

1416688
<https://www.phoenixcontact.com/us/products/1416688>

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Bus system cable, DeviceNet™, 5-position, Plug straight 7/8"-16UNF, on free cable end, cable length: 2 m

Commercial data

Item number	1416688
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF14
Product key	BF1IMD
GTIN	4055626219530
Weight per piece (including packing)	171.4 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	MX

SAC-5P-MINMS/ 2,0-U30 - Bus system cable



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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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Product properties

Product type	Sensor/actuator cable
Sensor type	DeviceNet™
Number of positions	5
Application	Standard
Shielded	yes
Coding	A

Material specifications

Flammability rating according to UL 94	V-0
Material of grip body	PVC
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PVC
Material for screw connection	Anodized aluminum

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	300 V AC
	300 V DC
Nominal current I_N	4 A
Protective circuit	unwired

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	10 lb _F ·in.
	1.12 Nm

Pin assignment

Contact Color (signal designation) Contact (optional)	1 (Plug) SR (shield) 1
	2 (Plug) RD (V+) 2
	3 (Plug) BK (V-) 3

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	4 (Plug) WH (CAN_H) 4
	5 (Plug) BU (CAN_L) 5

Connector

Connection 1

Type	Plug straight 7/8"-16UNF
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Connection 2

Type	free cable end
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Cable/line

Cable length	2 m
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CANopen[®]/DeviceNet[™], PUR, gray [U30]

Number of positions	5
Shielded	yes
Cable type	CANopen [®] /DeviceNet [™] , PUR, gray [U30]
Conductor structure signal line	19 x AWG 36
Conductor cross section	2 x AWG 24 data cable
	2 x AWG 22 power supply
	1 x AWG 24 drain wire
External cable diameter	6.6 mm
Outer sheath, material	PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Material wire insulation	Foamed PE
	PVC (Power supply)
Single wire, color	red-black, blue-white
Twisted pairs	2 cores to the pair
Type of pair shielding	Plastic-coated aluminum foil, aluminum side outside
Overall twist	2 pairs around a drain wire in the center to the core
Optical shield covering	65 %
Flame resistance	UL 1581, FT4
Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (720 h) (UL 2556)
Ambient temperature (operation)	-20 °C ... 75 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-20 °C ... 75 °C (Plug / socket)
	-20 °C ... 75 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

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Standards and regulations

Other resistance	UL 2556
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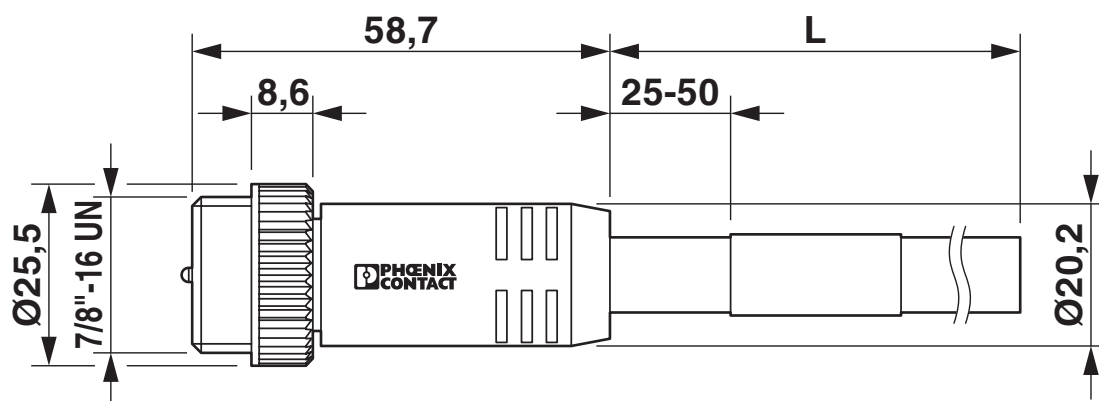


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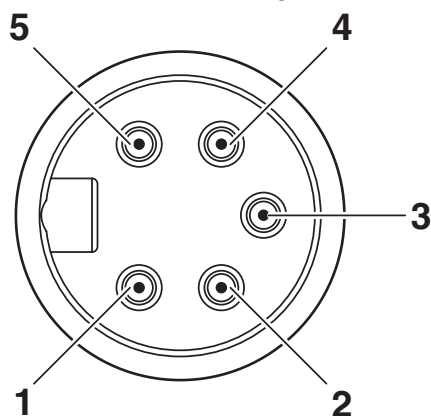
Drawings

Dimensional drawing



7/8"-16UNF plug, straight

Schematic diagram



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

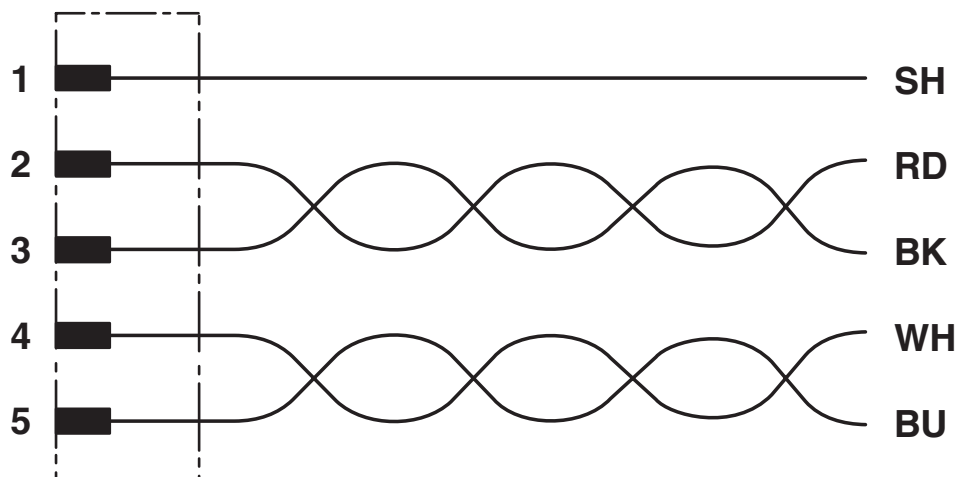
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Circuit diagram



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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	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307

UNSPSC

UNSPSC 21.0	31251501
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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