

1405986

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Bus system cable, CANopen®, DeviceNet™, 5-position, PVC, gray, shielded, free cable end, on Socket straight M12, coding: A, cable length: 2 m, Connector unshielded

Commercial data

Item number	1405986
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF15
Product key	AF1IHE
GTIN	4046356800426
Weight per piece (including packing)	138 g
Weight per piece (excluding packing)	138 g
Customs tariff number	85444290
Country of origin	US

# SAC-5P- 2,0-924/FS SCO - Bus system cable



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## Technical data

### Product properties

Product type	Data cable preassembled
Application	Standard, U.S. cables
Sensor type	CANopen®
Number of positions	5
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®/DeviceNet™
Signal type/category	CANopen®
	DeviceNet™

### Signaling

Status display	no
Status display present	no

### Electrical properties

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)

## Cable/line

Cable length	2 m
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### CANopen®/DeviceNet™, 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®/DeviceNet™, 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 structure, voltage supply	19x 0.15 mm
AWG power supply	22
Conductor cross section	2x 0.34 mm² (Signal line) 2x 0.34 mm² (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	6.90 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

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Twisted pairs	2 cores to the pair
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	$\geq 59.38 \Omega \cdot \text{m}$ (Signal line)
	$\geq 57.41 \text{ G}\Omega \cdot \text{km}$ (Power supply)
Wave impedance	$120 \Omega \pm 12 \Omega$
Working capacitance	nom. $78.74 \text{ pF}$ (per meter)
Minimum bending radius, flexible installation	$15 \times D$
Smallest bending radius, movable installation	104 mm
Shield attenuation	0.95 dB ( $f = 125 \text{ kHz}$ )
	1.64 dB ( $f = 500 \text{ kHz}$ )
	2.30 dB ( $f = 1 \text{ MHz}$ )
Flame resistance	FT4
Resistance to oil	yes
Other resistance	UV resistant
Special properties	UL standards PLTC and ITC
Ambient temperature (operation)	$-30 \text{ }^{\circ}\text{C} \dots 75 \text{ }^{\circ}\text{C}$ (cable, fixed installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	$-25 \text{ }^{\circ}\text{C} \dots 90 \text{ }^{\circ}\text{C}$ (Plug / socket)

## Approvals

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# SAC-5P- 2,0-924/FS SCO - Bus system cable

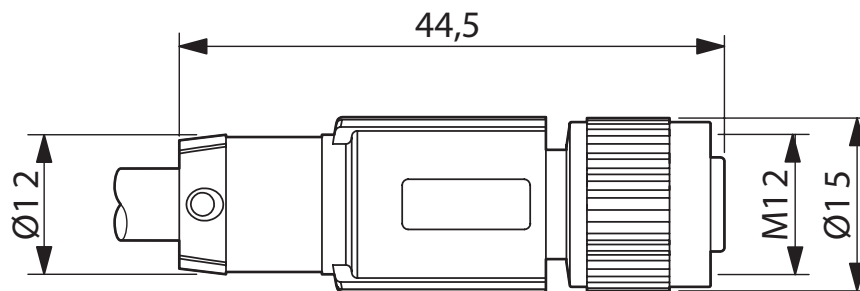


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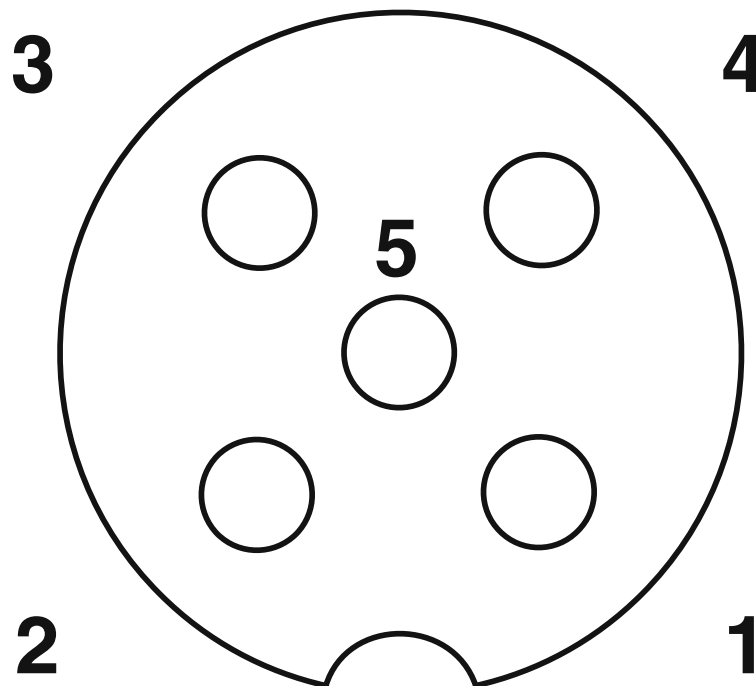
## Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



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

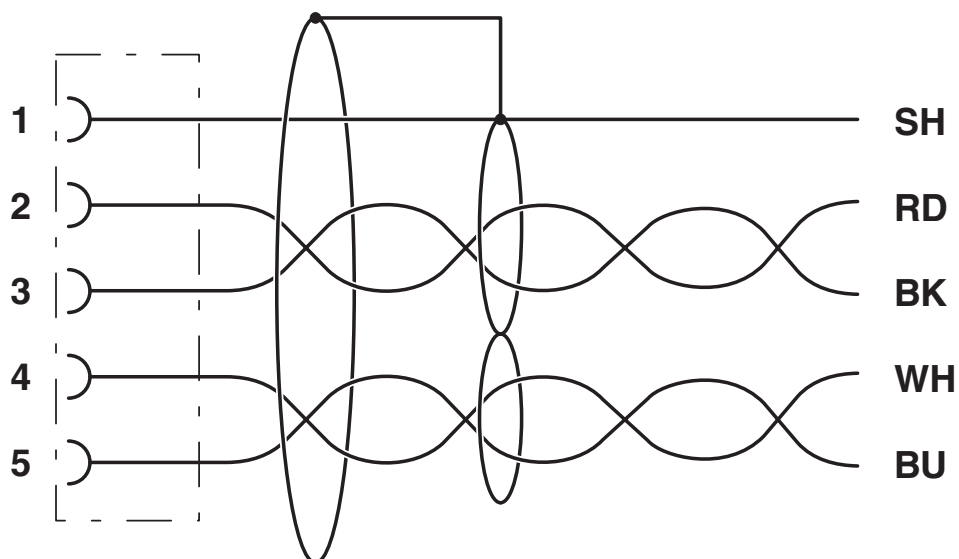
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Circuit diagram



Contact assignment of the M12 socket

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## Approvals

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### UL Listed

Approval ID: FILE E 221474

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	125 V	4 A	-	-



### cUL Listed

Approval ID: FILE E 221474

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	125 V	4 A	-	-



### EAC-RoHS

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

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## Classifications

### ECLASS

ECLASS-13.0	27060307
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### ETIM

ETIM 9.0	EC001855
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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.)	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)(CAS: 123-77-3)
SCIP	9f6fabe6-6126-48cf-bcec-49833060d8a3

### EF3.0 Climate Change

CO2e kg	1.933 kg CO2e
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)