

1500499

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on free cable end, cable length: 1 m

Commercial data

Item number	1500499
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	BF1CCA
GTIN	4017918595272
Weight per piece (including packing)	35.6 g
Weight per piece (excluding packing)	35 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	
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	250 V AC
	250 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.4 Nm

Connector

Connection 1

Туре	Plug straight M12
Number of positions	4



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Coding type	A		
Connection 2			
Туре	free cable end		
Cable/line			
Cable length	1 m		
PUR halogen-free black [PUR]			
Dimensional drawing			
Cable weight	30 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	42x 0.10 mm		
AWG signal line	22		
Conductor cross section	4x 0.34 mm² (Signal line)		
Wire diameter incl. insulation	1.27 mm ±0.02 mm		
External cable diameter	4.20 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		
Thickness, outer sheath	approx. 0.50 mm		
Overall twist	4 wires, twisted		
Max. conductor resistance	≤ 58 Ω/km		
Insulation resistance	≥ 1 GΩ*km		
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	21 mm		
Smallest bending radius, movable installation	42 mm		
Max. bending cycles	10000000		
Halogen-free	in accordance with DIN VDE 0472 part 815		



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	in accordance with DIN EN 50267-2-1	
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)	
	Low adhesion	
	abrasion-resistant	
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)
	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

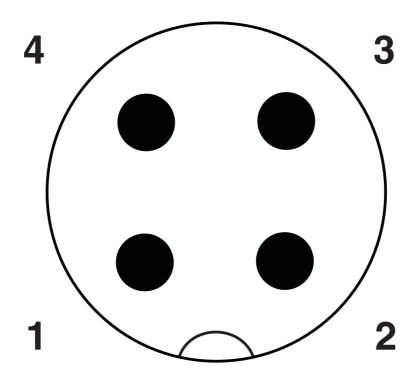


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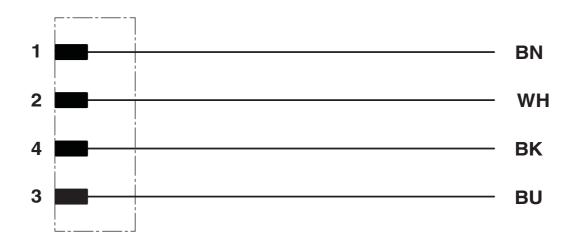
Drawings





Pin assignment M12 plug, 4-pos., A-coded, view plug side

Circuit diagram

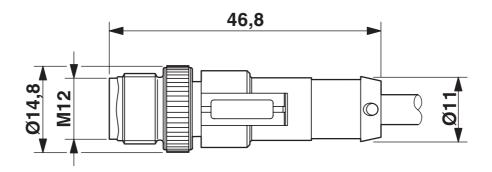




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Dimensional drawing



Plug, M12 x 1, straight, shielded



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1500499

<u> </u>	UL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 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
		300 V	4 A	-	-

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

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27060311				
ECLASS-12.0	27060311				
ECLASS-13.0	27060311				
ETIM					
ETIM 8.0	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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