

1403567

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Sensor/actuator cable, 5-pos., halogen-free PUR, RAL 7021 (black gray), shielded, straight M12 male plug (A-coded) to straight M12 female plug (A-coded), cable length: 0.6 m

### Commercial data

Item number	1403567
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1CKA
GTIN	4046356659277
Weight per piece (including packing)	53.7 g
Weight per piece (excluding packing)	53.7 g
Country of origin	PL



1403567

https://www.phoenixcontact.com/us/products/1403567

# Technical data

### Product properties

Product type	Sensor/actuator cable	
Number of positions	5	
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
Seal material	NBR
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	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	4 A

### Mechanical properties

Mec	hanical	data

# Signaling

Status display	no
Status display present	no

#### Connector

#### Connection 1

Туре	Plug straight M12
Number of positions	5
Coding type	A

Connection 2	
Туре	Socket straight M12



1403567

https://www.phoenixcontact.com/us/products/1403567

Number of positions	5
Coding type	A

#### Cable/line

Cable length	0.6 m

### PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	43 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	5
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	5x 0.34 mm² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	5.25 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, blue, black, gray
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.50 mm
Overall twist	5 wires around filler to the core
Optical shield covering	80 %
Max. conductor resistance	max. 57 Ω/km (at 20 °C)
Insulation resistance	70 GΩ*km (at 20 °C)
Nominal voltage, cable	300 V (at 20 °C)
Test voltage Core/Core	3000 V (at 20 °C)
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	52 mm (up to +60 °C)
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 52 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.



1403567

https://www.phoenixcontact.com/us/products/1403567

Halogen-free	in accordance with DIN VDE 0472 part 815
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	in accordance with DIN EN 50267-2-1
Flame resistance	in accordance with UL 758/1581 FT2
	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
	Resistant to salt water
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
	abrasion-resistant
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	Low adhesion surface
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
mbient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-25 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

### Standards and regulations

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

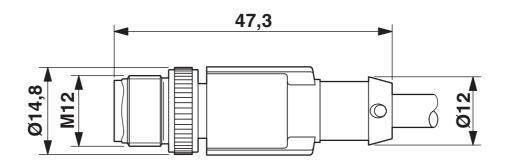


1403567

https://www.phoenixcontact.com/us/products/1403567

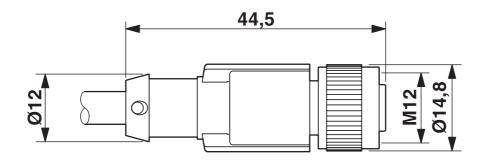
# Drawings

### Dimensional drawing



Plug, M12 x 1, straight, shielded

### Dimensional drawing

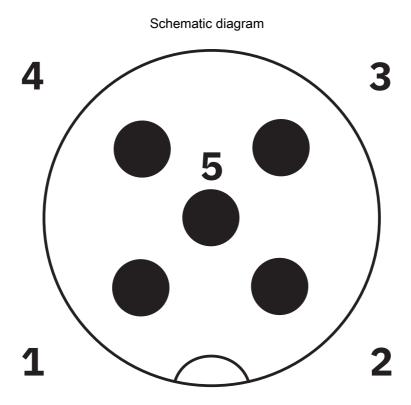


M12 x 1 socket, straight, shielded

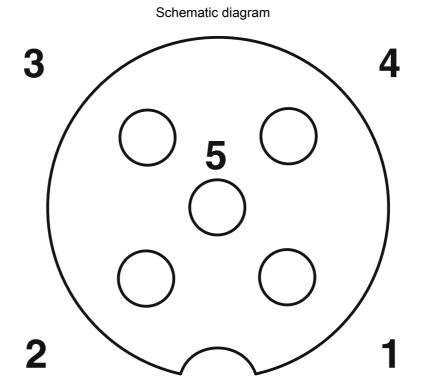


1403567

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Pin assignment M12 male connector, 5-pos., A-coded, male side



Pin assignment M12 socket, 5-pos., A-coded, socket side view



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# Circuit diagram



Contact assignment of the M12 plug and the M12 socket



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# Classifications

	ECLASS-13.0	27060311		
ETIM				
	ETIM 9.0	EC001855		
UNSPSC				
	UNSPSC 21.0	26121600		



1403567

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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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com