

1526981

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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: 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	1526981
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	AF1CMA
Product key	AF1CMA
Catalog page	Page 211 (C-2-2019)
GTIN	4017918958305
Weight per piece (including packing)	294.71 g
Weight per piece (excluding packing)	287 g
Customs tariff number	85444290
Country of origin	PL



1526981

https://www.phoenixcontact.com/au/products/1526981

## 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	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

### Electrical properties

Insulation resistance	≥ 10 MΩ
Nominal voltage U <sub>N</sub>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	2 A

### Mechanical properties

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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)

#### Connector

#### Connection 1

T	Discolarish M40
Type	Plug straight M12



1526981

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Number of positions	8
Coding type	A
Connection 2	
Туре	free cable end
Cable/line	

5 m

### PUR halogen-free black [PUR]

Dimensional drawing

Cable length



able weight	53 kg/km
L AWM Style	20549 / 10493 (80°C/300 V)
umber of positions	8
ielded	yes
able type	PUR halogen-free black [PUR]
onductor structure signal line	32x 0.10 mm
VG signal line	24
nductor cross section	8x 0.25 mm² (Signal line)
re diameter incl. insulation	1.17 mm ±0.02 mm
ternal cable diameter	5.90 mm ±0.2 mm
uter sheath, material	PUR
cternal 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
ickness, insulation	approx. 0.20 mm
ickness, outer sheath	approx. 0.50 mm
rerall twist	8 wires around filler to the core
tical 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
st voltage	≥ 3000 V AC (Spark test)
st voltage Core/Shield	≥ 2000.00 V AC (for 60 s)
nimum bending radius, fixed installation	5 x D
nimum bending radius, flexible installation	10 x D
nallest bending radius, fixed installation	30 mm



1526981

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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) (male connector/female connector)	-25 °C 90 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-25 °C 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C 80 °C (Cable, flexible installation)

## Standards and regulations

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

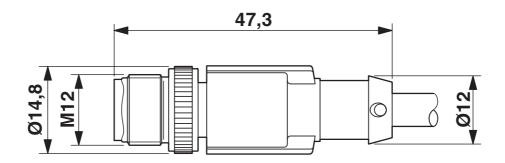


1526981

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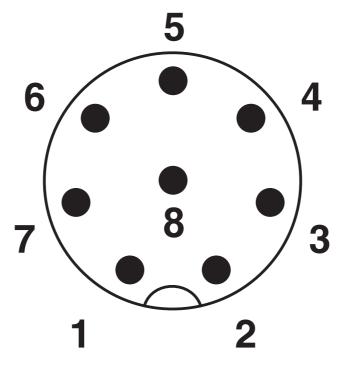
# **Drawings**

### Dimensional drawing



Plug, M12 x 1, straight, shielded

### Schematic diagram

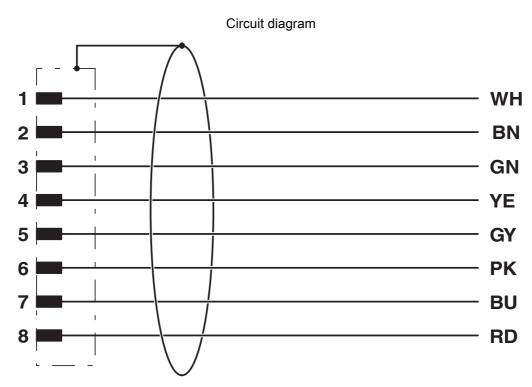


Pin assignment M12 plug, 8-pos., view plug side



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Contact assignment of the M12 plugs



1526981

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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1526981

<u> </u>	<b>UL Listed</b> Approval ID: FILE E 221474				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	2 A	-	-

•	<b>cUL Listed</b> Approval ID: FILE E 22147	74			
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	2 A	-	-

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



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# Classifications

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	ECLASS-13.0	27060311				
ΕT	ETIM					
	ETIM 9.0	EC001855				
٩U	UNSPSC					
	UNSPSC 21.0	26121600				



1526981

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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	5.232 kg CO2e

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