

1529179

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 10 m

Commercial data

Item number	1529179
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	BF1CFA
GTIN	4017918989354
Weight per piece (including packing)	463.8 g
Weight per piece (excluding packing)	447 g
Customs tariff number	85444290
Country of origin	PL



1529179

https://www.phoenixcontact.com/us/products/1529179

Technical data

Product properties

Product type	Sensor/actuator cable		
Number of positions	8		
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	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	2 A
Max. conductor resistance	78 Ω/km

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



1529179

https://www.phoenixcontact.com/us/products/1529179

Coding type	A
Connection 2	
Туре	Socket straight M12
Number of positions	8
Coding type	A
Cable/line	
Cable length	10 m
PUR halogen-free black [PUR]	
Dimensional drawing	

Cable weight	46 kg/km	
_ AWM Style	20549 / 10493 (80°C/300 V)	
mber of positions	8	
nielded		
	no	
able type	PUR halogen-free black [PUR]	
onductor structure signal line	32x 0.10 mm	
VG signal line	24	
onductor cross section	8x 0.25 mm² (Signal line)	
ire diameter incl. insulation	1.17 mm ±0.02 mm	
tternal cable diameter	5.90 mm ±0.15 mm	
tter sheath, material	PUR	
ternal sheath, color	black-gray RAL 7021	
nductor material	Bare Cu litz wires	
terial, filler	PE	
terial wire insulation	PP	
gle wire, color	white, brown, green, yellow, gray, pink, blue, red	
ckness, insulation	≥ 0.21 mm	
ckness, outer sheath	approx. 0.80 mm	
erall twist	8 wires around filler to the core	
ax. conductor resistance	≤ 78 Ω/km	
ulation resistance	≥ 1 GΩ*km	
ave impedance	100 Ω +15 % (with 1 MHz)	
ble capacity	≤ 70 pF/m	
minal voltage, cable	≤ 300 V	
st voltage	≥ 3000 V	
nimum bending radius, fixed installation	8 x D	



1529179

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Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	48 mm
Smallest bending radius, movable installation	59 mm
Max. bending cycles	4000000
Bending radius	59 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2
	According to 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)

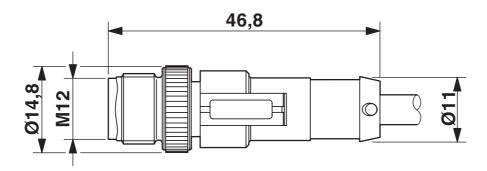


1529179

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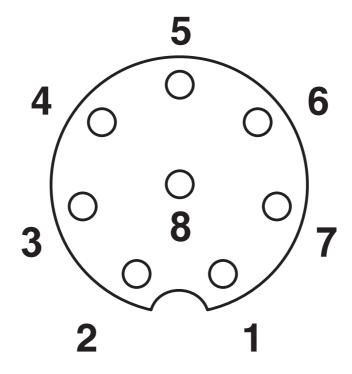
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



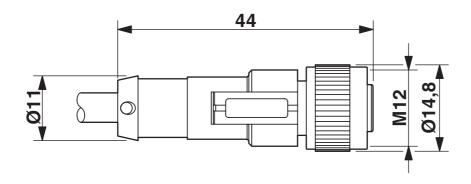
Pin assignment M12 socket, 8-pos., A-coded, view female side



1529179

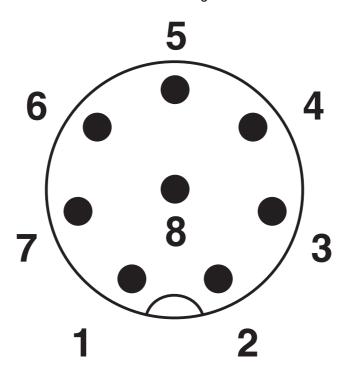
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Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



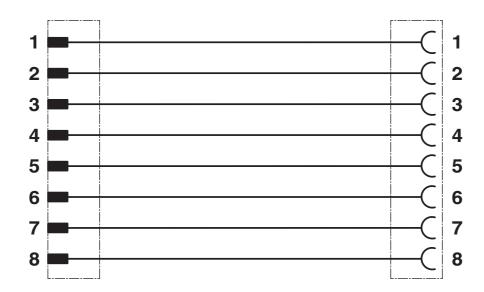
Pin assignment M12 plug, 8-pos., view plug side



1529179

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Circuit diagram





1529179

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1529179

<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	-	-

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

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

cULus Listed



1529179

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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



1529179

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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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