

# SAC-5P- 2,0-U40/MINFS - Bus system cable



1416669

<https://www.phoenixcontact.com/us/products/1416669>

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

## Commercial Data

Item number	1416669
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	BF14
Product Key	BF1IMD
GTIN	4055626219325
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

#### 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
Number of positions	5
Sensor type	DeviceNet™
Application	Standard
Shielded	yes
Coding	A

### Material specifications

Color Handle area	gray
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 <sub>N</sub>	300 V AC 300 V DC
Nominal current I <sub>N</sub>	8 A
Protective circuit	unwired

### Signaling

Status display	No
Status display present	No

### Connection data

#### Conductor connection

Tightening torque	10 lb <sub>F</sub> -in. 1.12 Nm
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#### Pin assignment

Contact   Color (signal designation)   Contact (optional)	1   SR (shield)   1 (Socket) 2   RD (V+)   2 (Socket)
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	3   BK (V-)   3 (Socket)
	4   WH (CAN_H)   4 (Socket)
	5   BU (CAN_L)   5 (Socket)

## Connector

### Connection 1

Type	free cable end
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### Connection 2

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

## Cable/line

Cable length	2 m
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### 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 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
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Ambient temperature (operation)	-20 °C ... 75 °C (Plug / socket)
	-20 °C ... 75 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

## Standards and regulations

Other resistance	UL 2556
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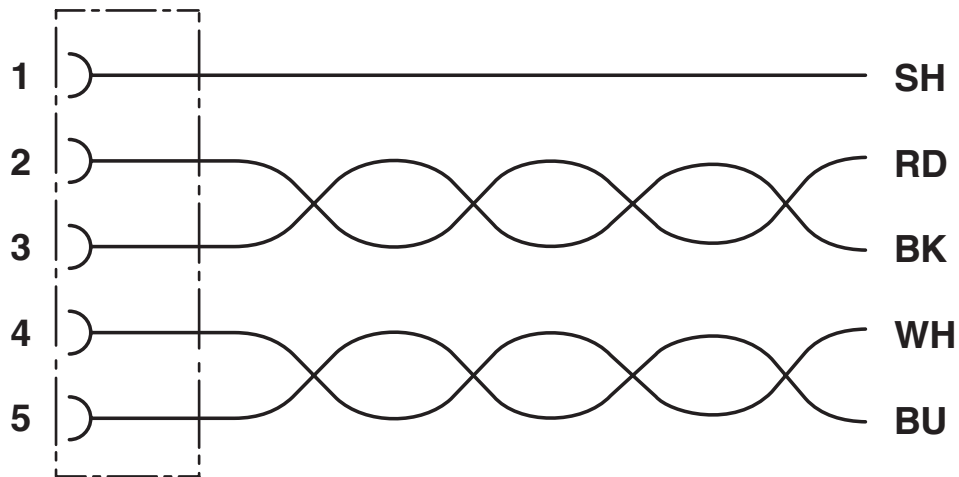
# SAC-5P- 2,0-U40/MINFS - Bus system cable

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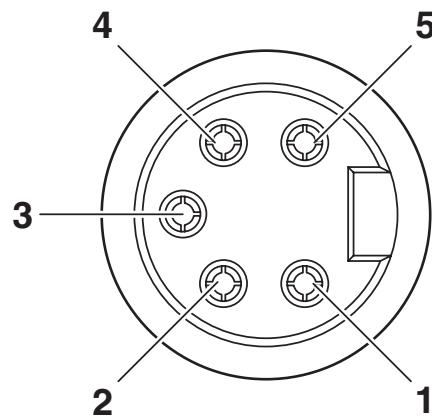
<https://www.phoenixcontact.com/us/products/1416669>

## Drawings

Circuit diagram



Schematic diagram



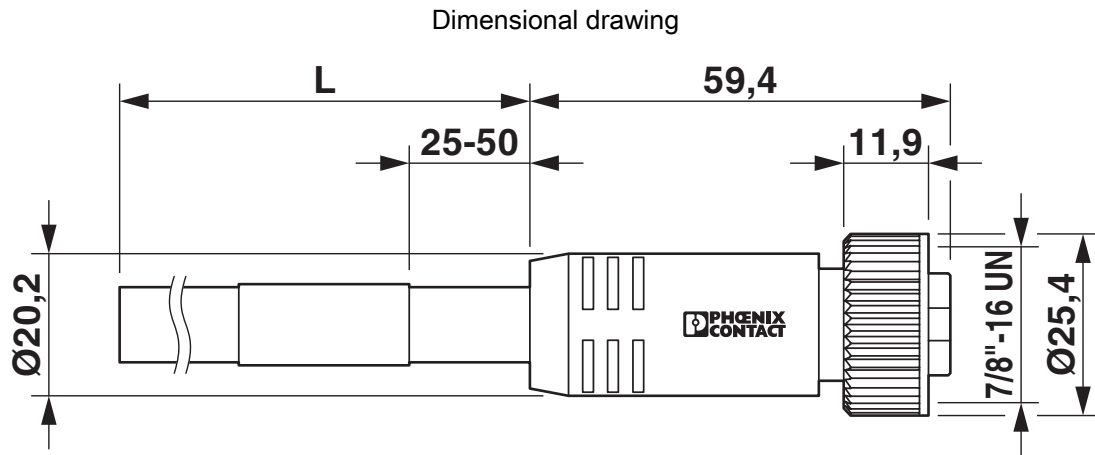
Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side

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7/8''-16UNF socket, straight

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## Approvals



**EAC**

Approval ID: RU C-DE.BL08.B.00286



**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

Approval ID: FILE E 221474

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## Classifications

### ECLASS

ECLASS-11.0	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307

### ETIM

ETIM 7.0	EC001855
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### 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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