

#### 1522846

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug angled M12, coding: A, on free cable end, cable length: 10 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	1522846	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales key	AF1CMA	
Product key	AF1CMA	
Catalog page	Page 211 (C-2-2019)	
GTIN	4017918957636	
Weight per piece (including packing)	546.8 g	
Weight per piece (excluding packing)	534 g	
Customs tariff number	85444290	
Country of origin	PL	



https://www.phoenixcontact.com/au/products/1522846

## 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 TPU GF	
Contact carrier material		
Material for screw connection	Zinc die-cast, nickel-plated	

#### **Electrical properties**

Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	2 A

#### Mechanical properties

Mechanical data Insertion/withdrawal cycles	≥ 100		
Insertion/withdrawar cycles	2 100		
Signaling			
Status display	no		
Status display present	no		
Connection data			
Connection data			
Connection data Conductor connection			

## Connector

Connection 1	
Туре	Plug angled M12



#### 1522846

https://www.phoenixcontact.com/au/products/1522846

Coding type	A		
onnection 2			
Туре	free cable end		
le/line			
Cable length	10 m		
JR 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]       32x 0.10 mm		
Conductor structure signal line			
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)		
0			
Minimum bending radius, fixed installation	5 x D		
	5 x D 10 x D		



#### 1522846

https://www.phoenixcontact.com/au/products/1522846

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)

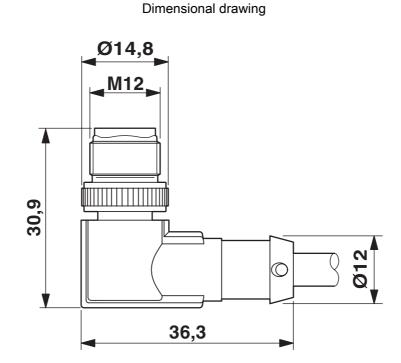
### Standards and regulations

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



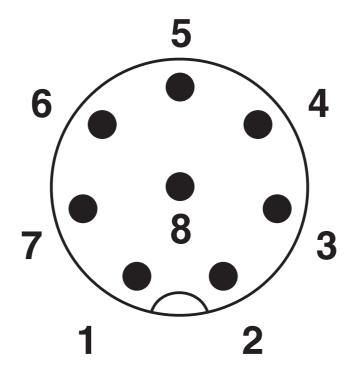
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## Drawings



M12 x 1 male plug, angled, shielded

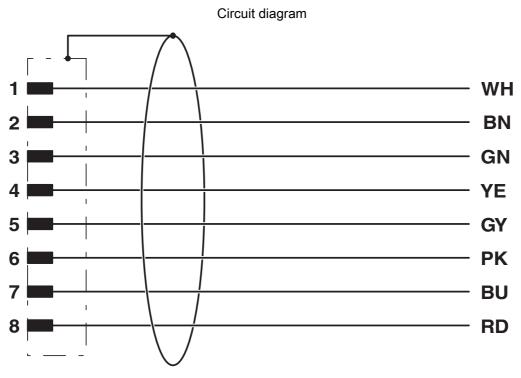
Schematic diagram



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



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Contact assignment of the M12 plug



1522846

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## Approvals

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	<b>UL Listed</b> Approval ID: FILE E 221474	i -			
		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	4			
		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	-	-





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## Classifications

#### ECLASS

	ECLASS-13.0	27060311				
E	ETIM					
	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	10.249 kg CO2e

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PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au