

1421080

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Panel feed-through, 3-position/PVC, Socket, 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	1421080
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF2IBA
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	
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
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	03
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3
Material specifications	
Flammability rating according to UL 94	VO
Housing surface material	die-cast aluminum

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	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	300 V
Nominal current I <sub>N</sub>	4 A

#### Connection data

Conductor connection



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Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.34 mm²
Tightening torque	1.12 Nm (Installation-side)

## Mechanical properties

#### Mechanical data

	Insertion/withdrawal cycles	> 500

#### 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 structure	3 x 22 AWG
Wire diameter incl. insulation	1.78 mm
Single wire, color	brown, blue, black
Cable cross section	0.34 mm²
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

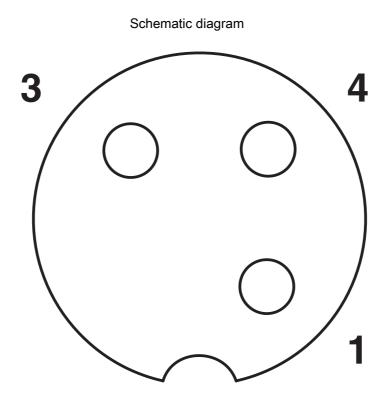
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standards/specifications	UL 2238
Note	Suitable for use in Class I, Division 2 Groups A, B, C, D hazardous locations according to ISA standard 12.12.01-2015, section 8.2 and 8.8.3



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## Drawings



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

# Dimensional drawing L TX21W 7±0,5

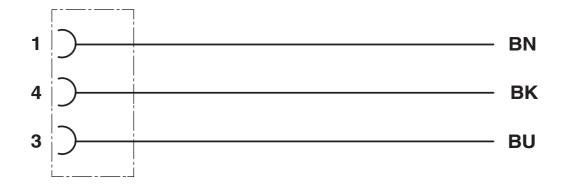
M12 flush-type socket



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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

**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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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions		
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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