

1526363

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, coding: A, on Socket straight M8, coding: A, cable length: 3 m

Commercial data

Item number	1526363
Packing unit	5 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1BCA
GTIN	4017918954505
Weight per piece (including packing)	89 g
Weight per piece (excluding packing)	85 g
Country of origin	PL



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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	3
No. of cable outlets	1
Shielded	no
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
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A
Max. conductor resistance	78 Ω/km

Mechanical properties

Mechanical data

Max. bending cycles	4000000
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Signaling

Status display	no
Status display present	no

Connector

Connection 1

Туре	Plug straight M8
Number of positions	3



1526363

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Type Socket straight M8 Number of positions 3 Coding type A ble/line Cable length 3 m	Coding type	A
Number of positions 3 Coding type A ble/fine 3 m Cable length 3 m PUR halogen-free black [PUR] Purpose the purpos	Connection 2	
Number of positions 3 Coding type A ble/fine 3 m Cable length 3 m PUR halogen-free black (PUR) Purp Halogen-free black (PUR) Dimensional drawing 23 kg/km Cable weight 23 kg/km UL AWM Style 20549 / 10493 (80°C/300 V) Number of positions 4 Shielded no Cable type PUR halogen-free black (PUR) Conductor structure signal line 32 × 0.10 mm AWG signal line 24 Conductor cross section 4x 0.25 mm² (Signal line) Wire diameter incl. insulation 1.17 mm ±0.02 mm (Signal line) External cable diameter 3.95 mm ±0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material wire insulation PP External sheath, color brown, white, blue, black Thickness, insulation P Affective, color brown, white, blue, black Thickness, insulation 20 21	Туре	Socket straight M8
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ShieldednoCable typePUR halogen-free black [PUR]Conductor structure signal line $32 \times 0.10 \text{ mm}$ AWG signal line 24 Conductor cross section $4 \times 0.25 \text{ mm}^2$ (Signal line)Wire diameter incl. insulation $1.17 \text{ mm} \pm 0.02 \text{ mm}$ (Signal line)External cable diameter $3.95 \text{ mm} \pm 0.15 \text{ mm}$ Outer sheath, materialPURExternal sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorbrown, white, blue, blackThickness, insulation $\geq 0.21 \text{ mm}$ (Core insulation)Overall twist 4 wires , twistedMax. conductor resistance $\geq 100 \text{ GΩ}^4 \text{km}$ (at 20 °C)Insulation resistance $\geq 100 \text{ GΩ}^4 \text{km}$ (at 20 °C)Nominal voltage, cable $\leq 300 \text{ V}$ Test voltage $\geq 3000 \text{ V}$ Smallest bending radius, fixed installation 20 mm Smallest bending radius, movable installation 40 mm	UL AWM Style	20549 / 10493 (80°C/300 V)
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Conductor cross section $ \begin{array}{lll} 4x0.25 \text{ mm}^2 \text{ (Signal line)} \\ \\ \text{Wire diameter incl. insulation} & 1.17 \text{ mm} \pm 0.02 \text{ mm} \text{ (Signal line)} \\ \\ \text{External cable diameter} & 3.95 \text{ mm} \pm 0.15 \text{ mm} \\ \\ \text{Outer sheath, material} & \text{PUR} \\ \\ \text{External sheath, color} & \text{black-gray RAL 7021} \\ \\ \text{Conductor material} & \text{Bare Cu litz wires} \\ \\ \text{Material wire insulation} & \text{PP} \\ \\ \text{Single wire, color} & \text{brown, white, blue, black} \\ \\ \text{Thickness, insulation} & \geq 0.21 \text{ mm} \text{ (Core insulation)} \\ \\ \text{approx. 0.50 mm} \text{ (Outer cable sheath)} \\ \\ \text{Overall twist} & 4 \text{ wires, twisted} \\ \\ \text{Max. conductor resistance} & \text{max. 78 } \Omega/\text{km} \text{ (at 20 °C)} \\ \\ \text{Insulation resistance} & \geq 100 G\Omega^n\text{km} \text{ (at 20 °C)} \\ \\ \text{Nominal voltage, cable} & \leq 300 \text{ V} \\ \\ \text{Smallest bending radius, fixed installation} & 20 \text{ mm} \\ \\ \\ \text{Smallest bending radius, movable installation} & 40 \text{ mm} \\ \\ \end{array} $	Conductor structure signal line	32x 0.10 mm
Wire diameter incl. insulation 1.17 mm ±0.02 mm (Signal line) External cable diameter 3.95 mm ±0.15 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 (Core insulation) approx. 0.50 mm (Outer cable sheath) Overall twist 4 wires, twisted Max. conductor resistance max. 78 Ω/km (at 20 °C) Insulation resistance ≥ 100 GΩ*km (at 20 °C) Nominal voltage, cable ≤ 300 V Test voltage ≥ 3000 V Smallest bending radius, fixed installation 20 mm Smallest bending radius, movable installation 40 mm	AWG signal line	24
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Thickness, insulation $ \geq 0.21 \text{ mm (Core insulation)} $ approx. $0.50 \text{ mm (Outer cable sheath)} $ $ \text{Overall twist} \qquad \qquad 4 \text{ wires, twisted} $ $ \text{Max. conductor resistance} \qquad \qquad \text{max. } 78 \Omega/\text{km (at } 20 ^{\circ}\text{C)} $ $ \text{Insulation resistance} \qquad \qquad \geq 100 \text{G}\Omega^*\text{km (at } 20 ^{\circ}\text{C)} $ $ \text{Nominal voltage, cable} \qquad \qquad \leq 300 \text{V} $ $ \text{Test voltage} \qquad \qquad \geq 3000 \text{V} $ $ \text{Smallest bending radius, fixed installation} \qquad \qquad 20 \text{mm} $ $ \text{Smallest bending radius, movable installation} \qquad \qquad 40 \text{mm} $		
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Overall twist 4 wires, twisted Max. conductor resistance $max. 78 \Omega/km (at 20 ^{\circ}C)$ Insulation resistance $\geq 100 G\Omega^*km (at 20 ^{\circ}C)$ Nominal voltage, cable $\leq 300 V$ Test voltage $\geq 3000 V$ Smallest bending radius, fixed installation $\geq 20 mm$ Smallest bending radius, movable installation $\leq 40 mm$		
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Test voltage ≥ 3000 V Smallest bending radius, fixed installation 20 mm Smallest bending radius, movable installation 40 mm		
Smallest bending radius, fixed installation 20 mm Smallest bending radius, movable installation 40 mm		
Smallest bending radius, movable installation 40 mm		



