

# SACC-E-M12FS-3CON-NPT12/1,0 - Panel feed-through



1421080

<https://www.phoenixcontact.com/us/products/1421080>

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Panel feed-through, 3-position/PVC, Socket, straight, M12, A-coding, on free cable end, Individual wires, cable length: 1 m, 0.34 mm<sup>2</sup>, PVC litz wire

## Commercial data

Item number	1421080
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF2IBA
GTIN	4055626337395
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

Tightening torque	1.12 Nm (Installation-side)
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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

### 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	Socket
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	Socket
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 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 <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) (male connector/female connector)	-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

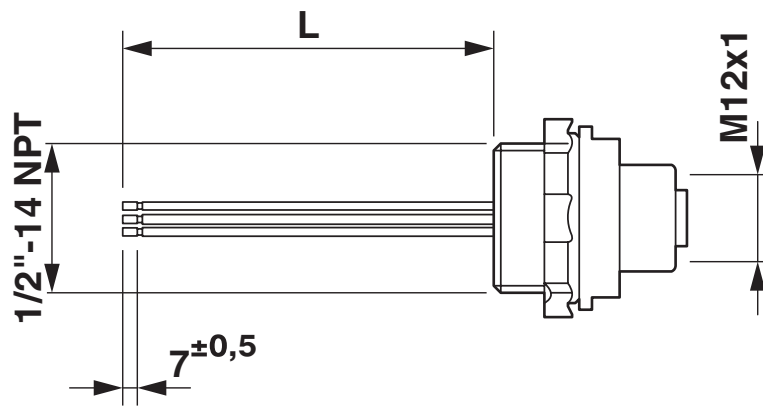
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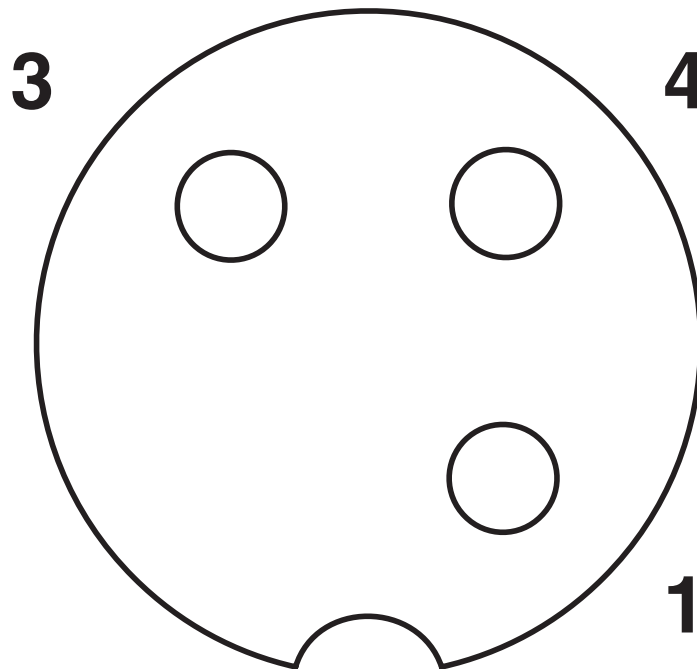
## Drawings

Dimensional drawing



M12 flush-type socket

Schematic diagram



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

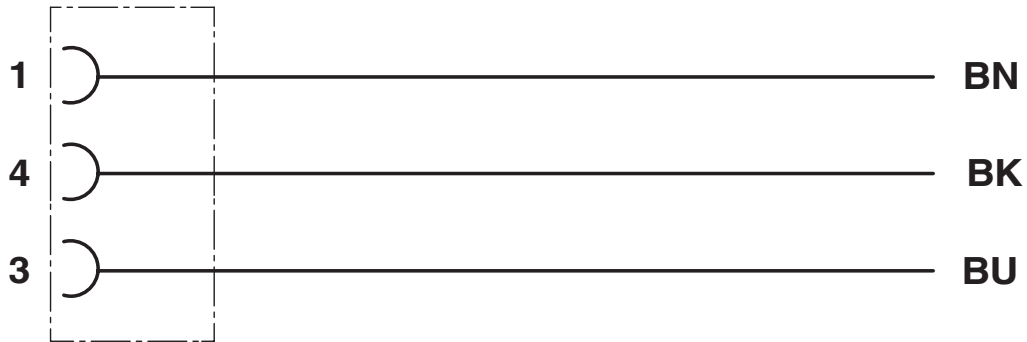
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Circuit diagram



Contact assignment of the M12 socket

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## Approvals

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**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

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## Classifications

### ECLASS

ECLASS-13.0	27440109
ECLASS-15.0	27440109

### ETIM

ETIM 10.0	EC003569
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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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