

1529962

https://www.phoenixcontact.com/us/products/1529962

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.



Sensor/actuator cable, 8-position halogen-free, shielded, Plug straight M12, coding: A, on free cable end, cable length: 0.5 m

### Commercial data

Item number	1529962
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	BF1CMA
GTIN	4017918989842
Weight per piece (including packing)	52.16 g
Weight per piece (excluding packing)	52.16 g
Customs tariff number	85444290
Country of origin	PL



1529962

https://www.phoenixcontact.com/us/products/1529962

### Technical data

#### Product properties

Product type	Sensor/actuator cable
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	A
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

#### Material specifications

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

### Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	2 A

### Mechanical properties

Mec	hanical	data

Insertion/withdrawal cycles	≥ 100
-----------------------------	-------

### Signaling

Status display	No
Status display present	No

#### Connector

#### Connection 1

Туре	Plug straight M12
Number of positions	8
Coding type	A
Number of positions	8

#### Connection 2



1529962

https://www.phoenixcontact.com/us/products/1529962

Туре	free cable end
e/line	
Cable length	0.5 m
R halogen-free black [PUR]	
Dimensional drawing	
Cable weight	53 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	8
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	8x 0.25 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	5.9 mm ±0.2 mm
Outer sheath, material	PUR
external sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
laterial wire insulation	PP
Single wire, color	brown, white, green, yellow, gray, pink, blue, red
hickness, insulation	approx. 0.2 mm
hickness, outer sheath	approx. 0.5 mm
Overall twist	8 wires around filler to the core
ptical shield covering	85 %
Max. conductor resistance	≤ 78 Ω/km (at 20 °C)
nsulation resistance	≥ 1 GΩ*km (at 20 °C)
lominal voltage, cable	≤ 300 V AC
Fest voltage	≥ 3000 V AC (Spark test)
Fest voltage Core/Shield	≥ 2000 V AC (for 60 s)
ninimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	2000000
Halogen-free	
	in accordance with DIN VDE 0472 part 815
	in accordance with DIN VDE 0472 part 815 according to IEC 60754-1



1529962

https://www.phoenixcontact.com/us/products/1529962

Flame resistance	according to UL 758/1581 (horizontal)
	in accordance with UL 758/1581 FT2
	According to DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with IEC 60811-404
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
	low-abrasion
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Special properties	Flexible cable conduit capable
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP65	
	IP67	
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)	
	-25 °C 80 °C (cable, fixed installation)	
	-5 °C 80 °C (Cable, flexible installation)	

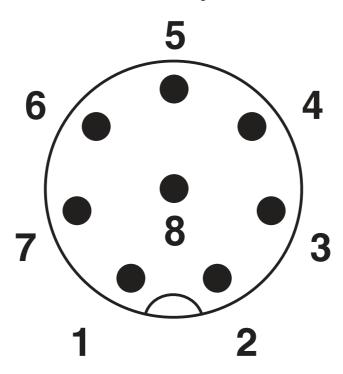


1529962

https://www.phoenixcontact.com/us/products/1529962

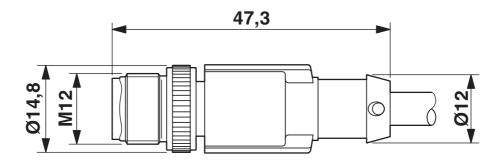
## **Drawings**

Schematic diagram



Pin assignment M12 plug, 8-pos., A-coded, view plug side

Dimensional drawing



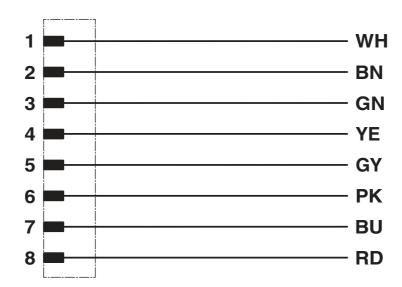
Plug, M12 x 1, straight, shielded



1529962

https://www.phoenixcontact.com/us/products/1529962

### Circuit diagram





1529962

https://www.phoenixcontact.com/us/products/1529962

### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1529962

<u> </u>	<b>UL Listed</b> Approval ID: FILE E 221474				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	2 A	-	-

• <u>®</u>	<b>cUL Listed</b> Approval ID: FILE E 221474				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	2 A	-	-

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

cULus Listed



1529962

https://www.phoenixcontact.com/us/products/1529962

## Classifications

UNSPSC 21.0

#### **ECLASS**

27060311				
27060311				
27060311				
ETIM				
EC001855				
UNSPSC				

26121600



1529962

https://www.phoenixcontact.com/us/products/1529962

## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Phoenix Contact 2023 © - 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