

1403720

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Sensor/actuator cable, 4-pos., halogen-free PUR, RAL 7021 (black gray), free cable end to straight M8 socket, cable length: 2.25 m

Commercial data

Item number	1403720
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	AF1BJA
GTIN	4046356664905
Weight per piece (including packing)	86.4 g
Weight per piece (excluding packing)	86.4 g
Customs tariff number	85444290
Country of origin	US



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Technical data

Notes

Irane	restriction

CE note	The products are offered exclusively for export outside the EU
	and the European Economic Area.

Product properties

Product type	Sensor/actuator cable
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	A
Insulation characteristics	
Overvoltage category	II

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Material specifications

Degree of pollution

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	PUR

Electrical properties

Insulation resistance	≥ 100 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

Connector

Connection 1

Туре	free cable end
Connection 2	
Туре	Socket straight M8



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Number of positions	4
Coding type	A

Cable/line

Cable length	2.25 m
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PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	31 kg/km
UL AWM Style	20549
Number of positions	4
Shielded	yes
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	4.70 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. 0.50 mm (Outer cable sheath)
Overall twist	4 wires, twisted
Optical shield covering	80 %
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	24 mm
Smallest bending radius, movable installation	48 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 48 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.



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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)
Special properties	Flexible cable conduit capable
	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) (male connector/female connector)	-25 °C 90 °C (Plug / socket)

Standards and regulations

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

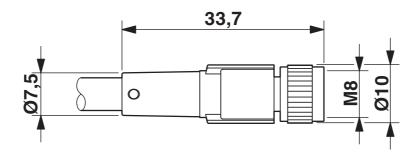


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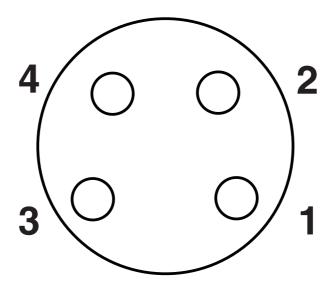
Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



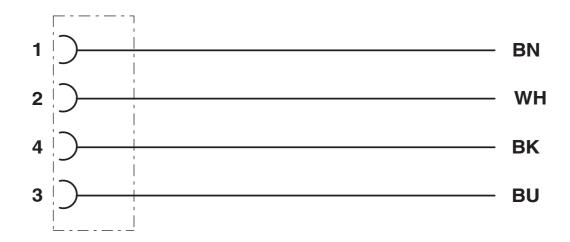
Pin assignment M8 socket, 4-pos., view female side



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Circuit diagram



Contact assignment of M8 socket



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1403720

UL Listed Approval ID: FILE E 22	1474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 A	-	-

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



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Classifications

ETIM 9.0

ECLASS

	ECLASS-13.0	27060311
	ECLASS-15.0	27060311
ETIM		

EC001855



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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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