

SACC-E-M12MSD-4PL-M20 PN - Panel feed-through



1139796

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

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Panel feed-through, PROFINET, 4-position, shielded, Plug straight M12, coding: D, Front mounting, M20 x 1,5, 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)	30.5 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)

Mounting

Tightening torque	2 Nm (Installation-side)
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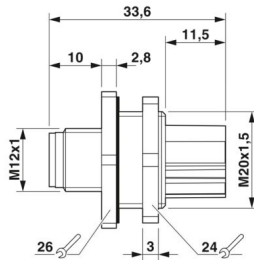
Product properties

Product type	Circular connectors (device side)
Sensor type	PROFINET
Number of positions	4
No. of cable outlets	1
Coding	D
Cable outlet	straight

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	21 mm
Hole diameter	20.4 mm +0.1 mm

Housing

Diameter housing	29 mm
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Material specifications

Material	PA 6 (Actuation lever)
Flammability rating according to UL 94	V0
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
Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A (2 A when using 0.14 mm^2 conductors)

Connection data

Conductor connection

Connection method	Push-lock spring connection
Contact connection type	Pin
Connection cross section	$0.14 \text{ mm}^2 \dots 0.75 \text{ mm}^2$ (without ferrule)
	$0.08 \text{ mm}^2 \dots 0.5 \text{ mm}^2$ (with ferrule)
	$0.14 \text{ mm}^2 \dots 0.75 \text{ mm}^2$ (solid)
Connection cross section AWG	26 ... 18 (without ferrule)
	28 ... 20 (with ferrule)
Stripping length of the individual wire	7 mm
Tightening torque	2 Nm (Installation-side)

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	M12
Coding	D

Cable/line

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

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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
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

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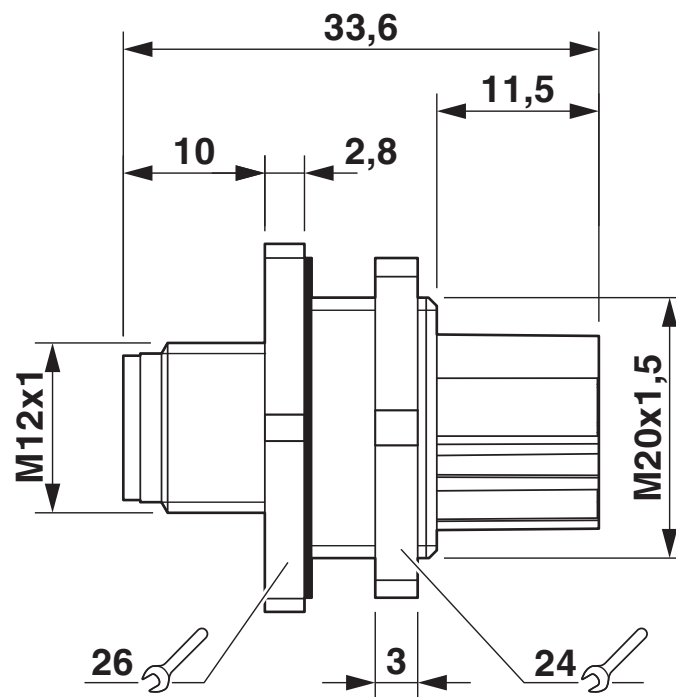
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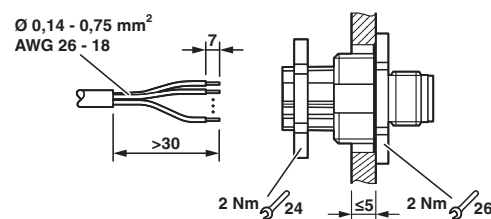
Drawings

Dimensional drawing



M12 flush-type plug

Functional drawing

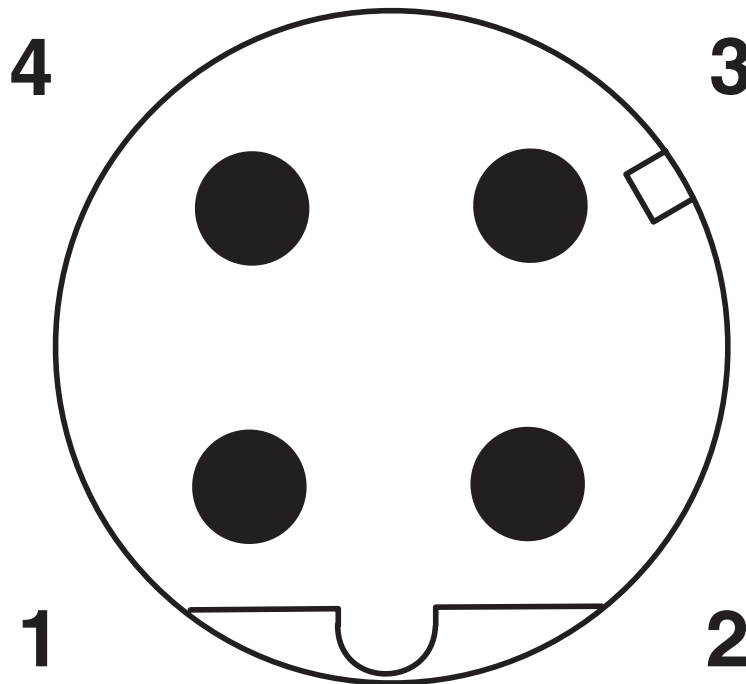


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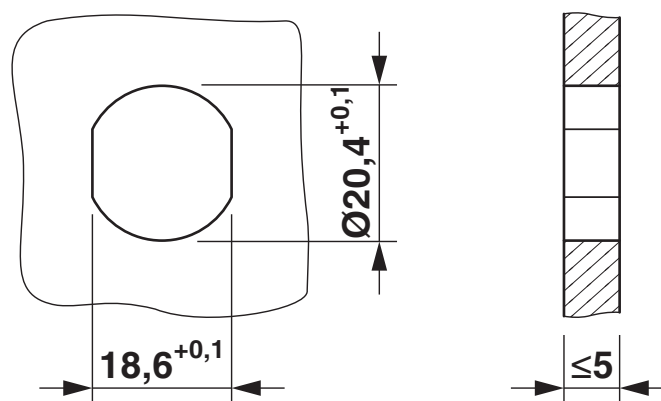
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Schematic diagram



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

Drilling plan/solder pad geometry



Housing cutout for M20 fastening thread, mounting panel with thread


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Approvals

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UL Listed

Approval ID: E221474



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Classifications

ECLASS

ECLASS-13.0	27440109
ECLASS-15.0	27440109

ETIM

ETIM 9.0	EC003569
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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%
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