SACC-E-MINF-5CON-NPT12-U30/1,0 - Flush-type connector

1420960

https://www.phoenixcontact.com/us/products/1420960

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Flush-type connector, 5-position, PVC/PVC, gray, Socket, straight, 7/8"-16UNF, on free cable end, Individual wires, cable length: 1 m, 0.25 mm^2, CANopen®/DeviceNet™, PUR, gray

Commercial data

Item number	1420960
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF14
Product key	AF2ICA
GTIN	4055626341514
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	MX

Technical data

Mounting

Tightening torque	10 lb_f-in.
	1.12 Nm

Product properties

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

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	≥ 100 MΩ
Nominal voltage U_N	300 V AC/DC (UL rating)
	50 V AC/DC (IEC rating)
Nominal current I_N	4 A

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross-section	0.25 mm² (2 x AWG 24 data cable)
Tightening torque	10 lb_f-in.
	1.12 Nm

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 500

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	7/8"-16UNF

Connection 2

Head design	free cable end

Cable/line

Cable length	1 m
Cable type	CANopen®/DeviceNet™, PUR, gray
Cable abbreviation	U30
Cable structure	2xAWG24+2xAWG22+1xAWG22
Outer sheath, material	PVC
External sheath, color	gray
Wire diameter incl. insulation	6.6 mm
Single wire, color	red-black, blue-white
Cable cross section	0.25 mm² (2 x AWG 24 data cable)
	0.34 mm² (2 x AWG 22 power supply)
	0.34 mm² (1 x AWG 22 drain wire)
Material, inner sheath	PVC
Conductor structure signal line	19 x AWG 36
AWG signal line	24
Conductor structure, voltage supply	19 x AWG 34
AWG power supply	22
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
Ambient temperature (operation) (male connector/female connector)	-20 °C ... 80 °C (Plug)
Ambient temperature (operation)	-20 °C ... 80 °C (cable, fixed installation)

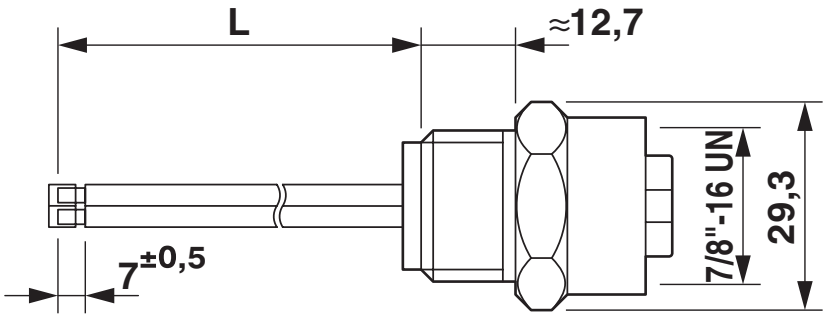
Standards and regulations

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

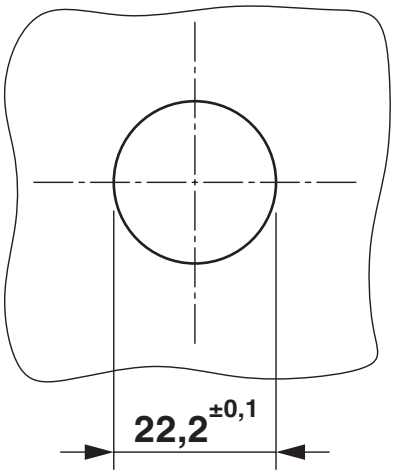
Drawings

Dimensional drawing



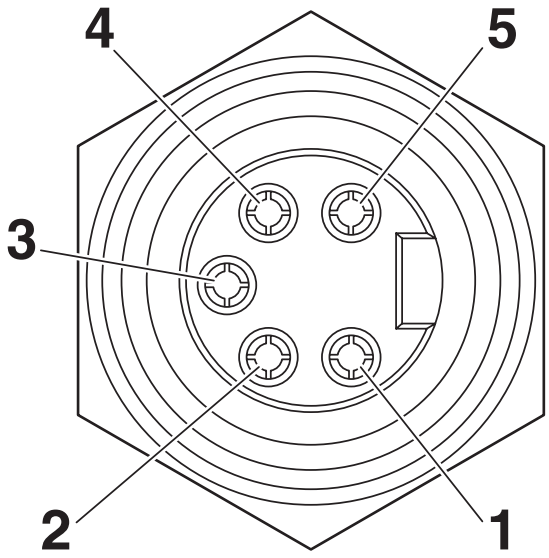
7/8" flush-type socket

Dimensional drawing



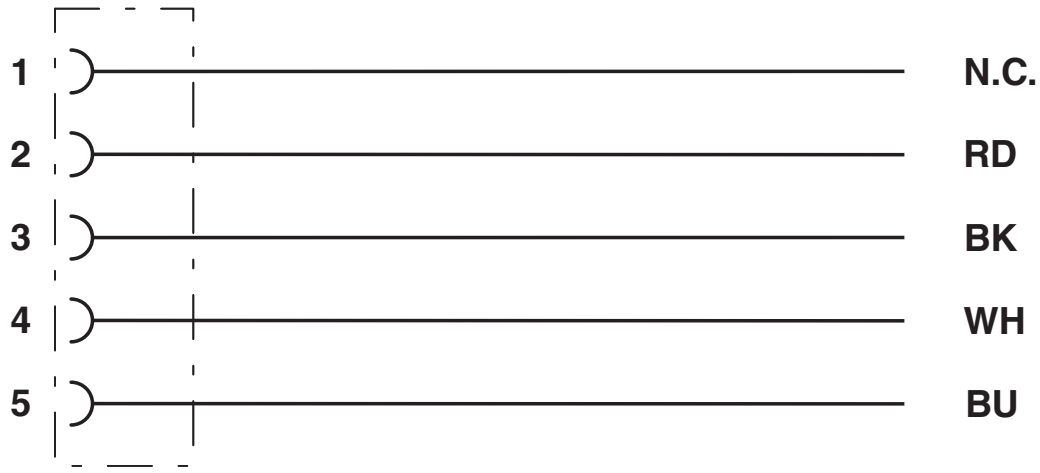
Housing cutout

Schematic diagram



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

Circuit diagram



Contact assignment of 7/8" socket

Classifications

ECLASS

ECLASS-13.0	27440109
ECLASS-15.0	27440109

ETIM

ETIM 10.0	EC003569

UNSPSC

UNSPSC 21.0	39121413

Environmental product compliance

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%

EF3.1 Climate Change

CO2e kg	6.396 kg CO2e

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