SAC-5P-MINMR/10,0-U40/MINFR - Bus system cable

1416889

https://www.phoenixcontact.com/us/products/1416889

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Bus system cable, DeviceNet™, 5-position, PVC, gray, Plug angled 7/8"-16UNF, coding: A, on Socket angled 7/8"-16UNF, coding: A, cable length: 10 m

Commercial data

Item number	1416889
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF14
Product key	AF1IMD
GTIN	4055626219684
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

Product properties

Product type	Sensor/actuator cable
Application	Standard
Sensor type	DeviceNet™
Number of positions	5
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

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	300 V AC/DC (UL rating)
	50 V AC/DC (IEC rating)
Nominal current I_N	8 A

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 (Socket)
	2 (Plug) | RD (V+) | 2 (Socket)
	3 (Plug) | BK (V-) | 3 (Socket)
	4 (Plug) | WH (CAN_H) | 4 (Socket)
	5 (Plug) | BU (CAN_L) | 5 (Socket)

Connector

Connection 1

Type	Plug angled 7/8"-16UNF

Number of positions	5
Coding type	A

Connection 2

Type	Socket angled 7/8"-16UNF
Number of positions	5
Coding type	A

Cable/line

Cable length	10 m

DeviceNet trunk cable [U40]

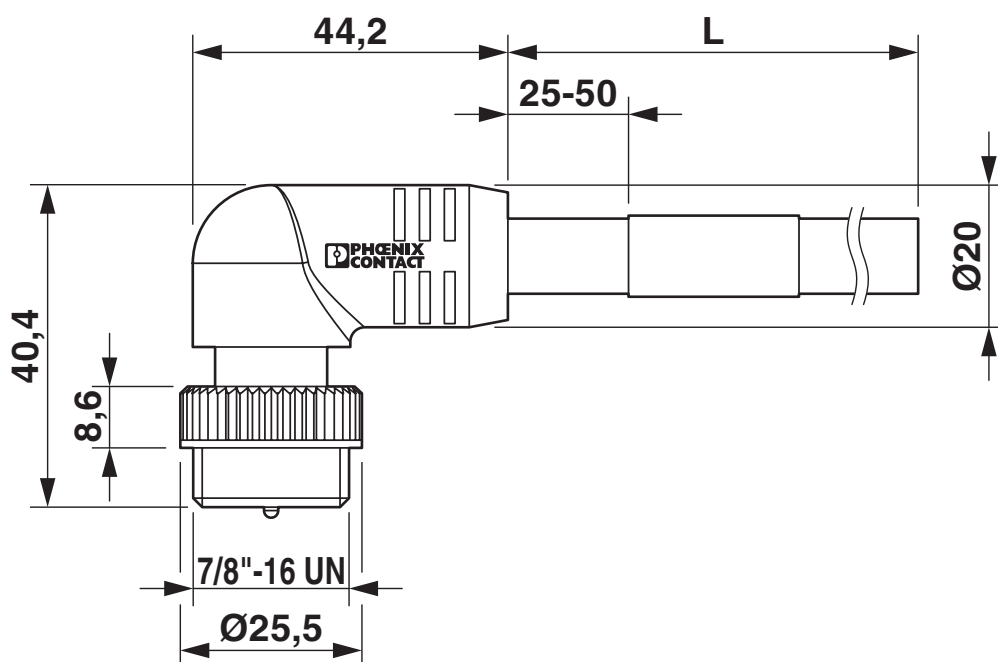| Number of positions	5
Shielded	yes
Cable type	DeviceNet trunk cable [U40]
Conductor structure signal line	19 x AWG 30
Conductor structure, voltage supply	19 x AWG 28
Conductor cross section	2 x AWG 18 data cable
	2 x AWG 15 power supply
	1 x AWG 18 drain wire
External cable diameter	11.43 mm
Outer 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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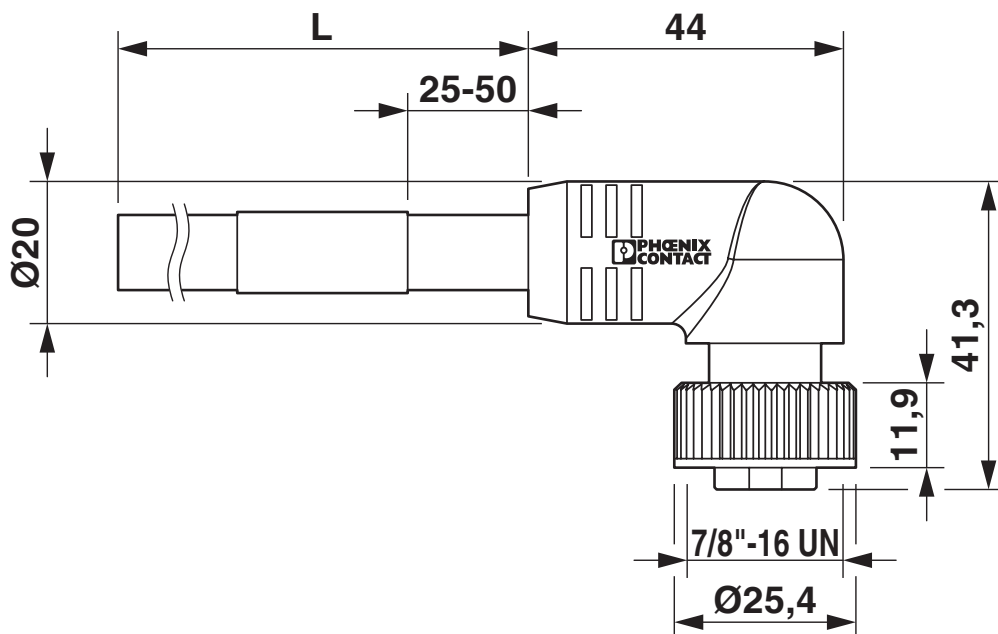
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Drawings

