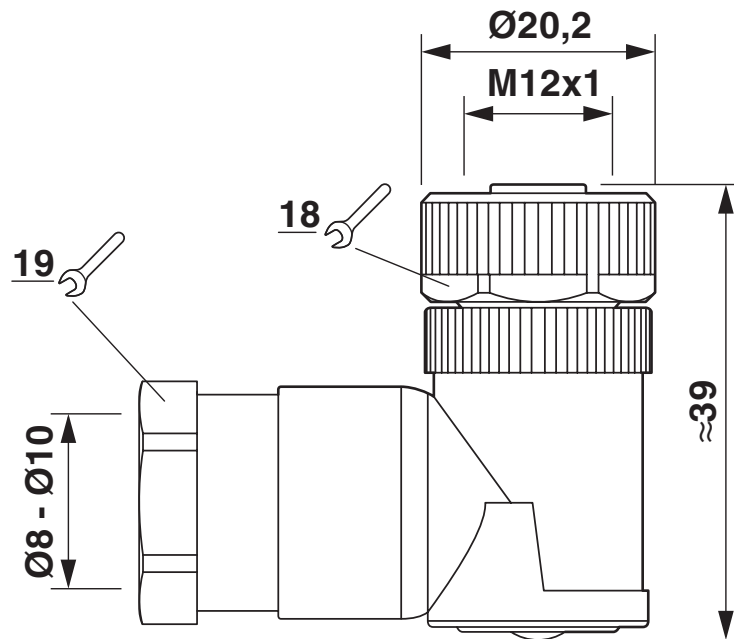
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## Drawings

Dimensional drawing



M12 x 1 socket, straight

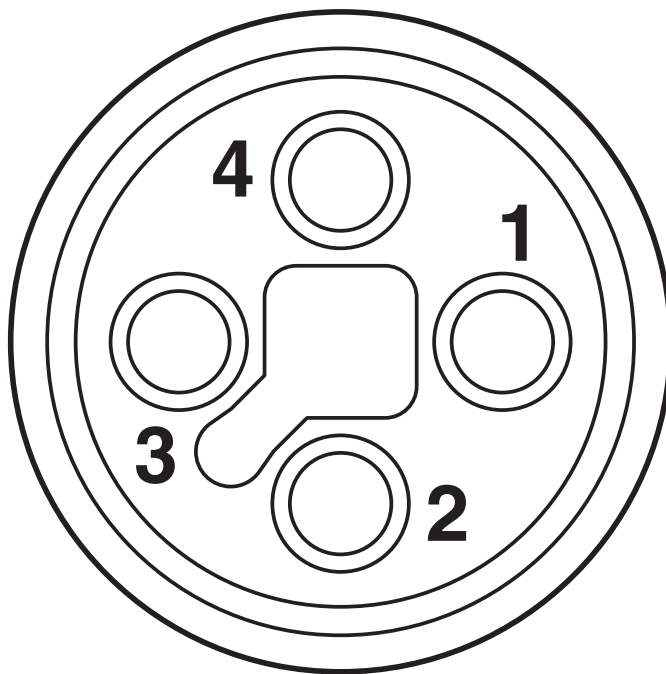
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Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nz/products/1408989>

 <b>cUL Recognized</b> Approval ID: FILE E 221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	60 V	12 A	- 16	-

 <b>UL Recognized</b> Approval ID: FILE E 221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	60 V	12 A	- 16	-

<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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