1526363

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	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	
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	
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)	
Special properties	Flexible cable conduit capable	
	Silicone-free	
	Free of substances which would hinder coating with paint or varnish	
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
	IP68
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

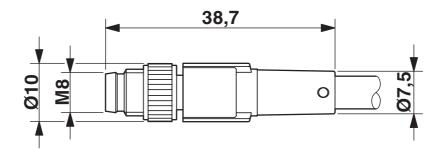


1526363

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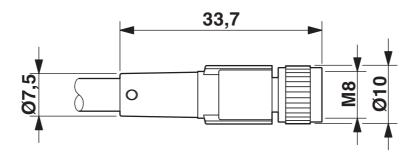
Drawings

Dimensional drawing



M8 x 1 male plug, straight version

Dimensional drawing



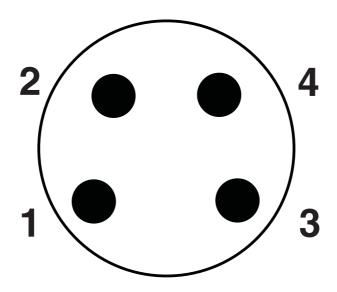
Socket M8 x 1, straight



1526363

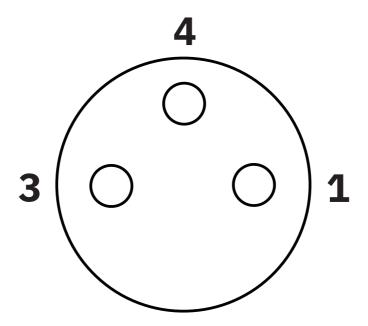
https://www.phoenixcontact.com/us/products/1526363

Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

Schematic diagram



Pin assignment M8 socket, 3-pos., view female side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1526363

UL Li Approv	isted val ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 A	-	-

cUL Listed Approval ID: FILE E 22	1474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	4 A	-	-

	EAC-RoHS Approval ID: RU D-DE.HB35.B.00387
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Classifications

ECLASS

	ECLASS-13.0	27060311			
	ECLASS-15.0	27060311			
	ECLASS-13.0	27000311			
ETIM					
	ETIM 9.0	EC001855			
UNSPSC					

UNSPSC 21.0 26121600



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Environmental product compliance

EU Rol	НS
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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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