

1404150

https://www.phoenixcontact.com/us/products/1404150

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, shielded (Tinned copper braided shield), free cable end, coding: A, on Socket straight M8, coding: A, cable length: 10 m

Your advantages

- · Easy and safe: 100 % electrically tested plug-in components
- Save space with high-pos. connectors
- · Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1404150
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	BF1BNA
Catalog page	Page 210 (C-2-2019)
GTIN	4046356680684
Weight per piece (including packing)	473.2 g
Weight per piece (excluding packing)	452 g
Customs tariff number	85444290
Country of origin	PL



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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	
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
Electrical properties	
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	1.5 A
Mechanical properties	
Mechanical data	
Insertion/withdrawal cycles	≥ 100
Signaling	
Status display	No
Status display present	No
Connection data	
Conductor connection	
Tightening torque	0.2 Nm (M8 connectors)
Connector	
Connector Connection 1	



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Coding type	A	
Connection 2		
Туре	Socket straight M8	
Number of positions	8	
Coding type	A	

Cable/line

Cable length	10 m

PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	45 kg/km
UL AWM Style	20549
Number of positions	8
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	18x 0.10 mm
AWG signal line	26
Conductor cross section	8x 0.14 mm² (Signal line)
Wire diameter incl. insulation	1 mm ±0.02 mm (Signal line)
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, filler	PE
Material wire insulation	PP
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Thickness, insulation	≥ 0.21 mm (Signal line)
	≥ 0.38 mm (Outer cable sheath)
Overall twist	8 wires around filler to the core
Length of twist, overall twist	58 mm
Optical shield covering	85 %
Max. conductor resistance	139 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)



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Smallest bending radius, fixed installation	29.5 mm
Smallest bending radius, movable installation	59 mm
Max. bending cycles	2000000
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Flame resistance	according to UL 758/1581 (horizontal)
	in accordance with UL 758/1581 FT2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
	Low adhesion
	abrasion-resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
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 85 °C (Plug / socket)	

Standards and regulations

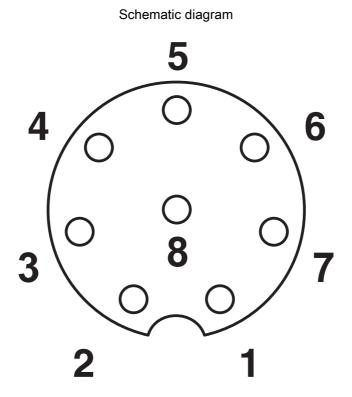
M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104



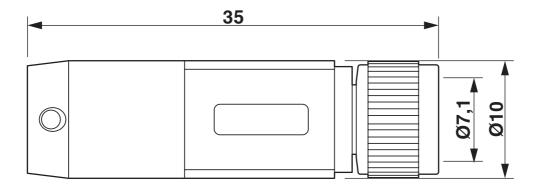
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Drawings



Connector pin assignment of M8 socket, 8-pos., view of socket side

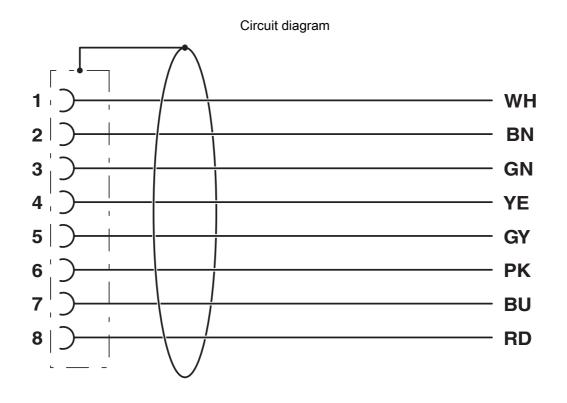
Dimensional drawing



Socket M8 x 1, straight



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Approvals

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	UL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	1.5 A	-	-
<u>.</u>	CUL Listed Approval ID: FILE E 221474	4			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	1.5 A	-	-
EAC	EAC-RoHS Approval ID: RU D-DE.HB3	35.B.00387			

cULus Listed



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Classifications

ECLASS

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

ETIM

	ETIM 9.0	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-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%





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Accessories

WP-CTA POM 13,0 BK - Protective hose adapter

1422884 https://www.phoenixcontact.com/us/products/1422884



Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 x 13), corrugated in parallel

WP-PA HF 13,0 BK - Protective hose

3240681

https://www.phoenixcontact.com/us/products/3240681



Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: V0, inner diameter: 10 mm, Total length: 50 m



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WP-PA HF-HB 13,0 BK - Protective hose

3240839

https://www.phoenixcontact.com/us/products/3240839



Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: HB, inner diameter: 10 mm, Total length: 50 m

PROT-M 8 MS-PA-CHAIN - Screw plug

1430860 https://www.phoenixcontact.com/us/products/1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets



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TSD 02 SAC - Torque screwdriver

1208487

https://www.phoenixcontact.com/us/products/1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

SAC BIT M8-D10 - Tool

1208461 https://www.phoenixcontact.com/us/products/1208461



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive



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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 $\rm mm$

CUTFOX-S VDE - Diagonal cutter

1212207 https://www.phoenixcontact.com/us/products/1212207



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested





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WIREFOX SAC-1 - Stripping tool

1212757

https://www.phoenixcontact.com/us/products/1212757



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 3.2 to 4.4 mm, any stripping length

WIREFOX SAC - Stripping tool

1212623 https://www.phoenixcontact.com/us/products/1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \emptyset of 4.4 to 7 mm, any stripping length



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WIREFOX 10 - Stripping tool

1212150

https://www.phoenixcontact.com/us/products/1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

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