Dimensional drawing

7/8"-16UNF plug, angled

Dimensional drawing

7/8"-16UNF socket, angled

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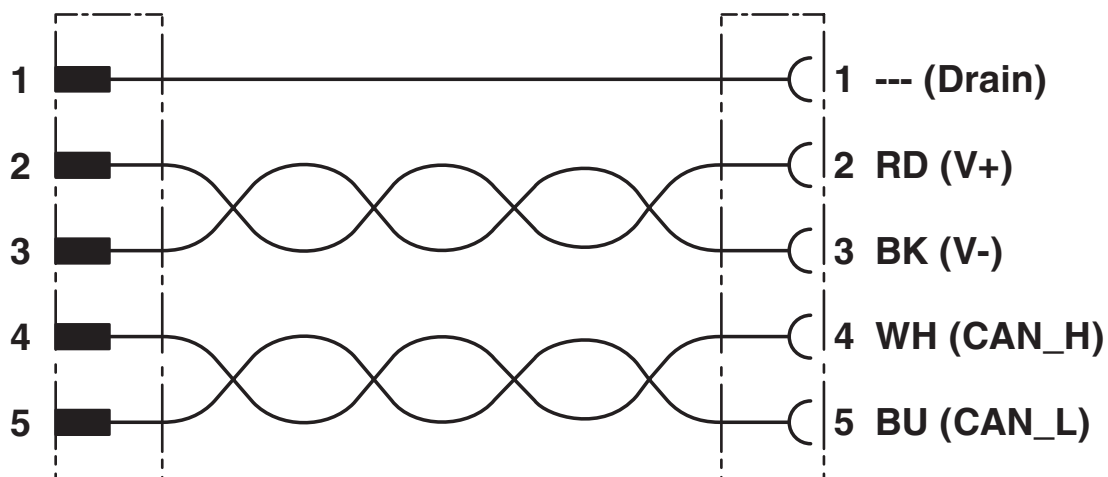
Schematic diagram
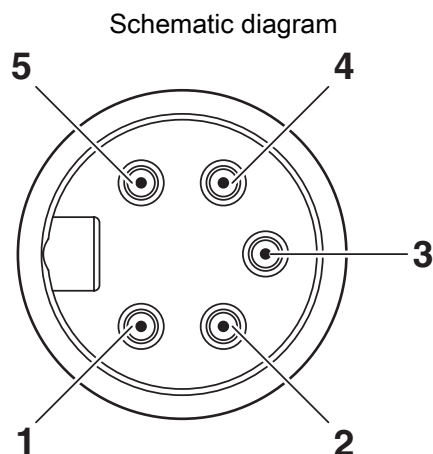
Pin assignment, plug, 7/8"-16UNF, 5-pos., view of male side

Schematic diagram
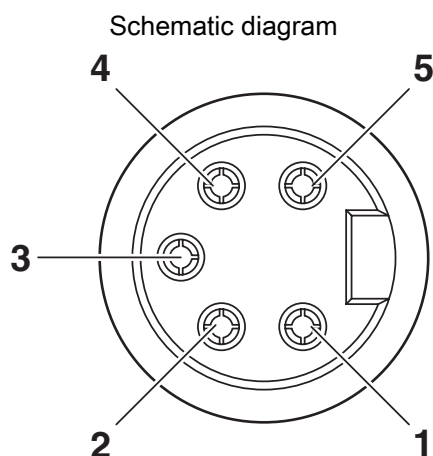
Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side

Circuit diagram

1	1 --- (Drain)
2	2 RD (V+)
3	3 BK (V-)
4	4 WH (CAN_H)
5	5 BU (CAN_L)

Contact assignment of 7/8" plugs/sockets

Classifications

ECLASS

ECLASS-13.0	27060307

UNSPSC

UNSPSC 21.0	31251501

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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