

1405989
<https://www.phoenixcontact.com/us/products/1405989>

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Bus system cable, CANopen®, DeviceNet™, 5-position, PVC, gray, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 0.5 m, Connector unshielded

Commercial data

Item number	1405989
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF15
Product key	BF1IHE
GTIN	4046356800396
Weight per piece (including packing)	51.4 g
Weight per piece (excluding packing)	53.1 g
Customs tariff number	85444290
Country of origin	US

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

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 _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

Connector

Connection 1

Type	Plug straight M12
Number of positions	5

SAC-5P-M12MS/ 0,5-924/M12FS - Bus system cable



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Coding type	A (Standard)
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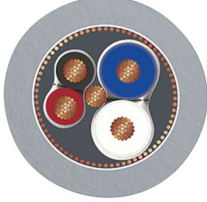
Connection 2

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

Cable/line

Cable length	0.5 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 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	
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	≥ 59.38 Ω*m (Signal line)	
	≥ 57.41 GΩ*km (Power supply)	
Wave impedance	120 Ω ±12 Ω	

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Working capacitance	nom. 78.74 pF (per meter)
Minimum bending radius, flexible installation	15 x 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 °C ... 75 °C (cable, fixed installation)

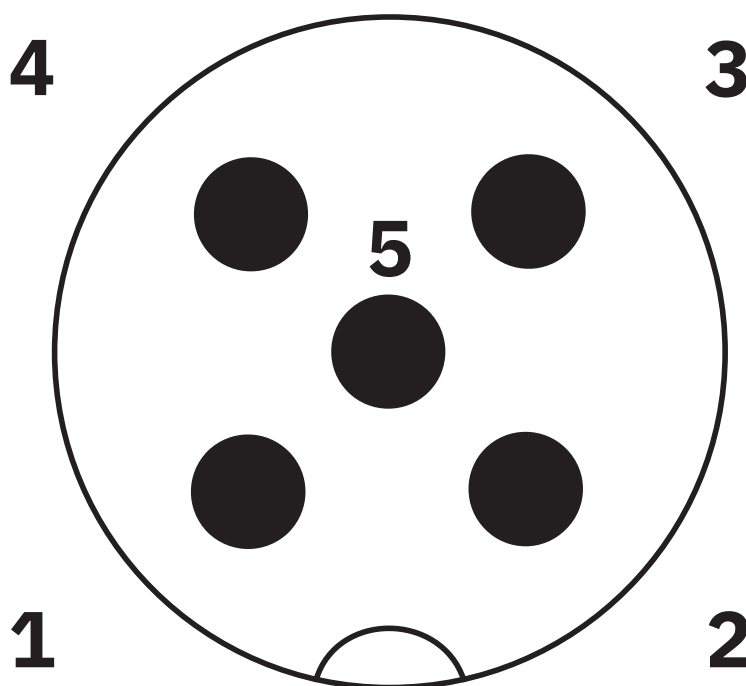
Environmental and real-life conditions

Ambient conditions

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

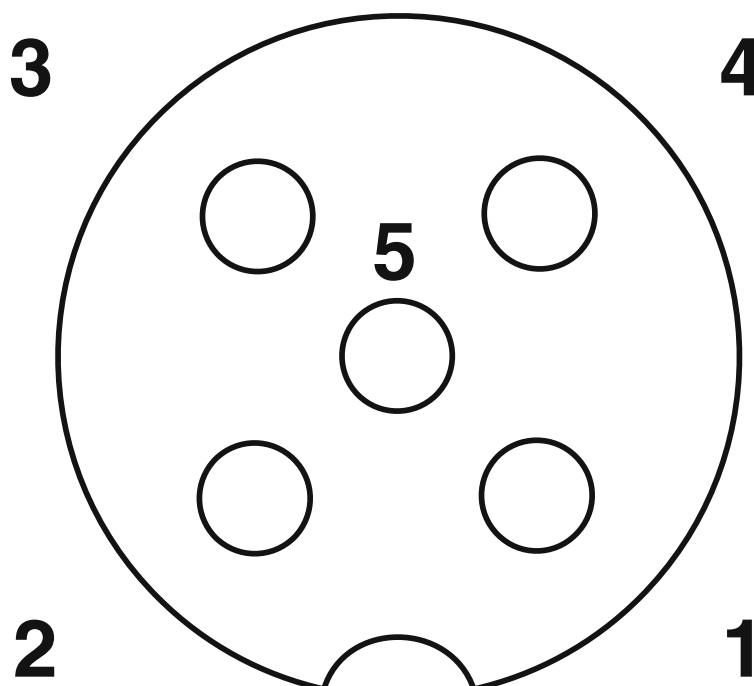
Drawings

Schematic diagram



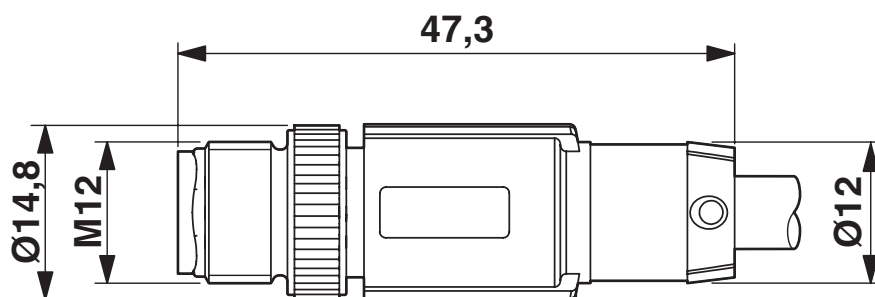
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



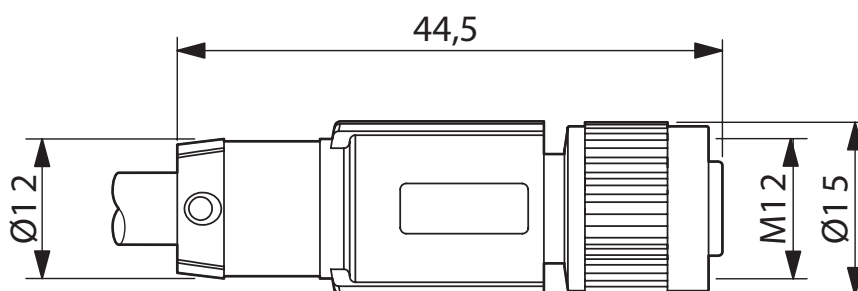
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Dimensional drawing



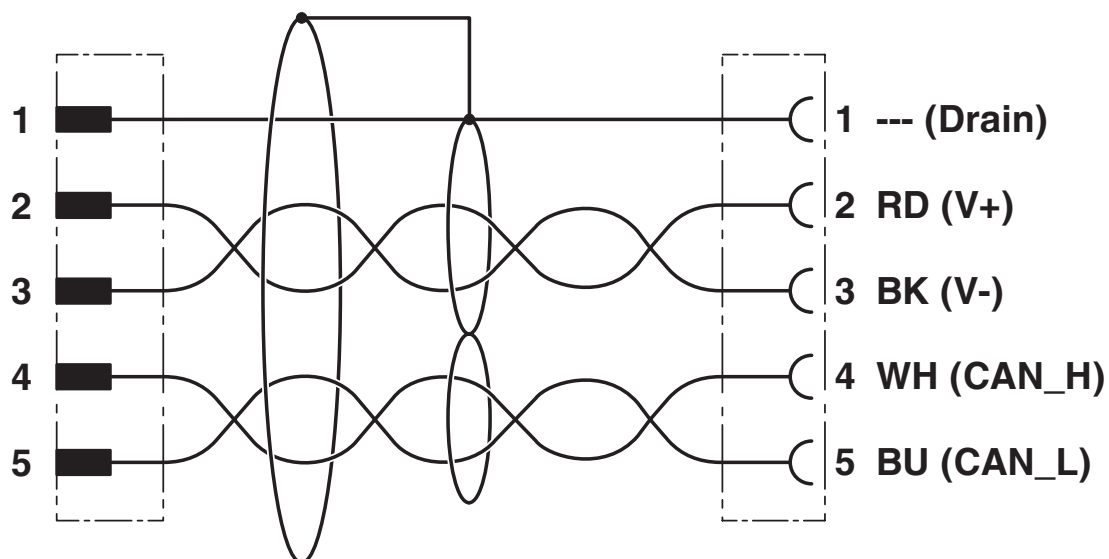
M12 x 1 plug, straight

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1405989>

 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	-	-

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

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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	5edda8a7-5c7e-4dd9-bf3e-5cabae95cd00