

SACC-E-MINM-5CON-NPT12-U40/1,0 - Flush-type connector



1420959
<https://www.phoenixcontact.com/us/products/1420959>

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Flush-type connector, 5-position, PVC/PVC, gray, Plug, straight, 7/8"-16UNF, on free cable end, Front mounting, with 1/2 inch-14 NPT mounting thread, Individual wires, cable length: 1 m, 0.75 mm², CANopen®/DeviceNet™, PUR, violet

Commercial data

Item number	1420959
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF14
Product key	BF2ICA
GTIN	4055626341507
Weight per piece (including packing)	222.3 g
Weight per piece (excluding packing)	222.3 g
Customs tariff number	85444290
Country of origin	MX

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Technical data

Notes

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 mounting, with 1/2 inch-14 NPT mounting thread
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Product properties

Product type	Circular connectors (device side)
Number of positions	5
No. of cable outlets	1
Shielded	yes

Data management status

Article revision	04
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Insulation characteristics

Overvoltage category	UL 2238 Section 38
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V-0
Housing surface material	Al anodized
Contact material	Copper alloy
Contact surface material	Au
Contact carrier material	PVC
Material for screw connection	Anodized aluminum
Outer sheath, material	PVC

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	300 V AC
	300 V DC
Nominal current I_N	8 A

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	0.75 mm ² (2 x AWG 18 data cable)
Tightening torque	10 lb _F in.

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1.12 Nm

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	7/8"-16UNF

Connection 2

Head design	free cable end
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Cable/line

Cable length	1 m
Cable type	CANopen®/DeviceNet™, PUR, violet
Cable abbreviation	U40
Cable structure	2xAWG18+2xAWG15+1xAWG18
Outer sheath, material	PVC
External sheath, color	gray
Wire diameter incl. insulation	11.43 mm
Single wire, color	red-black, blue-white
Cable cross section	0.75 mm² (2 x AWG 18 data cable)
	1.75 mm² (2 x AWG 15 power supply)
	0.75 mm² (1 x AWG 18 drain wire)
Material, inner sheath	PVC
Conductor structure signal line	19 x AWG 30
AWG signal line	18
Conductor structure, voltage supply	19 x AWG 28
AWG power supply	15
Material wire insulation	PVC (Power supply)
	Foamed PE (Data)
Twisted pairs	2 cores to the pair
Type of pair shielding	Plastic-coated aluminum foil, aluminum side outside
Overall twist	2 pairs and one drain wire to the core
Optical shield covering	65 %

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP68
	IP68

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Ambient temperature (operation)	-20 °C ... 80 °C (Plug)
	-20 °C ... 80 °C (cable, fixed installation)

Standards and regulations

Standard designation	7/8" connector
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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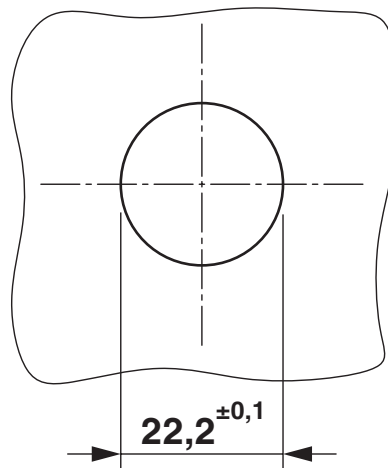


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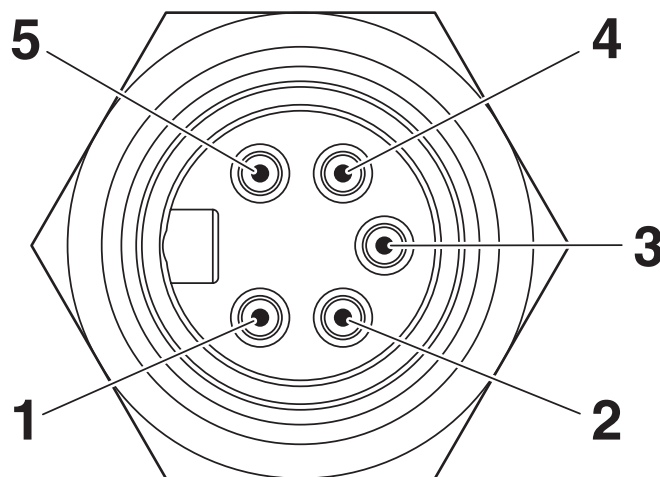
Drawings

Dimensional drawing



Housing cutout

Schematic diagram



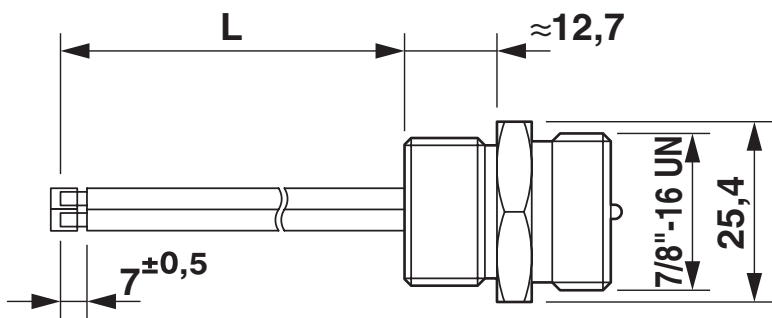
Pin assignment, plug, 7/8"-16UNF, 5-pos., view of male side (reference image)

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Dimensional drawing



7/8" flush-type plug

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

UNSPSC

UNSPSC 21.0	39121413
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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