

1530948

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, shielded (Advanced Shielding Technology), Socket angled M12, coding: A, on Socket angled M12, coding: A, cable length: 30 m

Commercial data

Item number	1530948	
Packing unit 5 p	5 pc	
Minimum order quantity	25 pc	
Note	Made to order (non-returnable)	
Product key	AF1CJA	
GTIN	4017918990497	
Weight per piece (including packing)	1,599.6 g	
Weight per piece (excluding packing)	1,458.5 g	
Country of origin	PL	



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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	4
No. of cable outlets	1
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 _N	48 V AC
	60 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connector

Connection 1

Туре	Socket angled M12
Number of positions	4
Coding type	A

Connection 2

Туре	Socket angled M12
Number of positions	4



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Coding type	A	
555mg , ypo	• • •	
Cable/line		
Cable length 30 m		
PUR halogen-free black [PUR]		
Dimensional drawing		
Cable weight	36 kg/km	
UL AWM Style	20549 / 10493 (80°C/300 V)	
Number of positions	4	
Shielded	yes	
Cable type	PUR halogen-free black [PUR]	
Conductor structure signal line	42x 0.10 mm	
AWG signal line	22	
Conductor cross section	4x 0.34 mm² (Signal line)	
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)	
External cable diameter	4.95 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	
Thickness, insulation	≥ 0.21 mm	
Thickness, outer sheath	approx. 0.50 mm	
Overall twist	4 wires, twisted	
Optical shield covering	80 %	
Max. conductor resistance	max. 58 Ω/km (at 20 °C)	
Insulation resistance	≥ 100 GΩ*km (at 20 °C)	
Wave impedance	≥ 62 Ω (f = 10 MHz)	
Cable capacity	≤ 80 pF/m (Conductor-Conductor)	
	≤ 135 pF/m (Wire/shield)	
Nominal voltage, cable	≤ 300 V	
Test voltage	≥ 3000 V	
Minimum bending radius, fixed installation	5 x D	
Minimum bending radius, flexible installation	10 x D	
Smallest bending radius, fixed installation	25 mm	
Smallest bending radius, movable installation	50 mm	



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Dynamic load capacity (bending)	Max. bending cycles: 10000000, 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: ≥2000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
	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
Ambient temperature (operation) (male connector/female connector)	-25 °C 90 °C (Plug / socket)

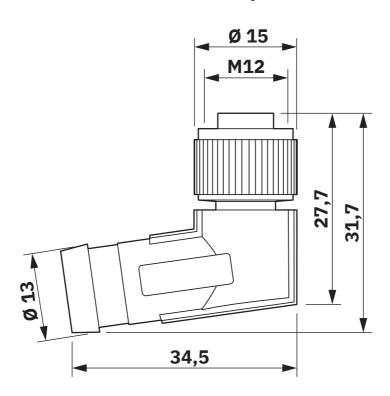


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Drawings

Dimensional drawing



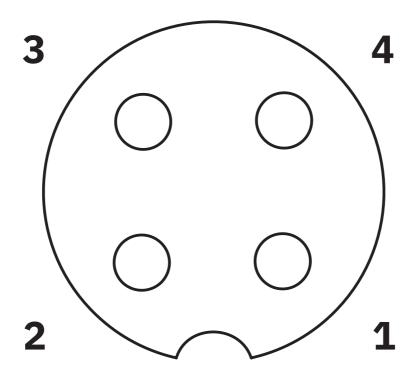
M12 x 1 socket, angled, shielded



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Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1530948

UL Listed Approval ID: FILE E 22	21474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	300 V	4 A	-	-

. cl	UL Listed pproval ID: FILE E 221474	LE E 221474			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		300 V	4 A	-	-



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Classifications

ECLASS

	ECLASS-13.0	27060311			
	ECLASS-15.0	27060311			
ETIM					
CTINI					
	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%			

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