SACC-E-M12MS-5PL-M20 - Panel feed-through

1139804

https://www.phoenixcontact.com/us/products/1139804

Panel feed-through, Universal, 5-position, unshielded, Plug straight M12, A, Front mounting, M20 x 1,5, Push-lock 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	1139804
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF33
Product key	BF2CEA
GTIN	4063151223700
Weight per piece (including packing)	30.3 g
Weight per piece (excluding packing)	30 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

General	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.
General	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.

Mounting

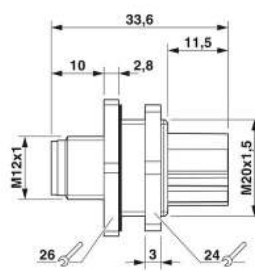|	
Mounting type	Front mounting M20 x 1,5
Assembly instructions	The wires can be connected both with ferrules and without ferrules
Connection method	Push-lock connection

Product properties

Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight

Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	21 mm

Housing	
Diameter housing	29 mm

Material specifications

Material	PA 6
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	≤ 5 mΩ
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 connection
Contact connection type	Pin
Conductor cross section flexible	0.14 mm² ... 0.75 mm²
Cross section AWG	26 ... 18
Tightening torque	2 Nm

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
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) | -40 °C ... 85 °C (Plug / socket) |

Standards and regulations

M12

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

Drawings

Functional drawing

Ø 0,14 - 0,75 mm^2
AWG 26 - 18

7

>30

2 Nm 24   ≤5   2 Nm 26
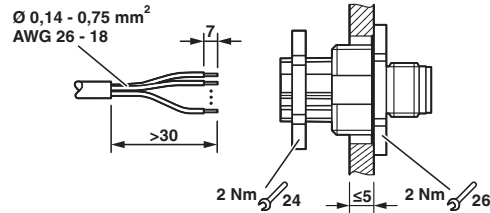
Drilling plan/solder pad geometry

Ø20,4$^{+0,1}$

18,6$^{+0,1}$

≤5
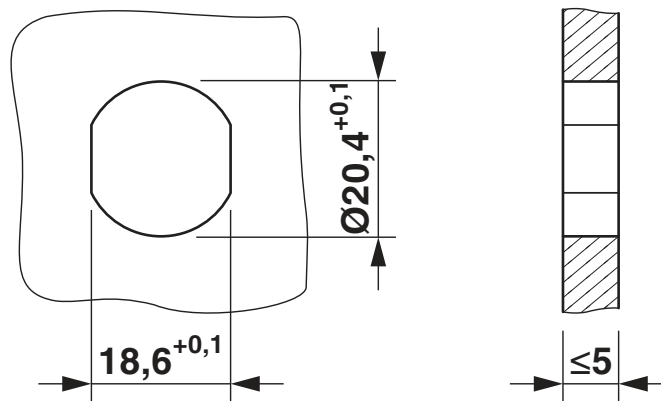
Housing cutout for M20 fastening thread, mounting panel with thread

