

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



1416681

<https://www.phoenixcontact.com/us/products/1416681>

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

## Commercial data

Item number	1416681
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF14
Product key	AF1IMD
GTIN	4055626219363
Weight per piece (including packing)	436.1 g
Weight per piece (excluding packing)	418.7 g
Customs tariff number	85444290
Country of origin	MX

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## 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 <sub>N</sub>	300 V AC/DC (UL rating)
	50 V AC/DC (IEC rating)
Nominal current I <sub>N</sub>	8 A

### Signaling

Status display	no
Status display present	no

### Connection data

#### Conductor connection

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

#### Connection assignment

Contact   Color (signal designation)   Contact (optional)	1 (Plug)   SR (shield)   1
	2 (Plug)   RD (V+)   2
	3 (Plug)   BK (V-)   3
	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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## 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	FT4
Resistance to oil	OIL RES I
Other resistance	UV resistant (720 h)
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) (male connector/female connector)	-20 °C ... 75 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-20 °C ... 75 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

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## Drawings



7/8"-16UNF plug, straight



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

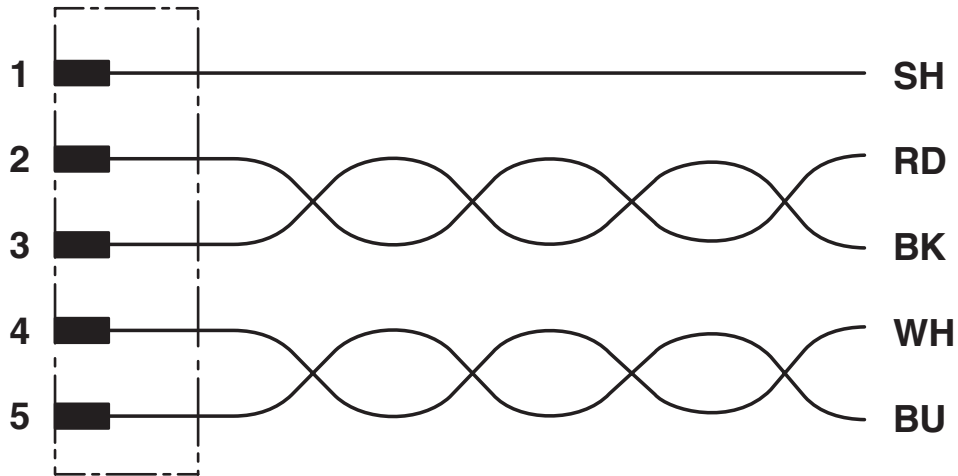
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Circuit diagram



Contact assignment of 7/8"

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## Approvals

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**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

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## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### ETIM

ETIM 10.0	EC001855
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### UNSPSC

UNSPSC 21.0	31251501
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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