SACC-E-M12MSD-4PL-M20 PN - Device connector front mounting

1139796

https://www.phoenixcontact.com/us/products/1139796

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.



Device connector front mounting, PROFINET, 4-position, unshielded, Plug straight M12, coding: D, Push-lock spring connection, knurl material: Brass, nickel-plated, Flat nut included

Your advantages

- Easy and tool-free connection with Push-Lock connection
- Easy assignment of individual conductors with color coding and numerical marking of contact holder levers
- Conveniently connect stranded conductors, thanks to lever
- Reliable and quick connection of electric cables

Commercial data

Item number	1139796
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF33
Product key	AF2CFN
GTIN	4063151221287
Weight per piece (including packing)	30 g
Weight per piece (excluding packing)	30.5 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Assembly note	NOTE: 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.
Notes on operation	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.
General	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 8.2 Connectors for Outside Environment (Balanced cabling)
Order information:	Lock nut is included in the scope of delivery

Mounting

Tightening torque	0.4 Nm (M12 plug)
	2 Nm (Installation-side)

Product properties

Product type	Circular connectors (device side)
Application	Data
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	D

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Housing

Diameter housing	29 mm

Material specifications

Material	PA 6 (Actuation lever)
Flammability rating according to UL 94	V0
Seal material	NBR (M12 plug)
Material of grip body	Brass, nickel-plated
Contact material	CuSn

Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Brass, nickel-plated

Electrical properties

Rated surge voltage	1.5 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A (2 A when using 0.14 mm² conductors)

Connection data

Conductor connection

Connection method	Push-lock spring connection
Contact connection type	Pin
Connection cross section	0.14 mm² ... 0.75 mm²
	0.14 mm² ... 0.5 mm² (with ferrule)
Connection cross section AWG	26 ... 18 (without ferrule)
	26 ... 20 (with ferrule)
Stripping length of the individual wire	7 mm
Tightening torque	0.4 Nm (M12 plug)
	2 Nm (Installation-side)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Interfaces

Signal type/category	PROFINET

Connector

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	D

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
	IP65

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

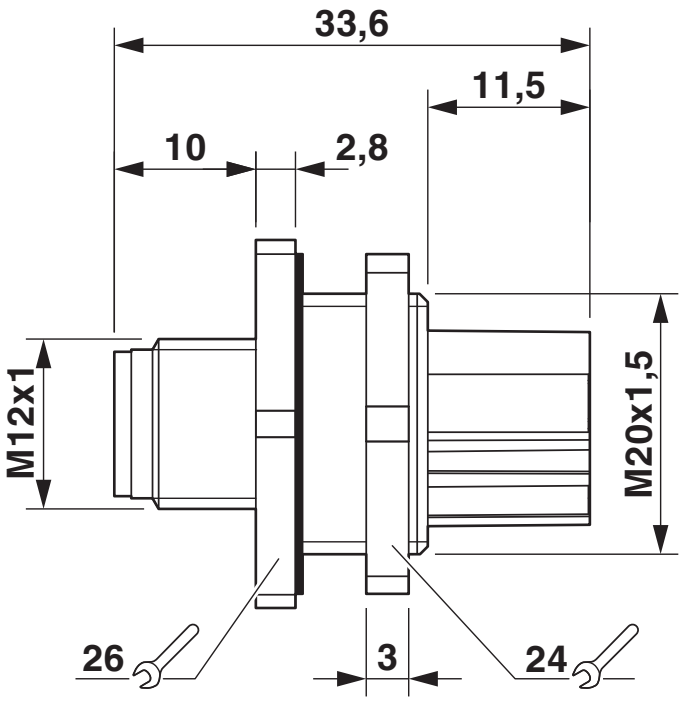
Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

