

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Bus system cable, CANopen[®], DeviceNet[™], 5-position, PVC, gray, shielded (Plastic-coated aluminum foil with a filler litz wire, aluminum side outside), 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

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



1405989

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

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

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

Connector

Connection 1

Type	Plug straight M12
------	-------------------

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



1405989

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

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	0.5 m
--------------	-------

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	
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)	

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



1405989

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

Wave impedance	120 Ω $\pm$ 12 Ω
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)

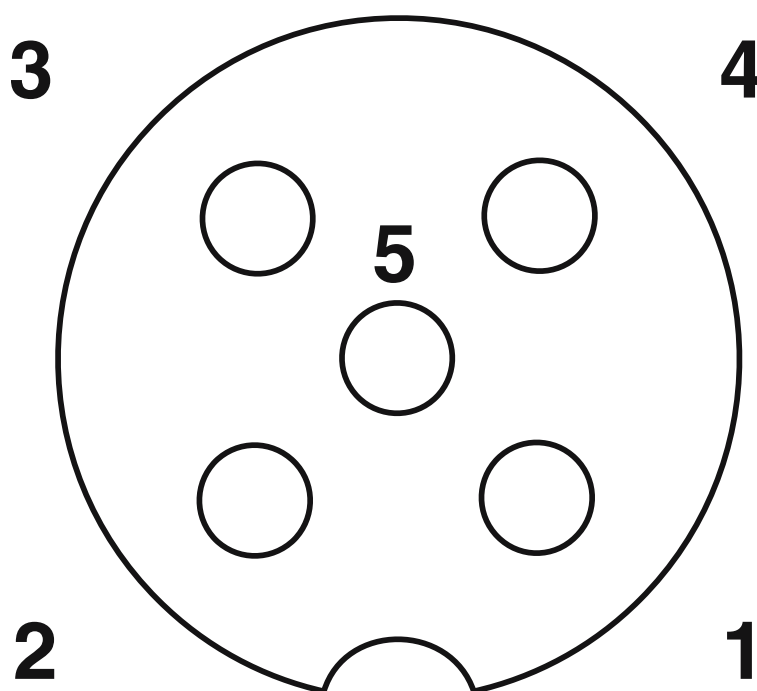
Environmental and real-life conditions

Ambient conditions

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

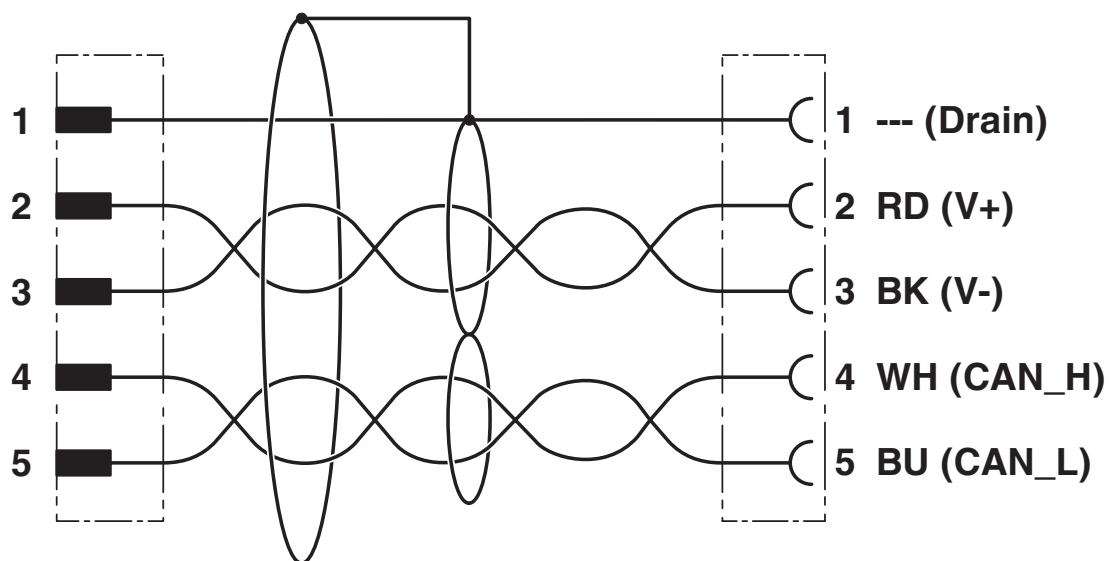
Drawings

Schematic diagram

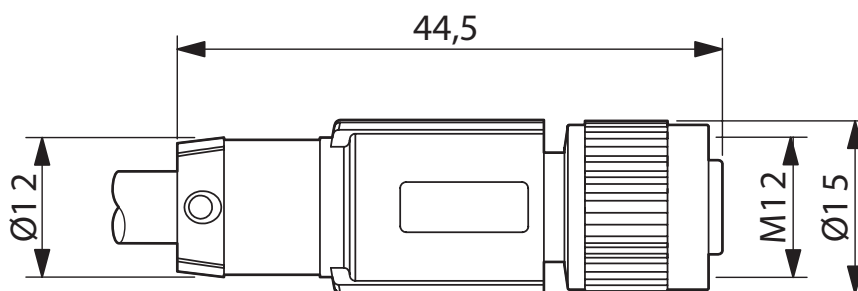


Pin assignment M12 socket, 5-pos., A-coded, socket side view

Circuit diagram

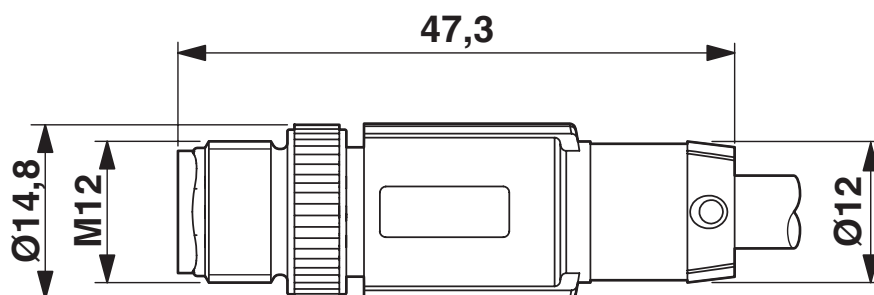


Dimensional drawing



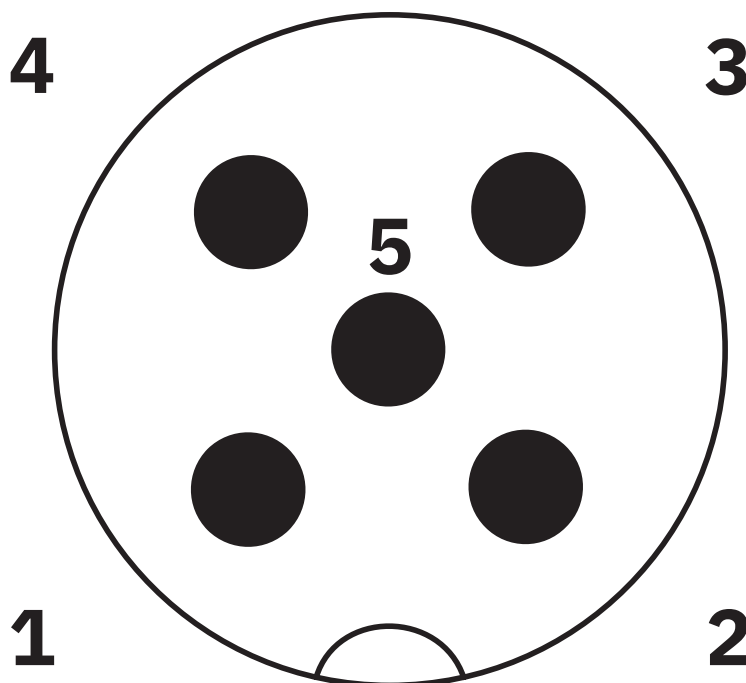
M12 x 1 socket, straight

Dimensional drawing



M12 x 1 plug, straight

Schematic diagram



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

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

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

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



1405989

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

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

Environmental product compliance

REACH SVHC	Diazen-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) 123-77-3
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com