

1422326

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Sensor/actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, coding: A, on Socket straight M8, cable length: 4.9 m

Commercial data

Item number	1422326
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	AF1BGA
GTIN	4055626299600
Weight per piece (including packing)	170.6 g
Weight per piece (excluding packing)	170.6 g
Customs tariff number	85444290
Country of origin	PL



1422326

https://www.phoenixcontact.com/us/products/1422326

Technical data

Product properties

Product type	Sensor/actuator cable	
Number of positions	6	
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	CuZn
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
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Signaling

Status display	no
Status display present	no

Connector

Connection 1

Туре	Plug straight M8
Number of positions	6
Coding type	A

Connection 2

Туре	Socket straight M8
Number of positions	6



1422326

https://www.phoenixcontact.com/us/products/1422326

Cable/line

Cable length	4.9 m
UR halogen-free black [PUR]	
Dimensional drawing	
Cable weight	34 kg/km
Number of positions	6
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	6x 0.25 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	5 mm
	5.00 mm ±0.15 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	brown, white, blue, black, gray, pink
Thickness, insulation	≥ 0.21 mm (Core insulation)
Thickness, outer sheath	approx. 0.70 mm
Overall twist	Six cores around the filler to the core
Max. conductor resistance	78 Ω/km (at 20 °C)
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	25 mm
Smallest bending radius, movable installation	50 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 50 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.



1422326

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Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with DIN UL-Style 20549
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)
	-5 °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)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C 80 °C (Cable, flexible installation)

Standards and regulations

M8

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

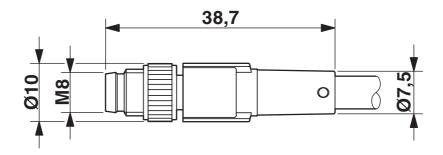


1422326

https://www.phoenixcontact.com/us/products/1422326

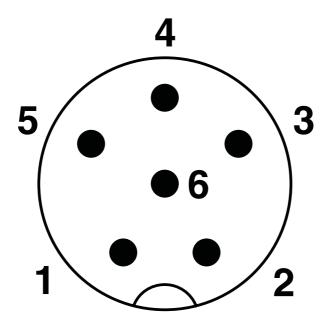
Drawings

Dimensional drawing



M8 x 1 male plug, straight version

Schematic diagram



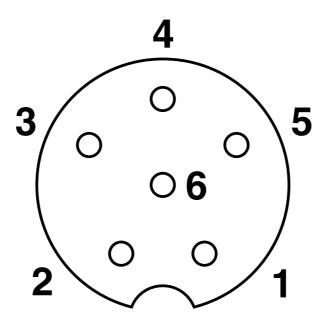
Pin assignment M8 plug, 6-pos., view male side



1422326

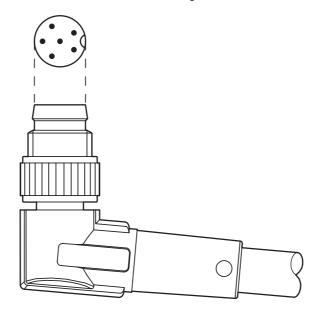
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Schematic diagram



Pin assignment M8 socket, 6-pos.

Schematic diagram



Layout of connector pin assignments



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Circuit diagram BN WH BU BK GY FK

Contact assignment of the M8 plug



1422326

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1422326

UL Listed Approval ID: FII	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	125 V	4 A	-	-

cUL Listed Approval ID: FILE E 221	cUL Listed Approval ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	125 V	4 A	-	-



1422326

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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27060311		
	ECLASS-15.0	27060311		
ETIM				
	ETIM 9.0	EC001855		
UNSPSC				

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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