

# SAC-5P-FS SCO /924/... - Bus system cable



1405796/924/1.0

<https://www.phoenixcontact.com/de/produkte/1405796?orderkey=MTQwNTc5Ni85MjQvMS4w>

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Bus system cable, CANopen<sup>®</sup>, DeviceNet<sup>™</sup>, 5-position, shielded, free cable end, on Socket straight M12, coding: A, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

## Commercial data

Item number	1405796/924/1.0
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	C1 - Sensor-Aktor-Kabel
Product key	BF1IHE
Customs tariff number	85444290
Country of origin	US

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## Technical data

### Product properties

Product type	Data cable preassembled
Sensor type	CANopen <sup>®</sup>
Number of positions	5
Application	Standard, U.S. cables
No. of cable outlets	1
Shielded	yes
Coding	A

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Approvals

#### National Marine Electronics Association

Certificate	approved
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### Interfaces

Bus system	CANopen <sup>®</sup> /DeviceNet <sup>™</sup>
Signal type/category	CANopen <sup>®</sup>
	DeviceNet <sup>™</sup>

### Signaling

Status display	No
Status display present	No

### Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	4 A
Transmission medium	Copper

### Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

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## Connector

### Connection 1

Type	free cable end
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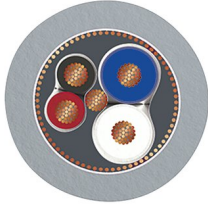
### Connection 2

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

## Cable/line

Cable length	Free input (0.2 ... 40.0 m)
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### CANopen<sup>®</sup>/DeviceNet<sup>™</sup>, PVC, gray [924]

Dimensional drawing	
Cable weight	64.51 kg/km
UL AWM Style	2464 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	CANopen <sup>®</sup> /DeviceNet <sup>™</sup> , PVC, gray [924]
Conductor structure	2xAWG22 (Signal) + 2xAWG22 (Power)
Signal runtime	4.46 ns/m
Conductor structure signal line	19x 0.15 mm
AWG signal line	22
Conductor cross section	2x 0.34 mm <sup>2</sup> (Signal line) 2x 0.34 mm <sup>2</sup> (Power supply)
Wire diameter incl. insulation	1.27 mm ±0.05 mm (Signal line) 2.24 mm ±0.13 mm (Power supply)
External cable diameter	6.9 mm ±0.13 mm
Outer sheath, material	PVC
External sheath, color	gray
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE (Signal line) PVC (Power supply)
Single wire, color	red-black, blue-white
Twisted pairs	2 cores to the pair

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Type of pair shielding	Plastic-coated aluminum foil, aluminum side inside
Overall twist	2 pairs around a drain wire in the center to the core
Insulation resistance	≥ 59.38 Ω*m (Signal line)
	≥ 57.41 GΩ*km (Power supply)
Wave impedance	120 Ω ±12 Ω
Working capacitance	nom. 78.74 pF (per meter)
Minimum bending radius, flexible installation	15 x D
Shield attenuation	0.95 dB (f = 125 kHz)
	1.64 dB (f = 500 kHz)
	2.3 dB (f = 1 MHz)
Flame resistance	FT4
Resistance to oil	yes
Other resistance	UV resistant
Special properties	UL standards PLTC and ITC
Ambient temperature (operation)	-30 °C ... 75 °C (cable, fixed installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

