

# SACC-E-M12MS-4CON-NPT12/1,0 - Panel feed-through



1421081

<https://www.phoenixcontact.com/us/products/1421081>

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Panel feed-through, 4-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 mm<sup>2</sup>, PVC litz wire

## Commercial data

Item number	1421081
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF2IBA
GTIN	4055626337708
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.
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### Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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### 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	4
No. of cable outlets	1
Shielded	no
Coding	A

### 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

Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	0.34 mm <sup>2</sup>

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Tightening torque	1.12 Nm (Installation-side)
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## 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	4 x 22 AWG
Wire diameter incl. insulation	1.78 mm
Single wire, color	brown, white, blue, black
Cable cross section	0.34 mm <sup>2</sup>
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

# SACC-E-M12MS-4CON-NPT12/1,0 - Panel feed-through

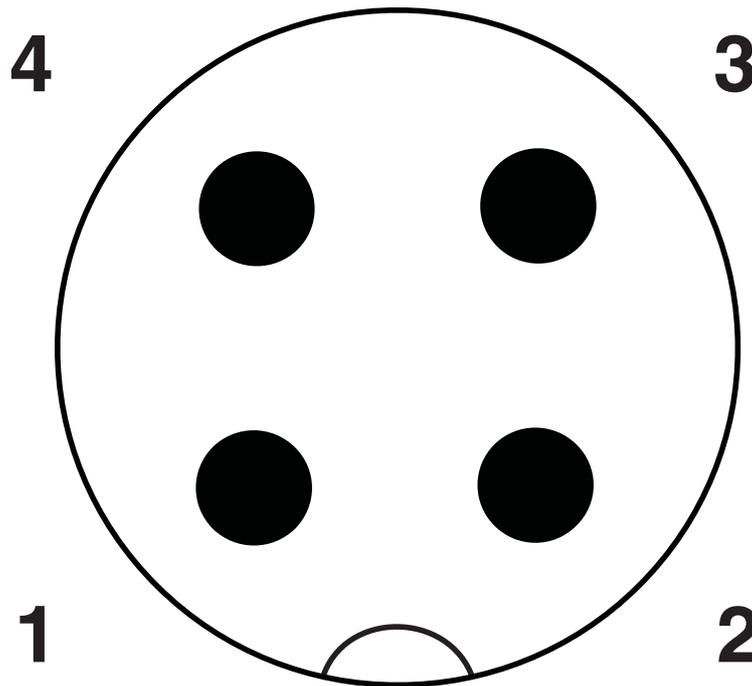


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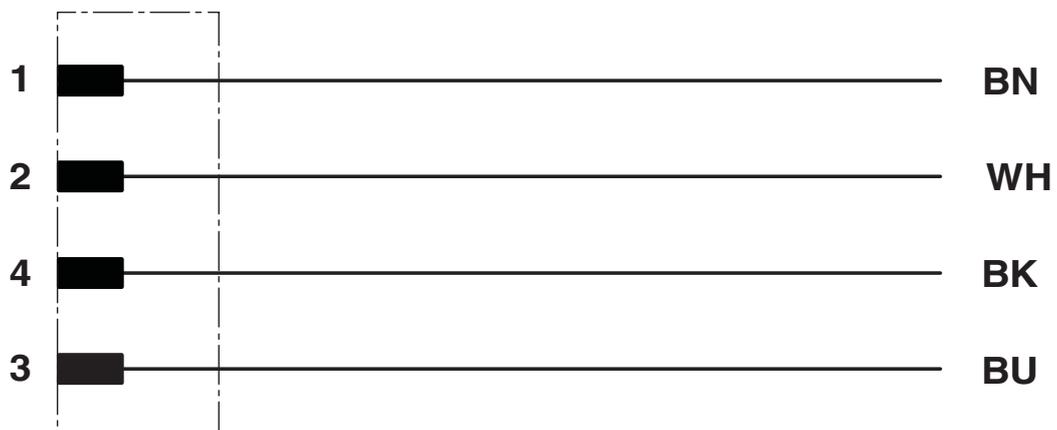
## Drawings

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

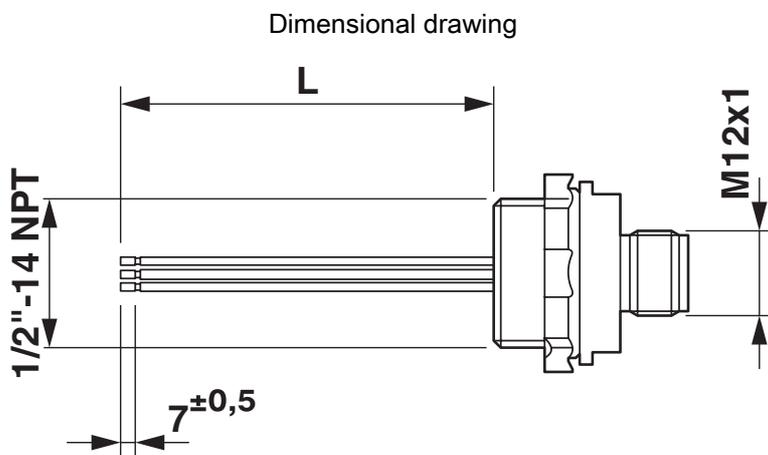
Circuit diagram



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M12 flush-type plug

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## Approvals

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**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

Approval ID: FILE E 221474

**cULus Listed**

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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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### 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-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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## Accessories

### SACC-1/2 NPT-LOCKNUT - Lock nut

1020362

<https://www.phoenixcontact.com/us/products/1020362>

Locknut, 1/2 inch-14 NPT thread



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### SACC-MIN-SEAL - Seal

1020363

<https://www.phoenixcontact.com/us/products/1020363>

Seal for MINI 7/8-inch panel feed through with 1/2 inch-14 NPT thread



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