

1405487

https://www.phoenixcontact.com/us/products/1405487

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Sensor/actuator cable, 4-position halogen-free, free cable end, on Socket angled M8, coding: A, cable length: 20 m

Commercial data

Item number	1405487
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF01
Product key	BF1BCA
GTIN	4046356746854
Weight per piece (including packing)	432.66 g
Weight per piece (excluding packing)	432.66 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Product properties

Product type	Sensor/actuator cable	
Number of positions	4	
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	
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

≤ 5 mΩ
≥ 100 MΩ
48 V AC
60 V DC
4 A

Signaling

Status display	No
Status display present	No

Connector

Connection 1

Туре	free cable end
Connection 2	
Туре	Socket angled M8
Number of positions	4
Coding type	A
Number of positions	4

Cable/line



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Cable length	20 m		
PUR halogen-free black [PUR]			
Dimensional drawing			
Cable weight	23 kg/km		
UL AWM Style	20549 / 10493 (80°C/300 V)		
Number of positions	4		
Shielded	no		
Cable type	PUR halogen-free black [PUR]		
Conductor structure signal line	32x 0.10 mm		
AWG signal line	24		
Conductor cross section	4x 0.25 mm² (Signal line)		
Wire diameter incl. insulation	1.17 mm ±0.02 mm (Signal line)		
External cable diameter	3.95 mm ±0.15 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, blue, black		
Thickness, insulation	≥ 0.21 mm (Core insulation)		
	approx. 0.5 mm (Outer cable sheath)		
Overall twist	4 wires, twisted		
Max. conductor resistance	max. 78 Ω/km (at 20 °C)		
Insulation resistance	≥ 100 GΩ*km (at 20 °C)		
Nominal voltage, cable	≤ 300 V		
Test voltage	≥ 3000 V		
Smallest bending radius, fixed installation	20 mm		
Smallest bending radius, movable installation	40 mm		
Max. bending cycles	10000000		
Halogen-free	in accordance with DIN VDE 0472 part 815		
Flame resistance	in accordance with UL 758/1581 FT2		
	DIN EN 60332-2-2 (20 s)		
Resistance to oil	in accordance with DIN EN 60811-2-1		
Other resistance	Highly resistant to acids, alkaline solutions and solvents		
	hydrolysis and microbe resistant		
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A		
	Flexible cable conduit capable		



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Special properties	Silicone-free
	Free of substances which would hinder coating with paint or varnish
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 90 °C (Plug / socket)
	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

Standards and regulations

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

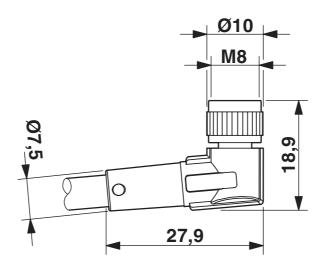


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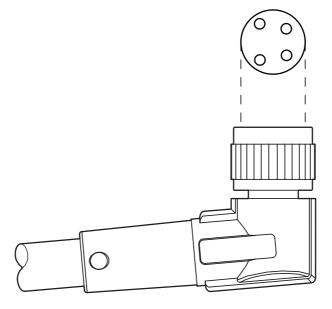
Drawings

Dimensional drawing



Socket M8 x 1, angled

Schematic diagram



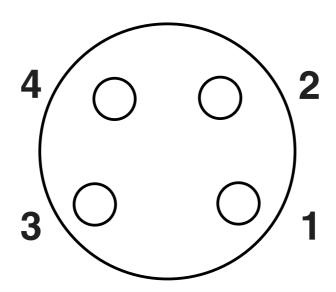
Layout of connector pin assignments



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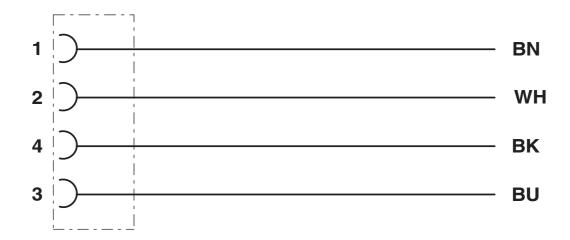
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Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1405487

<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	4 A	-	-

• <u>®</u>	cUL Listed Approval ID: FILE E 22147	4			
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 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	
	LTIIVI 6.0	LC001833	
UNSPSC			
	UNSPSC 21.0	26121600	



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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Accessories

PABA WH/23 - Insert label

1013779

https://www.phoenixcontact.com/us/products/1013779



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

PABA YE/23 - Insert label

1013782

https://www.phoenixcontact.com/us/products/1013782



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 1.5 \dots 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20



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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 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 \emptyset 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 mm^2 , self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm^2 stranded/1.5 mm^2 solid, replaceable stripping blade

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

1422884

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



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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

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



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

1430860

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 $\ensuremath{\mathsf{M8}}$ sealing cap made of plastic with fixing band for sensor cables, for $\ensuremath{\mathsf{M8}}$ sockets



TSD 02 SAC - Torque screwdriver

1208487

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



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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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