

1405986

<https://www.phoenixcontact.com/au/products/1405986>

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Bus system cable, CANopen[®], DeviceNet[™], 5-position, PVC, gray, shielded (Plastic-coated aluminum foil with a filler litz wire, aluminum side outside), 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	50 pc
Note	Made to order (non-returnable)
Sales key	BF1IHE
Product key	BF1IHE
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
Sensor type	CANopen [®]
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 [®] /DeviceNet [™]
Signal type/category	CANopen [®]
	DeviceNet [™]

Signaling

Status display	No
Status display present	No

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	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 cross section	2x 0.34 mm ² (Signal line) 2x 0.34 mm ² (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
Twisted pairs	2 cores to the pair
Type of pair shielding	Plastic-coated aluminum foil, aluminum side inside

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Overall twist	2 pairs around a drain wire in the center to the core
Insulation resistance	$\geq 59.38 \Omega \cdot m$ (Signal line)
	$\geq 57.41 G\Omega \cdot km$ (Power supply)
Wave impedance	$120 \Omega \pm 12 \Omega$
Working capacitance	nom. $78.74 pF$ (per meter)
Minimum bending radius, flexible installation	$15 \times D$
Smallest bending radius, movable installation	104 mm
Shield attenuation	0.95 dB ($f = 125 kHz$)
	1.64 dB ($f = 500 kHz$)
	2.30 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)	$-30 ^\circ C \dots 75 ^\circ C$ (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

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

Approvals

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

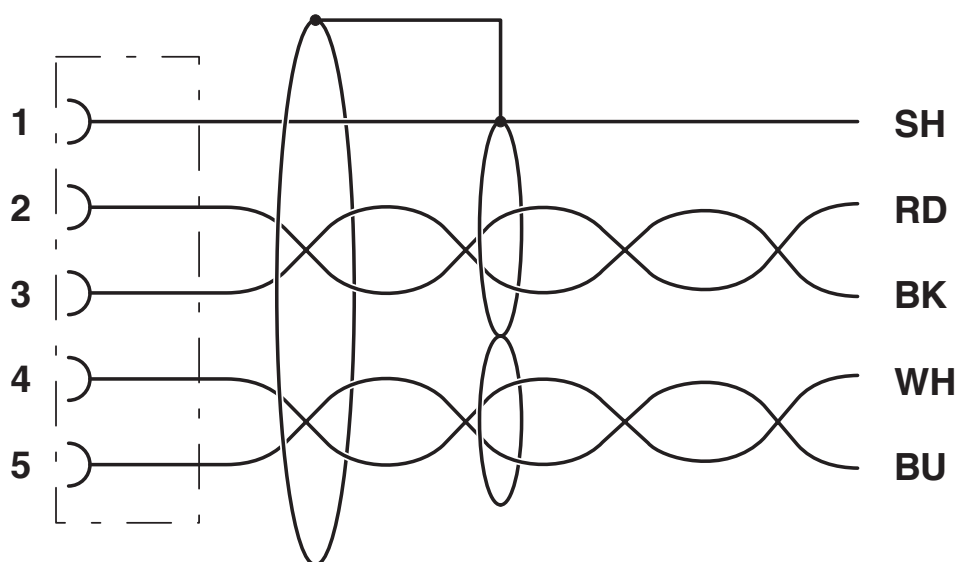


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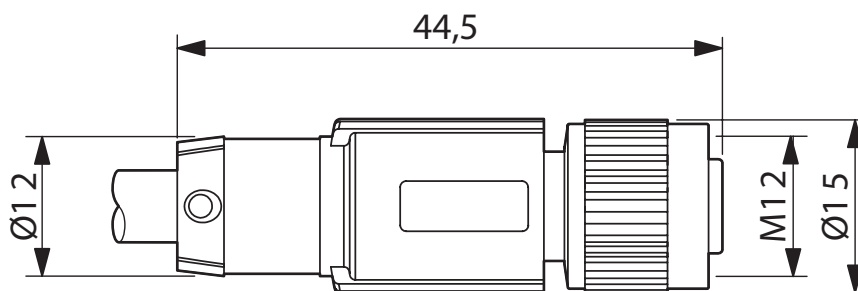
<https://www.phoenixcontact.com/au/products/1405986>

Drawings

Circuit diagram

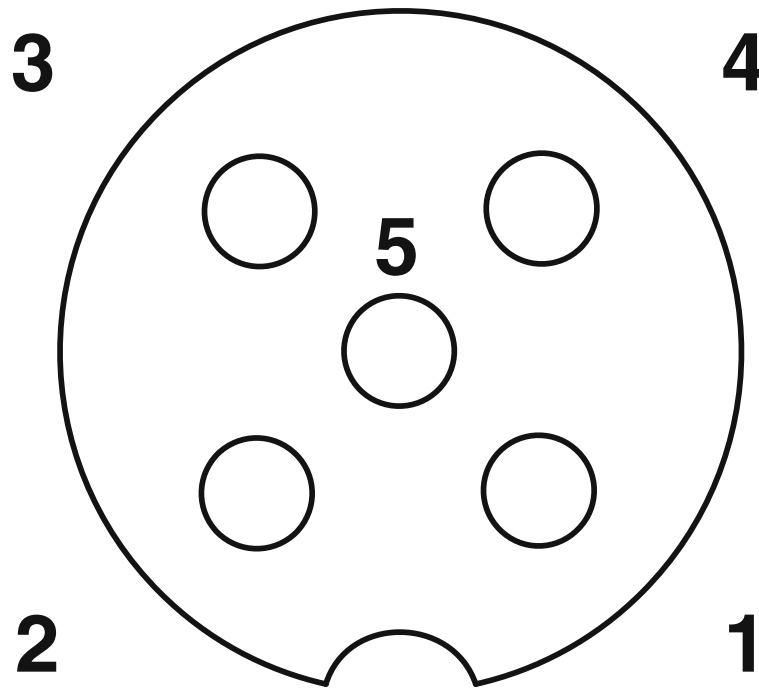


Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



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

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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 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 mm^2
	125 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 9.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

REACH SVHC	Diazen-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) 123-77-3
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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