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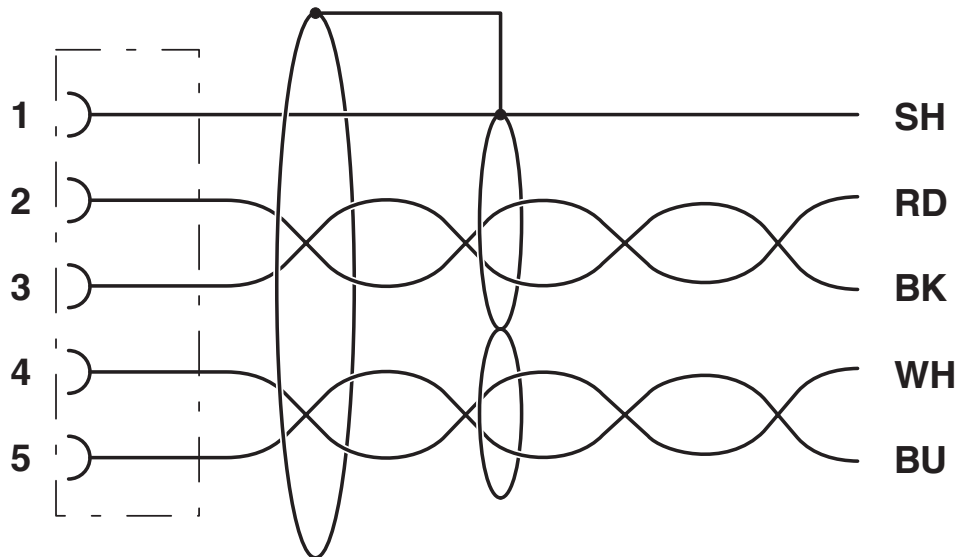
# SAC-5P-FS SCO /924/... - Bus system cable

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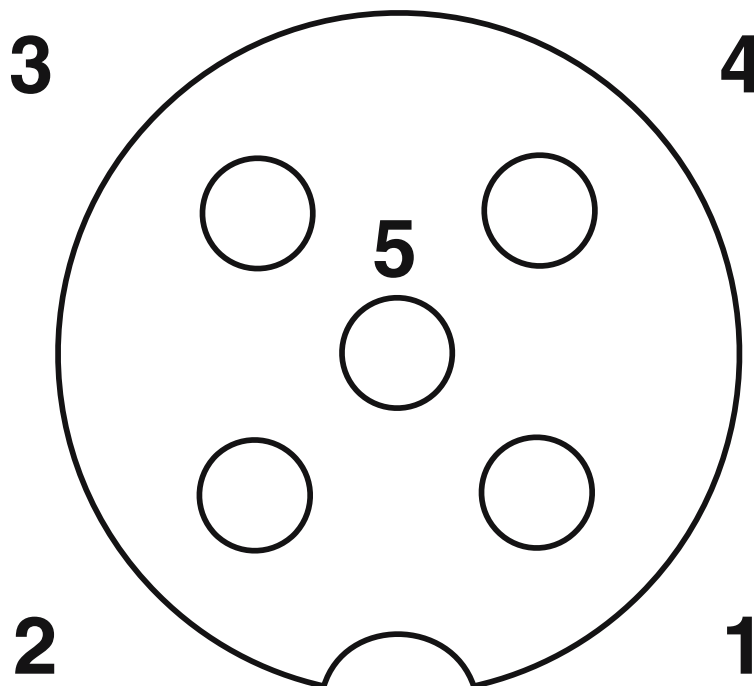
<https://www.phoenixcontact.com/de/produkte/1405796?orderkey=MTQwNTc5Ni85MjQvMS4w>

## Drawings

Circuit diagram



Schematic diagram



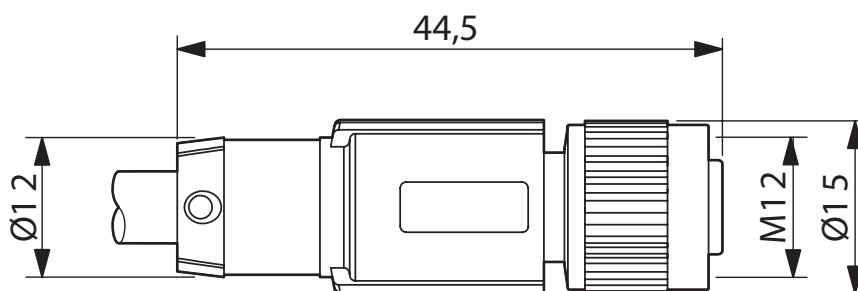
Pin assignment M12 socket, 5-pos., A-coded, socket side view

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Dimensional drawing



M12 x 1 socket, straight

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## Approvals

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### EAC

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



### UL Listed

Approval ID: FILE E 221474

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	60 V	4 A	-	-



### cUL Listed

Approval ID: FILE E 221474

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	60 V	4 A	-	-



### EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

### cULus Listed

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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	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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