

1522778

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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: 1.5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1522778
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CMA
Catalog page	Page 211 (C-2-2019)
GTIN	4017918957575
Weight per piece (including packing)	96.3 g
Weight per piece (excluding packing)	95 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	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

Maci	hanica	al 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 (M12 connector)
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Connector

Connection 1

Туре	Plug straight M12



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A
free cable end

Ca

Cable length	1.5 m
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PUR halogen-free black [PUR]

Dimensional drawing



able weight	53 kg/km
L AWM Style	20549 / 10493 (80°C/300 V)
umber of positions	8
nielded	yes
able type	PUR halogen-free black [PUR]
onductor structure signal line	32x 0.10 mm
NG signal line	24
onductor cross section	8x 0.25 mm² (Signal line)
ire diameter incl. insulation	1.17 mm ±0.02 mm
xternal cable diameter	5.90 mm ±0.2 mm
uter sheath, material	PUR
xternal sheath, color	black-gray RAL 7021
onductor material	Bare Cu litz wires
aterial wire insulation	PP
ngle wire, color	brown, white, green, yellow, gray, pink, blue, red
nickness, insulation	approx. 0.20 mm
nickness, outer sheath	approx. 0.50 mm
verall twist	8 wires around filler to the core
ptical shield covering	85 %
ax. conductor resistance	≤ 78 Ω/km (at 20 °C)
sulation resistance	≥ 1 GΩ*km (at 20 °C)
ominal voltage, cable	≤ 300 V AC
est voltage	≥ 3000 V AC (Spark test)
est voltage Core/Shield	≥ 2000.00 V AC (for 60 s)
inimum bending radius, fixed installation	5 x D
inimum bending radius, flexible installation	10 x D
mallest bending radius, fixed installation	30 mm



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Smallest bending radius, movable installation	59 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥1000000, Torsional frequency: 35 cycles/min.
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)

Standards and regulations

M12

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

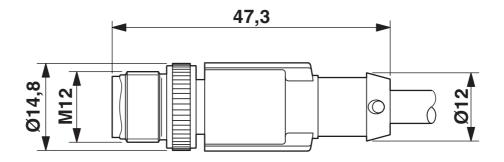


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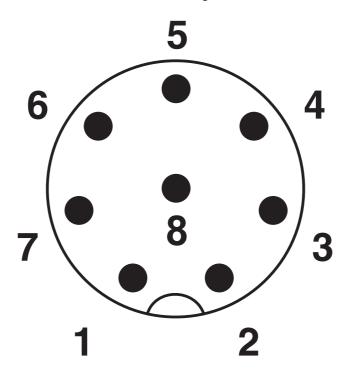
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram

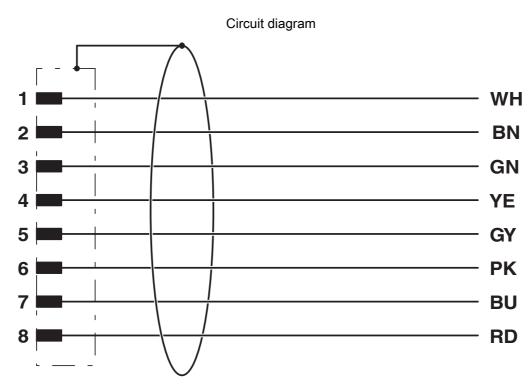


Pin assignment M12 plug, 8-pos., view plug side



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Contact assignment of the M12 plug



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Approvals

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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		74			
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	2 A	-	-

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



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Classifications

	ECLASS-13.0	27060311	
ΕΊ	⁻IM		
	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	
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	1.952 kg CO2e

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