

1669877

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 5 m

Your advantages

• Easy and safe: 100 % electrically tested plug-in components

Commercial data

Item number	1669877
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CDA
Catalog page	Page 201 (C-2-2019)
GTIN	4017918134778
Weight per piece (including packing)	172 g
Weight per piece (excluding packing)	159 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	5	
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

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)
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Connector

Connection 1



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Type Socket angled M12 Number of positions 5 Coding type A Dile/line Cable length 5 m UR halogen-free black [PUR] Dimensional drawing Cable weight 33 kg/km UL AWM Style 20549 Number of positions 5 Shidided no PUR halogen-free black [PUR] Cable type PUR halogen-free black [PUR] Cable weight 33 kg/km UL AWM Style 20549 Number of positions 5 Shidided no PUR halogen-free black [PUR] Conductor structure signal line 42x 0.10 mm AWG signal line 22 Conductor cross section 5x 0.34 mm² (Signal line) External cable diameter 1nd. insulation 1.27 mm 0.05 mm (Signal line) External cable diameter 4.55 mm ±0.15 mm Outer sheath, material PUR External sheeth, color black-gray RAL 7021 Conductor material PUR Material wire insulation PP Single wire, color brown, white, blue, black, green-yellow approx. 0.50 mm Max. conductor resistance max. 58 0/km (at 20 °C) Insulation resistance 2 16 GG/km (at 20 °C) Insulation resistance 2 16 GG/km (at 20 °C) Insulation resistance 10 max. 58 0/km (at 20 °C) Insulation resistance 2 16 GG/km (at 20 °C) Insulation resistance 10 mx 5x 0.000 V Smallest bending radius, fixed installation 23 mm Smallest bending radius, fixed installation 32 mm Smallest bending radius, movable installation 46 mm Dynamic load capacity (bending) Max. bending cycles: 10000000, Bending radius: 46 mm. Bending radius: 10 x D. Traversing path: 10 m. Traversing path:	Туре	free cable end	
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	Bending radius: 10 x D, Traversing path: 10 m		
	Dynamic load capacity (torsion)		



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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
	Resistant to salt water
	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
	flexible
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
	IP68
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)

Standards and regulations

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

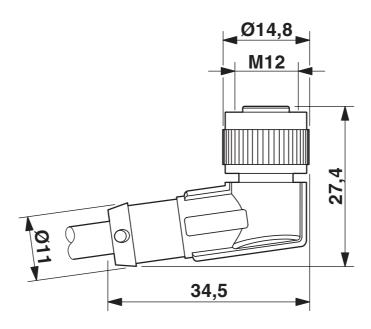


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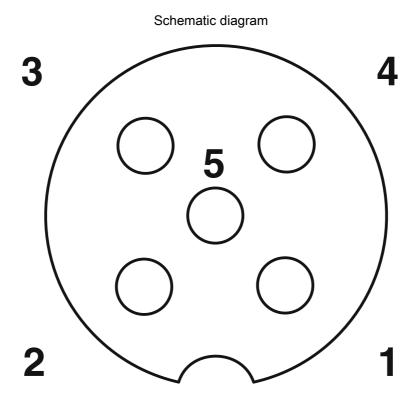
https://www.phoenixcontact.com/us/products/1669877

Drawings

Dimensional drawing



M12 x 1 socket, angled



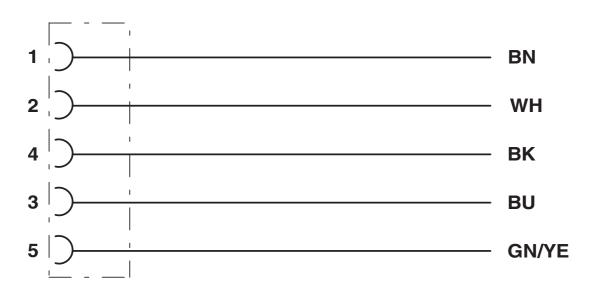
Pin assignment M12 socket, 5-pos., A-coded, socket side view



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Circuit diagram



Contact assignment of the M12 sockets



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1669877

<u> </u>	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	-	-

• <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
		125 V	4 A	-	-

EHC	EAC-RoHS
LIIL	Approval ID: RU D-DE.HB35.B.00387



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Classifications

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		A.7.7

	ECLASS-13.0	27060311	
ETIM			
	ETIM 9.0	EC001855	
UNSPSC			
	UNSPSC 21.0	26121600	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Cillia Noi io	
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%
EF3.0 Climate Change	
CO2e kg	3.222 kg CO2e

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