

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

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 documentation. Our general terms of use for downloads are valid.



Power connector, 4-position, unshielded, Socket straight M12, coding: T, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 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	1418052
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	BF2CAB
GTIN	4055626131528
Weight per piece (including packing)	27.22 g
Weight per piece (excluding packing)	27.22 g
Customs tariff number	85369010
Country of origin	DE

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

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.
Assembly instruction:	NOTE: 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.

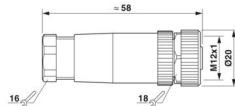
Product properties

Product type	Circular connector (cable-side)
Application	Power supply
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	T
Cable outlet	straight
Pg screw connection	Pg9

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	58 mm
Wrench size, union nut	16 mm

External dimensions

Outside diameter	6 mm ... 8 mm
------------------	---------------

Housing

Diameter housing	20 mm
------------------	-------

Material specifications

Flammability rating according to UL 94	V0
Seal material	Viton NBR
Material of grip body	PA
Contact material	CuZn

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

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 mm ² ... 1.5 mm ² (without ferrule)
	0.75 mm ² ... 1.5 mm ² (with ferrule)
	0.75 mm ² ... 2.5 mm ² (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)
	0.8 Nm ... 1 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 mm ² conductors)
	12 A (at 40 °C)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	-------

Connector

Connection 1

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

Cable/line

Stripping length of the individual wire	5 mm
---	------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
----------------------	------

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
---------------------------------	----------------------------------

Standards and regulations

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

SACC-M12FST-4CON-PG 9-M - Power connector

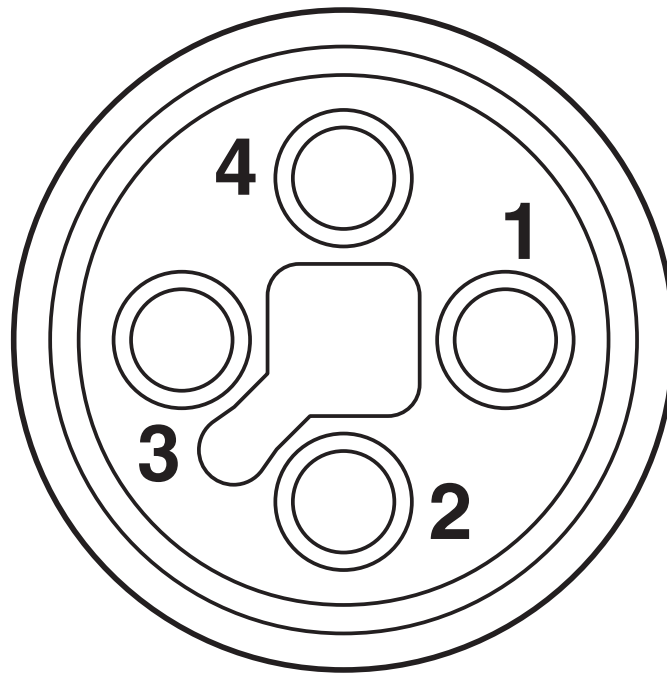


1418052

<https://www.phoenixcontact.com/us/products/1418052>

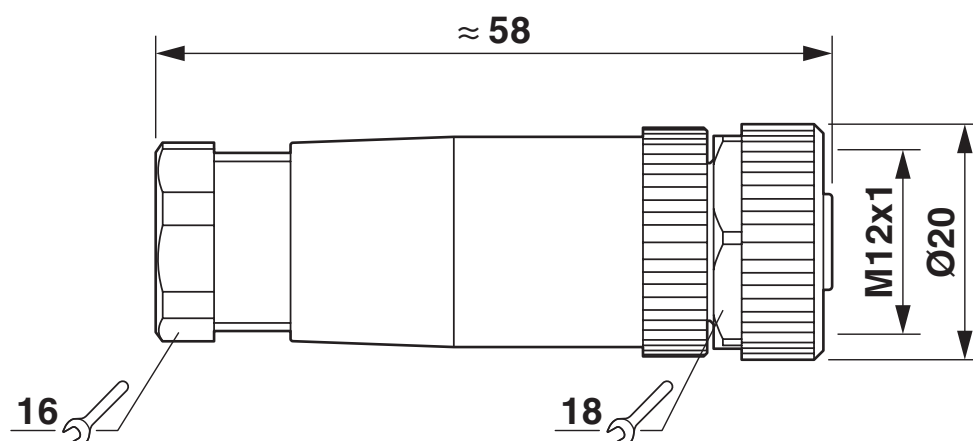
Drawings

Schematic diagram



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

Dimensional drawing



M12 x 1 socket, straight

SACC-M12FST-4CON-PG 9-M - Power connector





1418052

<https://www.phoenixcontact.com/us/products/1418052>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418052>

 cUL Recognized Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	60 V	12 A	- 16	-

 UL Recognized Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	60 V	12 A	- 16	-

cULus Recognized				
-------------------------	--	--	--	--

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002635
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

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)

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

Accessories

A 1,5 - 7 - Ferrule

3200263

<https://www.phoenixcontact.com/us/products/3200263>

Ferrule, color: silver



PROT-M12 MS-PA-CHAIN - Screw plug

1430899

<https://www.phoenixcontact.com/us/products/1430899>

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/us/products/1208429>



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/us/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

SACC BIT M12-D20 - Tool

1208445

<https://www.phoenixcontact.com/us/products/1208445>



Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

WIREFOX 6SC - Stripping tool

1212158

<https://www.phoenixcontact.com/us/products/1212158>



Stripping tool, for cables and conductors (especially for cables protected against short circuits and ground leakages) 1.5 - 6 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

CRIMPFOX 6H - Crimping pliers

1212046

<https://www.phoenixcontact.com/us/products/1212046>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm² ... 6 mm², unlockable pressure lock, lateral entry

SACC-M12FST-4CON-PG 9-M - Power connector



1418052

<https://www.phoenixcontact.com/us/products/1418052>

SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/us/products/1204517>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com