

1570788

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, shielded, Socket straight M12, coding: A, on Socket straight M12, coding: A, cable length: 60 m

Commercial data

Item number	1570788
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1CMA
GTIN	4046356342865
Weight per piece (including packing)	3,206.1 g
Weight per piece (excluding packing)	3,206.1 g
Country of origin	PL



1570788

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Technical data

Product properties

Product type	Sensor/actuator cable	
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
Seal material	NBR
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

Mec	hanical	data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connector

Connection 1

Туре	Socket straight M12
Number of positions	8
Coding type	A

Connection 2	
Туре	Socket straight M12



1570788

https://www.phoenixcontact.com/us/products/1570788

Number of positions	8
Coding type	A

Cable/line

Cable length	60 m

PUR 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]
Conductor structure signal line	32x 0.10 mm
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)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	30 mm
Smallest bending radius, movable installation	59 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 10 x D,



1570788

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	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

7 amount conditions		
Degree of protection	IP65	
	IP67	
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)	
	-25 °C 80 °C (cable, fixed installation)	
	-5 °C 80 °C (Cable, flexible installation)	

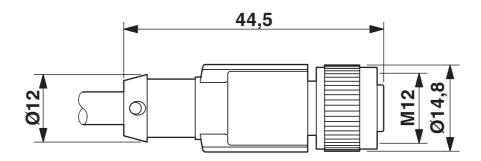


1570788

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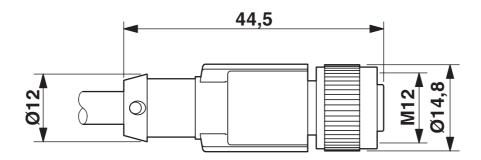
Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Dimensional drawing

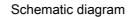


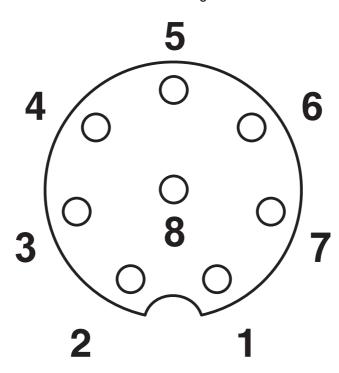
M12 x 1 socket, straight, shielded



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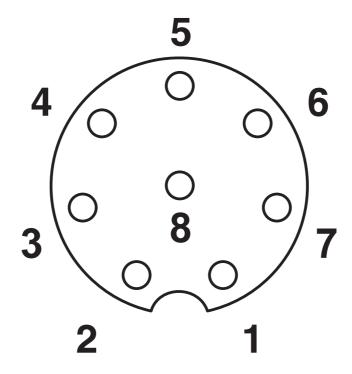
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Pin assignment M12 socket, 8-pos., A-coded, view female side

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side



1570788

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Approvals

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

cUL Listed Approval ID: FILE E 2	221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	2 A	-	-



1570788

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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27060311
	ECLASS-15.0	27060311
СТ	TIM	
EI	TIM	
	ETIM 9.0	EC001855
UN	NSPSC	

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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