

# SAC-5P-M12FS/4,5-92X/M12FSSHOD - Bus system cable



1304630

<https://www.phoenixcontact.com/us/products/1304630>

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Bus system cable, 5-position, FRNC halogen-free, black, shielded (Tinned copper braided shield), Socket straight M12, coding: A, on Socket straight M12, coding: A, cable length: 4.5 m, for outdoor applications, with high-grade steel knurl

## Commercial data

Item number	1304630
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	BF1CKD
GTIN	4063151551780
Weight per piece (including packing)	344 g
Weight per piece (excluding packing)	344 g
Country of origin	PL

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## Technical data

### Product properties

Product type	Data cable preassembled
Number of positions	5
Application	External areas
No. of cable outlets	1
Shielded	yes
Coding	A

### Insulation characteristics

Degree of pollution	3
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### Interfaces

Bus system	CANopen <sup>®</sup> /DeviceNet <sup>™</sup>
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### Signaling

Status display	No
Status display present	No

### Electrical properties

Nominal voltage $U_N$	48 V AC
	60 V DC
Transmission medium	Copper

### Material specifications

Flammability rating according to UL 94	V0
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### Connector

#### Connection 1

Type	Socket straight M12
Number of positions	5
Coding type	A (Standard)

#### Connection 2

Type	Socket straight M12
Number of positions	5
Coding type	A (Standard)

### Cable/line

Cable length	4.5 m
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CANopen<sup>®</sup>/DeviceNet<sup>™</sup> outdoor installation, FRNC, black [92X]

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Dimensional drawing	
Cable weight	70 kg/km
UL AWM Style	21281 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	CANopen <sup>®</sup> /DeviceNet <sup>™</sup> 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 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)
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

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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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
	IP68
	IP69K

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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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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