

1570157

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M12, coding: A, on free cable end, cable length: 20 m

Commercial data

Item number	1570157		
Packing unit	1 pc		
Minimum order quantity	1 pc		
Note	Made to order (non-returnable)		
Sales key	BF03		
Product key	BF1CMA		
GTIN	4046356338509		
Weight per piece (including packing)	1,076 g		
Weight per piece (excluding packing)	1,076 g		
Customs tariff number	85444290		
Country of origin	PL		



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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	8
No. of cable outlets	1
Shielded	yes
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	2 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 M12
Number of positions	8
Coding type	A

Connection 2	
Туре	free cable end



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Cable/line

Cable length	20 m
PUR halogen-free black [PUR]	
Dimensional drawing	
Cable weight	53 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	8
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	8x 0.25 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	5.90 mm ±0.2 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, green, yellow, gray, pink, blue, red
Thickness, insulation	approx. 0.20 mm
Thickness, outer sheath	approx. 0.50 mm
Overall twist	8 wires around filler to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 78 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 V AC (Spark test)
Test voltage Core/Shield	≥ 2000.00 V AC (for 60 s)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	30 mm
Smallest bending radius, movable installation	59 mm
Max. bending cycles	2000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m



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Traversing rate	3 m/s
Acceleration	10 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815
	according to IEC 60754-1
Flame resistance	in acc. with UL FT-2
	according to UL 758/1581 (horizontal)
	in accordance with UL 758/1581 FT2
	According to DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with IEC 60811-404
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
	low-abrasion
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable
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)
	-25 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

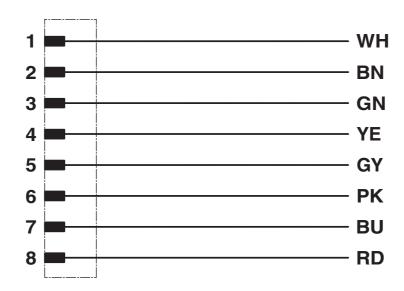


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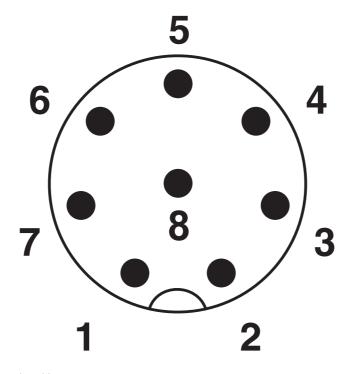
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Drawings

Circuit diagram



Schematic diagram



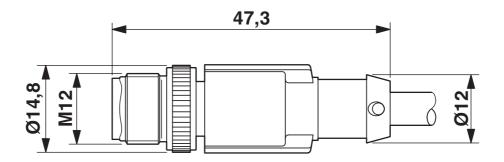
Pin assignment M12 plug, 8-pos., view plug side



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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/1570157

<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	2 A	-	-

• <u>®</u>	CUL Listed Approval ID: FILE E 221474					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		30 V	2 A	-	-	

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Classifications

ECLASS

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