

1096015

https://www.phoenixcontact.com/us/products/1096015

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Sensor/actuator cable, 4-position, PVC, gray, shielded, Plug straight M12, coding: A, on free cable end, cable length: 5 m, Foil shielding plus drain wire

### **Commercial Data**

Item number	1096015
Packing unit	1 pc
Note	Made to Order (non-returnable)
Sales Key	BF13
Product Key	BF1IEB
GTIN	4055626929668
Weight per Piece (including packing)	22.22 g
Weight per Piece (excluding packing)	22.22 g
Country of origin	US



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### **Technical Data**

### Product properties

Product type	Sensor/actuator cable
Number of positions	4
Application	Standard, U.S. cables
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	CuSn
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	≥ 10 MΩ
Nominal voltage U <sub>N</sub>	250 V AC
	250 V DC
Nominal current I <sub>N</sub>	4 A
Protective circuit	unwired

### 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



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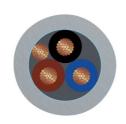
Connection	1

Coding type	A
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### Cable/line

### PVC, gray, 105°C [680]

### Dimensional drawing



Cable weight	35.4 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	3
Shielded	yes
Cable type	PVC, gray, 105°C [680]
AWG signal line	22
Wire diameter incl. insulation	1.27 mm ±0.03 mm
External cable diameter	4.75 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PVC (Signal line)
Single wire, color	brown, blue, black
Type of pair shielding	Plastic-coated aluminum foil, aluminum side inside
Overall twist	Conductors, fillers, and drain wire are twisted with left-hand lay
Max. conductor resistance	max. 51.1 Ω/km (20 °C)
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Nominal voltage, cable	300 V
Minimum bending radius, flexible installation	8 x D
Flame resistance	FT4
Other resistance	UV resistant
Special properties	UL standards PLTC and ITC
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP65
	IP67



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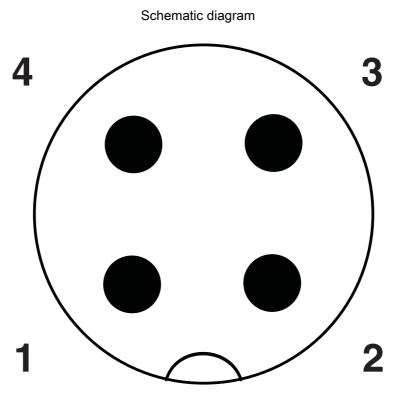
	IP68
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)
Standards and regulations	
Standards/specifications	IEC 61076-2-101



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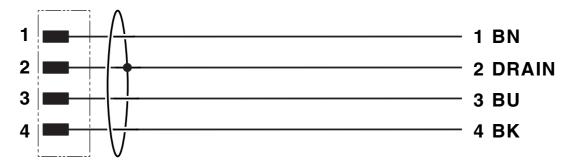
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### **Drawings**



Pin assignment M12 plug, 4-pos., A-coded, view plug side

### Circuit diagram

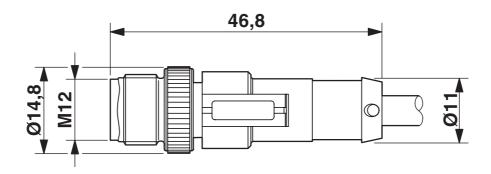




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### Dimensional drawing



Plug, M12 x 1, straight, shielded



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### Approvals

<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>
		300 V	4 A	-	-

•	<b>cUL Listed</b> Approval ID: FILE E 22147	74			
		Nominal Voltage $U_N$	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		300 V	4 A	-	-



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### Classifications

### **ECLASS**

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

### **UNSPSC**

UNSPSC 21.0	31251501	



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### 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



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### 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



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### 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

### 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



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### 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

### 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

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