

SACC-E-M12MS-3CON-NPT12/1,0 - Panel feed-through

1421079
<https://www.phoenixcontact.com/us/products/1421079>

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Panel feed-through, 3-position/PVC, Plug, straight, M12, coding: A, on free cable end, Front mounting, with 1/2 inch-14 NPT mounting thread, Individual wires, cable length: 1 m, 0.34 mm², PVC litz wire

Commercial data

Item number	1421079
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF2IBA
GTIN	4055626337388
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	MX

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Technical data

Notes

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.
Trade restriction	
CE note	The products are offered exclusively for export outside the EU and the European Economic Area.

Mounting

Mounting type	Front mount, with 1/2-inch NPT
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Product properties

Product type	Circular connectors (device side)
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A

Data management status

Article revision	02
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Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
Housing surface material	die-cast aluminum
Contact material	Cu alloy
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Aluminum alloy

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	300 V
Nominal current I_N	4 A

Connection data

Conductor connection	
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Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	0.34 mm ²
Tightening torque	1.12 Nm (Installation-side)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 500
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Connector

Connection 1

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

Connection 2

Head design	free cable end
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Cable/line

Cable length	1 m
Cable type	PVC litz wire
Cable structure	3 x 22 AWG
Wire diameter incl. insulation	1.78 mm
Single wire, color	brown, blue, black
Cable cross section	0.34 mm ²
Material, inner sheath	PVC
Conductor structure signal line	7x (30 AWG strand)
AWG signal line	22
Material wire insulation	PVC
Thickness, insulation	0.76 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-20 °C ... 105 °C

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standards/specifications	UL 2238
Note	Suitable for use in Class I, Division 2 Groups A, B, C, D hazardous locations according to ISA standard 12.12.01-2015, section 8.2 and 8.8.3

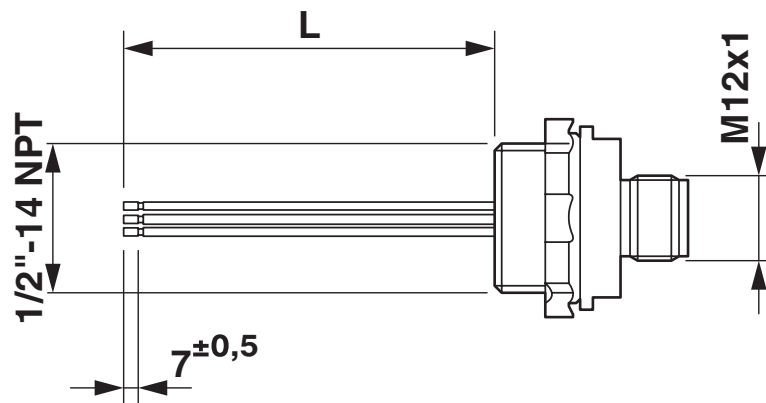
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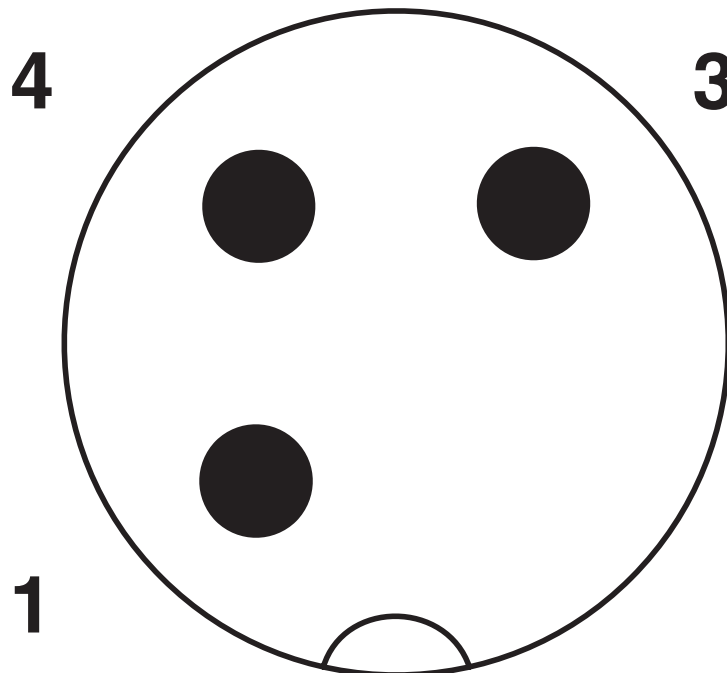
Drawings

Dimensional drawing



M12 flush-type plug

Schematic diagram



Pin assignment M12 plug, 3-pos., A-coded, view plug side

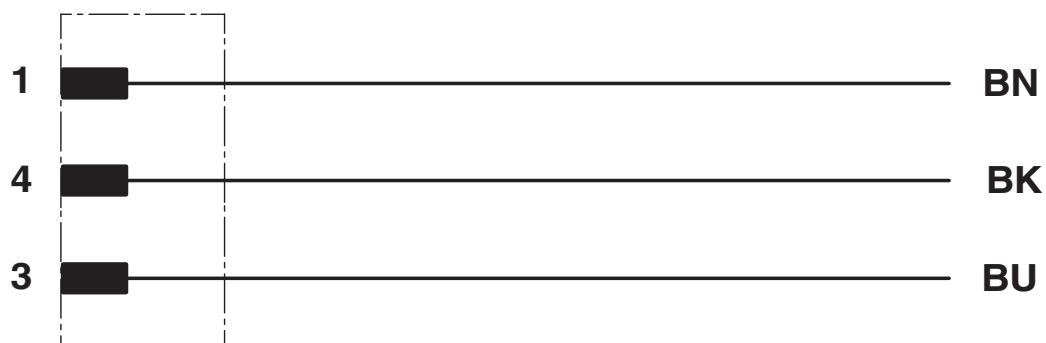
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Circuit diagram



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Approvals

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UL Listed
Approval ID: FILE E 221474



cUL Listed
Approval ID: FILE E 221474

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC003569
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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.)	No substance above 0.1 wt%

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