

1575123

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Sensor/actuator cable, 4-position, PUR halogen-free, gray RAL 7001, free cable end, on Socket angled M12, coding: A, with 2 LEDs, cable length: 10 m

Commercial data

Item number	1575123
Packing unit	25 pc
Minimum order quantity	25 pc
Product key	AF1CCA
GTIN	4046356433679
Weight per piece (including packing)	321 g
Weight per piece (excluding packing)	321 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

Nominal voltage U _N	24 V
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	2 LEDs
Status display present	yes

Connector

Connection 1

Туре	free cable end
Connection 2	
Туре	Socket angled M12
Number of positions	4
Coding type	Δ

Cable/line

Cable length	10 m



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PUR halogen-free gray [280]

Dimensional drawing Cable weight 30 kg/km UL AWM Style 20549 / 10493 (80°C/300 V) Number of positions 4 Shielded no Cable type PUR halogen-free gray [280] 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 External cable diameter 4.20 mm ±0.15 mm Outer sheath, material PUR External sheath, color gray RAL 7001 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 Max. conductor resistance ≤ 58 Ω/km Insulation resistance ≥ 1 Ω/km Nomical voltage, cable ≤ 300 V	PUR halogen-free gray [280]	
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Single wire, color brown, white, blue, black Thickness, insulation $\geq 0.21 \text{ mm}$ Thickness, outer sheath approx. 0.50 mm Overall twist 4 wires , twisted Max. conductor resistance $\leq 58 \Omega/\text{km}$ Insulation resistance $\geq 1 \text{ G}\Omega^*\text{km}$	Conductor material	Bare Cu litz wires
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Thickness, outer sheath approx. 0.50 mm Overall twist 4 wires , twisted Max. conductor resistance $\leq 58 \Omega/\text{km}$ Insulation resistance $\geq 1 \text{ G}\Omega^*\text{km}$	Single wire, color	brown, white, blue, black
Overall twist 4 wires, twisted Max. conductor resistance $\leq 58 \Omega/\text{km}$ Insulation resistance $\geq 1 G\Omega^*\text{km}$	Thickness, insulation	≥ 0.21 mm
Max. conductor resistance ≤ 58 Ω/km Insulation resistance ≥ 1 GΩ*km	Thickness, outer sheath	approx. 0.50 mm
Insulation resistance ≥ 1 GΩ*km	Overall twist	4 wires, twisted
	Max. conductor resistance	≤ 58 Ω/km
Nominal voltage cable < 300 V	Insulation resistance	≥ 1 GΩ*km
Trominar voltago, cable = 500 v	Nominal voltage, cable	≤ 300 V
Test voltage ≥ 3000 V	Test voltage	≥ 3000 V
Minimum bending radius, fixed installation 5 x D	Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation 10 x D	Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation 21 mm	Smallest bending radius, fixed installation	21 mm
Smallest bending radius, movable installation 42 mm	Smallest bending radius, movable installation	42 mm
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 (bending)	Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10
Halogen-free in accordance with DIN VDE 0472 part 815	Halogen-free	in accordance with DIN VDE 0472 part 815
in accordance with DIN EN 50267-2-1		in accordance with DIN EN 50267-2-1
Flame resistance in accordance with UL 758/1581 FT2	Flame resistance	in accordance with UL 758/1581 FT2
DIN EN 60332-2-2 (20 s)		DIN EN 60332-2-2 (20 s)
Resistance to oil in accordance with DIN EN 60811-2-1	Resistance to oil	in accordance with DIN EN 60811-2-1
Highly resistant to acids, alkaline solutions and solvents		Highly resistant to acids, alkaline solutions and solvents



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Other resistance	hydrolysis and microbe resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
	Low adhesion
	abrasion-resistant
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	flexible
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	IP67
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-20 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (Cable, flexible installation)

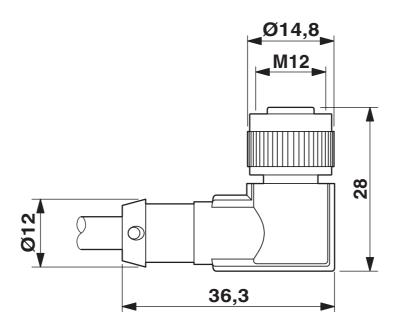


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Drawings

Dimensional drawing



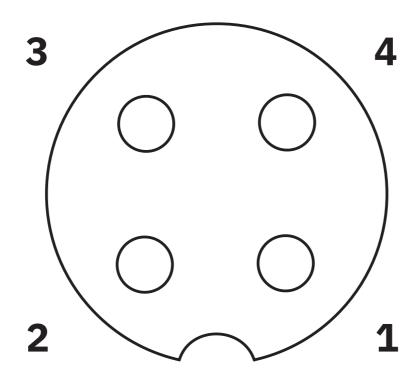
M12 x 1 socket, angled



1575123

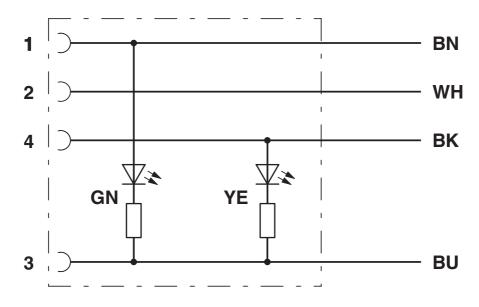
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Schematic diagram



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

Circuit diagram



Contact assignment of the M12 plug and the M12 socket



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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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