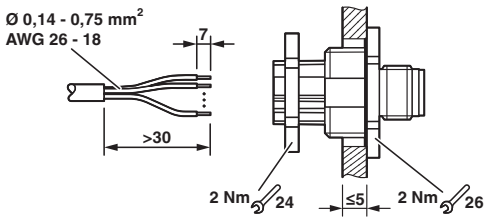
Drawings

Dimensional drawing

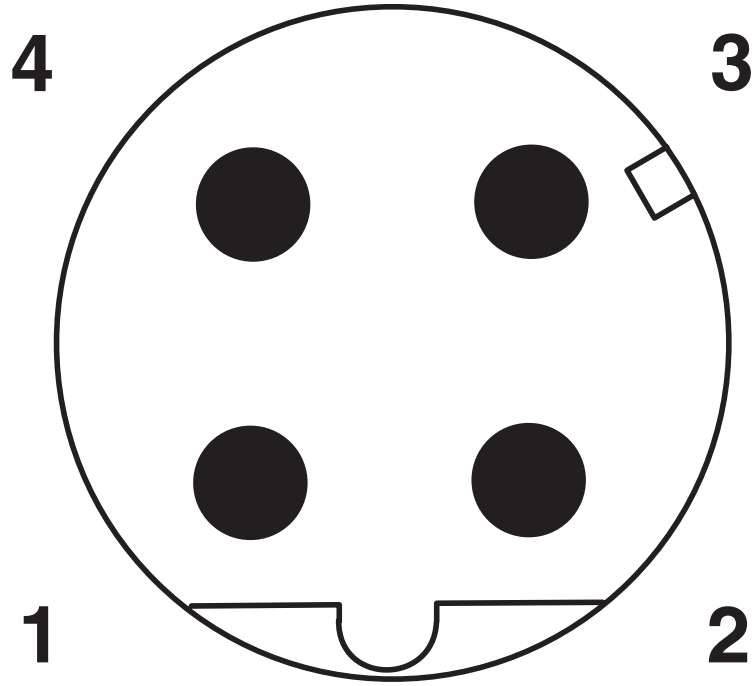


M12 flush-type plug

Functional drawing

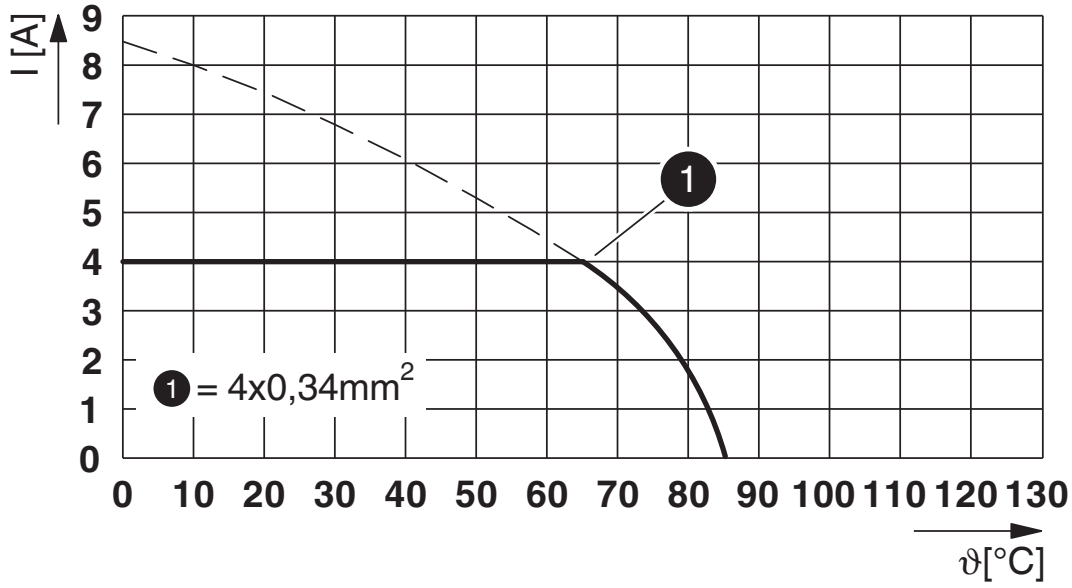


Schematic diagram



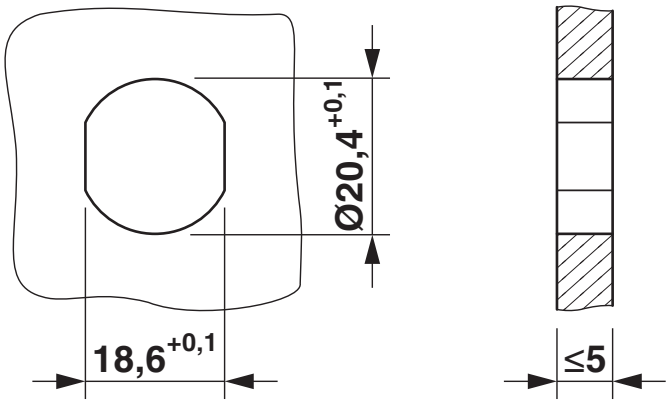
Pin assignment M12 male connector, 4-pos., D-coded, male side

Diagram



I = current strength, T = ambient temperature

Drilling plan/solder pad geometry



Housing cutout for M20 fastening thread, mounting panel with thread

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1139796

UL Listed
Approval ID: E221474

cUL Listed
Approval ID: E221474

Classifications

ECLASS

ECLASS-13.0	27440109
ECLASS-15.0	27440109

ETIM

ETIM 10.0	EC003569

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2026 © - 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