

1424959

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Sensor/actuator cable, 5-position, PVC, yellow, Plug straight M12, coding: A, on free cable end, cable length: 2 m

Commercial data

Item number	1424959
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF1IFC
GTIN	4055626402062
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	5	
No. of cable outlets	1	
Shielded	no	
Coding	A	
Insulation characteristics		
Overvoltage category	Ш	
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	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	PVC

Electrical properties

Insulation resistance	≥ 10 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection	
Tightening torque	0.4 Nm (M12 connector)

Connector

Connection 1 Type	Plug straight M12	
Coding type	A	



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Туре	free cable end
e/line	
Cable length	2 m
′C AWG 18 yellow 105°C [547]	
Dimensional drawing	
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	5
Shielded	no
Cable type	PVC AWG 18 yellow 105°C [547]
Conductor structure signal line	41x 0.16 mm
AWG signal line	18
Wire diameter incl. insulation	1.7 mm ±0.03 mm
External cable diameter	6.60 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Tin-plated Cu litz wires
Material, filler	PP
Material wire insulation	PVC
Single wire, color	brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
Nominal voltage, cable	300 V
Minimum bending radius, fixed installation	8 x D
Smallest bending radius, fixed installation	53 mm
Flame resistance	FT4
Special properties	C(UL) CMX OUTDOOR-CMG 105 °C
	UL ITC/PLTC 105 °C
	CSA AWM I/II A/B FT4 105 °C / 300 V
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)

Environmental and real-life conditions

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





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Standards and regulations

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

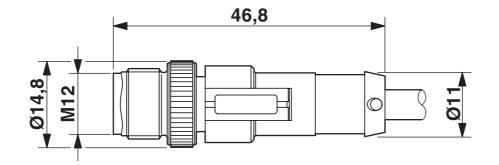


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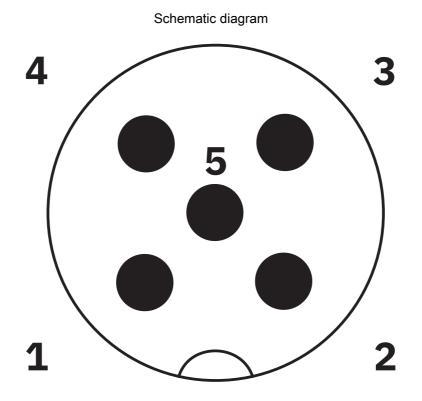
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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

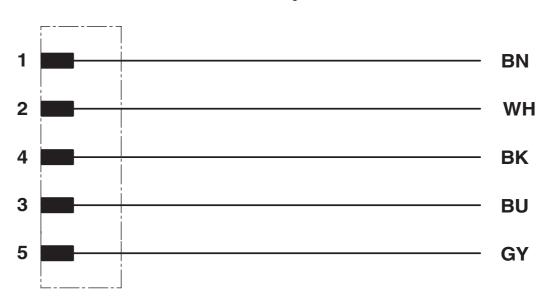


Pin assignment M12 male connector, 5-pos., A-coded, male side



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Circuit diagram



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Approvals

V: To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1424959

	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	4			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		125 V	4 A	-	-

cULus Listed



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Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC001855		
UN	UNSPSC			
	UNSPSC 21.0	26121600		

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
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

 $\mathsf{M12}$ sealing cap made of plastic with fixing band, for sensor cables, for free $\mathsf{M12}$ 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 $\rm Nm$



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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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