Schematic diagram

4   3

5

1   2
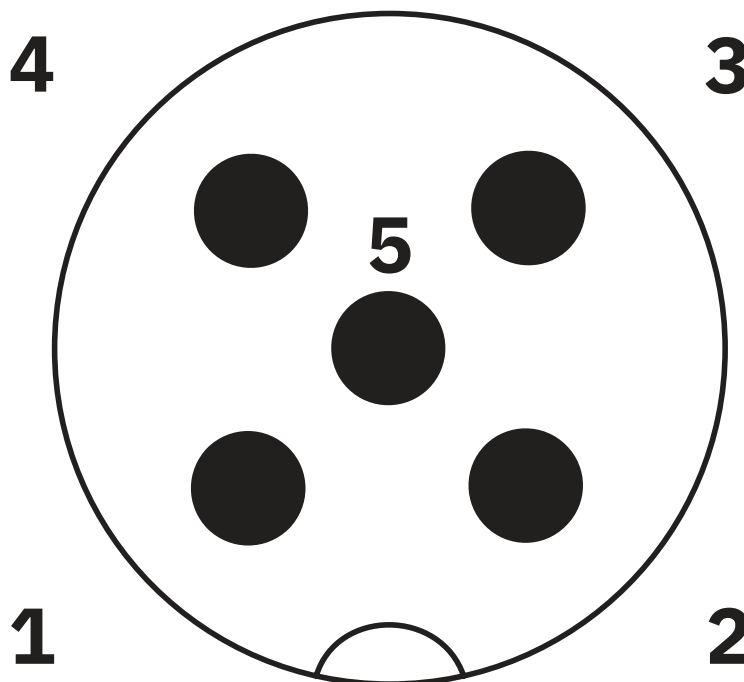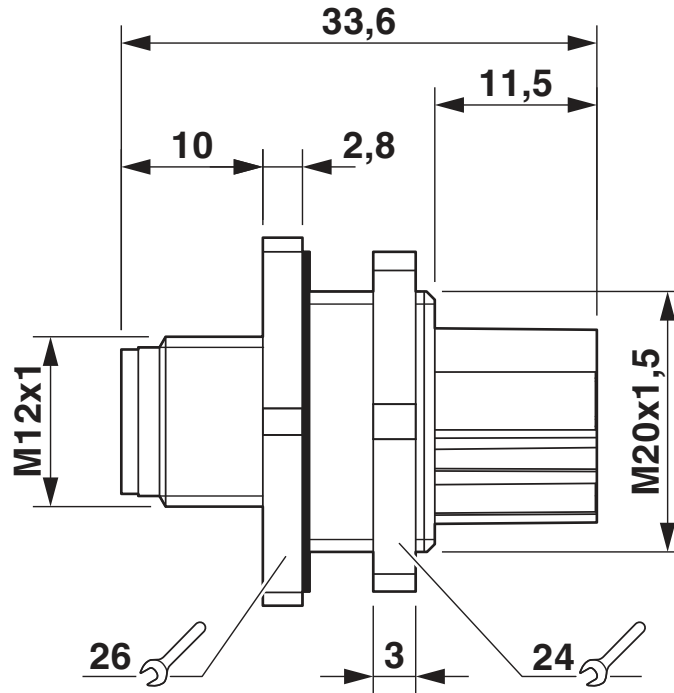
Pin assignment M12 male connector, 5-pos., A-coded, male side

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Dimensional drawing

M12 flush-type plug

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1139804

UL Listed
Approval ID: E221474

cUL Listed
Approval ID: E221474

cULus Listed

Classifications

ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

ETIM

ETIM 8.0	EC003569

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Accessories

SACC-M12FS-5PL M - Connector

1424652

https://www.phoenixcontact.com/us/products/1424652

Connector, Universal, 5-position, unshielded, Socket straight M12, A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-M12FR-5PL M - Connector

1424653

https://www.phoenixcontact.com/us/products/1424653

Connector, Universal, 5-position, unshielded, Socket angled M12, A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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PROT-M12 FS - Sealing cap

1560251

https://www.phoenixcontact.com/us/products/1560251

M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

PROT-M12 FS-M - Sealing cap

1430488

https://www.phoenixcontact.com/us/products/1430488

M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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SAC-5P-100,0-PUR/0,34 - Cable reel

1501676

https://www.phoenixcontact.com/us/products/1501676

By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 5-wire, color single wire: brown, white, blue, black, green-yellow, cable length: 100 m

AI 0,25- 6 YE - Ferrule

3203024

https://www.phoenixcontact.com/us/products/3203024

Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: yellow

A 0,25- 7 - Ferrule

3202478

https://www.phoenixcontact.com/us/products/3202478

Ferrule, length: 7 mm, color: silver

A 0,34- 7 - Ferrule

3009202

https://www.phoenixcontact.com/us/products/3009202

Ferrule, length: 7 mm, color: silver

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A 0,5 - 6 - Ferrule

3200218

https://www.phoenixcontact.com/us/products/3200218

Ferrule, length: 6 mm, color: silver

AI 0,5 - 6 WH - Ferrule

3200687

https://www.phoenixcontact.com/us/products/3200687

Ferrule, sleeve length: 6 mm, length: 12 mm, color: white

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WIREFOX 2,5 - Stripping tool

1212368

https://www.phoenixcontact.com/us/products/1212368

Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm^2 stranded/1.5 mm^2 solid

WIREFOX SAC - Stripping tool

1212623

https://www.phoenixcontact.com/us/products/1212623

Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

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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 mm^2 ... 6 mm^2, unlockable pressure lock, lateral entry

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