

1523036

https://www.phoenixcontact.com/us/products/1523036

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, PUR halogen-free, black-gray RAL 7021, shielded (Tinned copper braided shield), Plug straight M12, coding: A, on Socket angled M12, coding: A, cable length: 1.5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1523036
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CMA
Catalog page	Page 211 (C-2-2019)
GTIN	4017918957780
Weight per piece (including packing)	109.7 g
Weight per piece (excluding packing)	106.2 g
Customs tariff number	85444290
Country of origin	PL



1523036

https://www.phoenixcontact.com/us/products/1523036

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
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
Seal material	NBR
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

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	2 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)
-------------------	------------------------

Connector

Connection 1



1523036

https://www.phoenixcontact.com/us/products/1523036

Туре	Plug straight M12
Number of positions	8
Coding type	A
Connection 2	
Connection 2 Type	Socket angled M12
	Socket angled M12

Cable/line

Cable length	1.5 m
--------------	-------

PUR 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	5.90 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, green, yellow, gray, pink, blue, red
Thickness, insulation	approx. 0.20 mm
Thickness, outer sheath	approx. 0.50 mm
Overall twist	8 wires around filler to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 78 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 V AC (Spark test)
Test voltage Core/Shield	≥ 2000.00 V AC (for 60 s)



1523036

https://www.phoenixcontact.com/us/products/1523036

5 x D
10 x D
30 mm
59 mm
2000000
in accordance with DIN VDE 0472 part 815
according to IEC 60754-1
in acc. with UL FT-2
according to UL 758/1581 (horizontal)
in accordance with UL 758/1581 FT2
According to DIN EN 60332-2-2 (20 s)
in accordance with IEC 60811-404
hydrolysis and microbe resistant
Resistant to salt water
low-abrasion
partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Flexible cable conduit capable
-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)

Standards and regulations

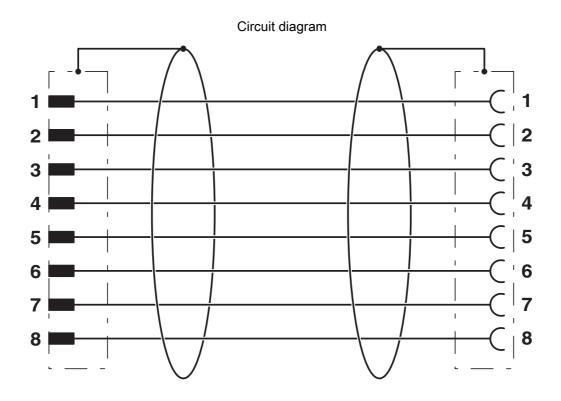
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



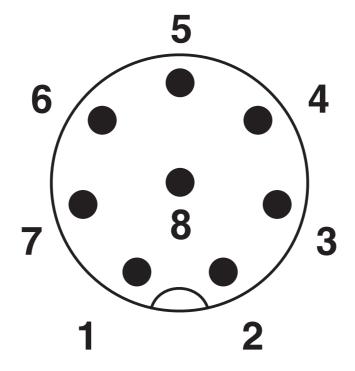
1523036

https://www.phoenixcontact.com/us/products/1523036

Drawings



Schematic diagram



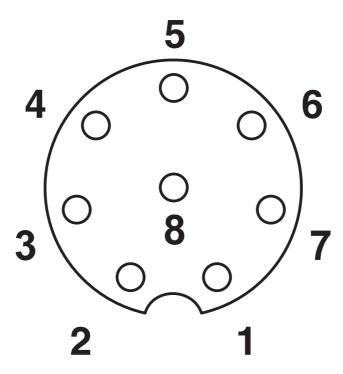
Pin assignment M12 plug, 8-pos., view plug side



1523036

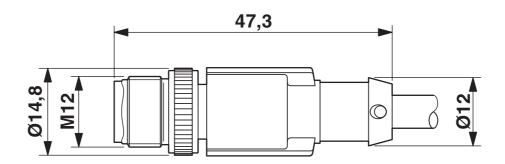
https://www.phoenixcontact.com/us/products/1523036

Schematic diagram



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

Dimensional drawing



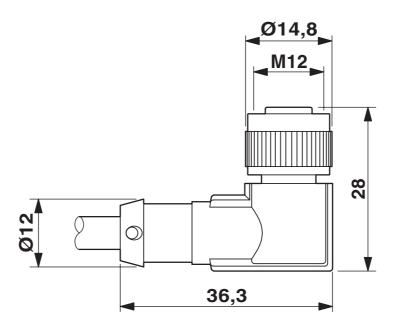
Plug, M12 x 1, straight, shielded



1523036

https://www.phoenixcontact.com/us/products/1523036

Dimensional drawing



M12 x 1 socket, angled, shielded



1523036

https://www.phoenixcontact.com/us/products/1523036

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1523036

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

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

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

cULus Listed



1523036

https://www.phoenixcontact.com/us/products/1523036

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27060311	
ECLASS-12.0	27060311	
ECLASS-13.0	27060311	
ETIM		
ETIM 9.0	EC001855	
UNSPSC		

26121600



1523036

https://www.phoenixcontact.com/us/products/1523036

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.)	No substance above 0.1 wt%



1523036

https://www.phoenixcontact.com/us/products/1523036

Accessories

PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

https://www.phoenixcontact.com/us/products/1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



SAC-M12-EXCLIP-M - Locking clip

1558988

https://www.phoenixcontact.com/us/products/1558988



Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



1523036

https://www.phoenixcontact.com/us/products/1523036

PROT-M12 MS-PA-CHAIN - Screw plug

1430899

https://www.phoenixcontact.com/us/products/1430899

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



SAC-M12-EXCLIP-F - Locking clip

1558991

https://www.phoenixcontact.com/us/products/1558991



Locking clip for the socket side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



1523036

https://www.phoenixcontact.com/us/products/1523036

B-STIFT - Marker pen

1051993

https://www.phoenixcontact.com/us/products/1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/us/products/1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors



1523036

https://www.phoenixcontact.com/us/products/1523036

TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits



1523036

https://www.phoenixcontact.com/us/products/1523036

SAC BIT M12-D15 - Tool

1208432

https://www.phoenixcontact.com/us/products/1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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