

# SAC-5P-100,0-92X - Bus system cable



1422415

<https://www.phoenixcontact.com/us/products/1422415>

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By the meter, Bus system cable, CANopen®, DeviceNet™, shielded, FRNC halogen-free, black, 4-wire (2xAWG24/19+2xAWG22/19), color single wire: red-black, blue-white, cable length: 100 m, for outdoor applications

## Commercial data

Item number	1422415
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	00
Product key	AF1LFA
GTIN	4055626302645
Weight per piece (including packing)	6,432 g
Weight per piece (excluding packing)	6,407 g
Customs tariff number	85444995
Country of origin	DE

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## Technical data

### Product properties

Product type	Data cable by the meter
Sensor type	CANopen®
Number of positions	4
Shielded	yes

### Electrical properties

Transmission medium	Copper
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### Interfaces

Bus system	CANopen®/DeviceNet™
Signal type/category	CANopen® DeviceNet™

### Cable/line

Cable length	100 m
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CANopen®/DeviceNet™ outdoor installation, FRNC, black [92X]

Dimensional drawing	
Cable weight	70 kg/km
UL AWM Style	21281 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	CANopen®/DeviceNet™ outdoor installation, FRNC, black [92X]
Conductor structure	2xAWG24/19+2xAWG22/19
Signal runtime	4.46 ns/m
Conductor structure signal line	19x 0.13 mm
AWG signal line	24
Conductor structure, voltage supply	19x 0.16 mm
AWG power supply	22
Conductor cross section	2x 0.25 mm <sup>2</sup> (Signal) 2x 0.34 mm <sup>2</sup> (Power) 1x 0.38 mm <sup>2</sup> (Drain wire)
Wire diameter incl. insulation	1.9 mm (Signal) 1.4 mm (Power)

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External cable diameter	6.90 mm ±0.3 mm
Outer sheath, material	FRNC
External sheath, color	black
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	red-black, blue-white
Thickness, insulation	0.60 mm (Signal) 0.30 mm (Power)
Thickness, outer sheath	1.15 mm
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined foil
Overall twist	2 pairs around a drain wire in the center to the core
Optical shield covering	70 %
Max. conductor resistance	90 Ω/km (Signal) 55 Ω/km (Power)
Insulation resistance	≥ 200 MΩ*km (at 20 °C)
Wave impedance	120 Ω ±12 Ω (f = 1 MHz)
Working capacitance	39.8 nF (at 1 kHz, core/core)
Nominal voltage, cable	≤ 300 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	35 mm
Smallest bending radius, movable installation	69 mm
Halogen-free	yes
Flame resistance	According to IEC 60332-3-25 (Cat. D)
Resistance to oil	yes
Other resistance	UV resistant
Ambient temperature (operation)	-40 °C ... 105 °C
Ambient temperature (installation)	-40 °C ... 105 °C

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1422415>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00371

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## Classifications

### ECLASS

ECLASS-13.0	27061801
ECLASS-15.0	27061801

### ETIM

ETIM 9.0	EC003249
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### UNSPSC

UNSPSC 21.0	26121600
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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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### EF3.0 Climate Change

CO2e kg	137.23 kg CO2e
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