

1410251

https://www.phoenixcontact.com/us/products/1410251

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Sensor/actuator cable, 3-position, TPE, yellow, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 2 m

### Commercial data

Item number	1410251
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF1IFA
GTIN	4055626048628
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US



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### Technical data

### Product properties

Product type	Sensor/actuator cable
Application	Standard, U.S. cables
Number of positions	3
No. of cable outlets	1
Shielded	no
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
Outer sheath, material	TPE

### Electrical properties

Nominal voltage U <sub>N</sub>	250 V AC
	250 V DC
Nominal current I <sub>N</sub>	4 A

### Signaling

Status display	No
Status display present	No

### Connection data

### Conductor connection

Tightening torque	0.4 Nm (M12 connector)

#### Connector

#### Connection 1

Туре	Plug straight M12 SPEEDCON
Locking type	SPEEDCON
Coding type	A

Connection 2	
Type	free cable end



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### С

Cable/line	
Cable length	2 m
TPE yellow 105 °C [647]	
Dimensional drawing	
Cable weight	23 kg/km
UL AWM Style	20327 (105 °C / 300 V)
Number of positions	3
Shielded	no
Cable type	TPE yellow 105 °C [647]
Conductor structure signal line	41x 0.16 mm
AWG signal line	18
Wire diameter incl. insulation	1.8 mm
External cable diameter	5.70 mm ±0.25 mm
Outer sheath, material	TPE
External sheath, color	yellow
Material wire insulation	PVC
Thickness, insulation	0.23 mm
Thickness, outer sheath	0.89 mm
Overall twist	3 wires, twisted
Nominal voltage, cable	300 V
Flame resistance	According to FT1
Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (720 h) (to UL 2256)

#### Environmental and real-life conditions

Ambient temperature (operation)

#### Ambient conditions

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

-30 °C ... 105 °C (cable, fixed installation)

### Standards and regulations

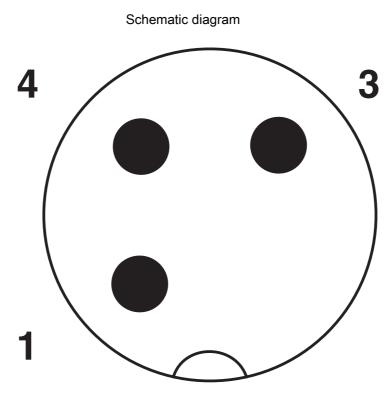
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



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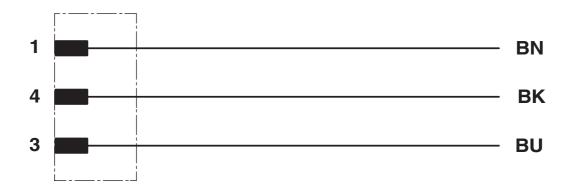
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### Drawings



Pin assignment M12 plug, 3-pos., A-coded, view male side

Circuit diagram

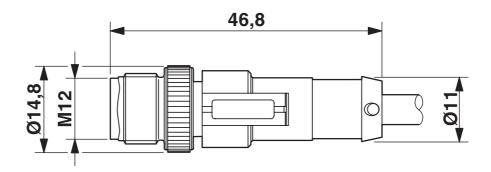




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### Dimensional drawing



Plug, M12 x 1, straight, shielded



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### Classifications

### **ECLASS**

ECLASS-11.0	27060311
ECLASS-13.0	27060311



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### Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)

No substance above 0.1 wt%



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