

1519286

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Sensor/actuator cable, 4-position halogen-free, shielded, Plug straight M12, coding: A, on free cable end, cable length: 15 m

Commercial data

Item number	1519286
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	BF1CJA
GTIN	4017918937782
Weight per piece (including packing)	599.4 g
Weight per piece (excluding packing)	599.4 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Product properties			
Product type	Sensor/actuator cable		
Number of positions	4		
Shielded	yes		
Insulation characteristics			
Overvoltage category	II		
Degree of pollution	3		
Material specifications			
Flammability rating according to UL 94	НВ		
Electrical properties			
Nominal voltage U _N	48 V AC		
	60 V DC		

Mechanical properties

Nominal current I_N

Mechanical data

Insertion/withdrawal cycles ≥ 100	Insertion/withdrawal cycles	≥ 100	
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4 A

Signaling

Status display	No
Status display present	No

Connector

Connection 1

Туре	Plug straight M12
Number of positions	4
Coding type	A
Number of positions	4

Connection 2

Туре	free cable end

Cable/line

Cable length	15 m
PUR halogen-free black [PUR]	



1519286

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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 42× 0.10 mm AWG signal line 22 Conductor cross section 4x 0.34 mm² (Signal line) Wire diameter incl. insulation 1.27 mm ±0.22 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, insulation ≥ 0.21 mm Thickness, outer sheath approx. 0.5 mm Overall twist 4 wires, tivisted 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) </th <th>Dimensional drawing</th> <th></th>	Dimensional drawing	
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 PP Single wire, color brown, white, blue, black Thickness, outer sheath approx. 0.5 mm Overall twist 4 wires, twisted Optical shield covering 80 Max. conductor resistance ≥ 100 GΩ*km (at 20 °C) Insulation resistance ≥ 100 GΩ*km (at 20 °C) Insulation resistance ≥ 80 pF/m (Conductor-Conductor) Cable capacity ≤ 80 pF/m (Conductor-Conductor) Test voltage	Cable weight	36 kg/km
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. 0.5 mm Overall twist 4 wires, twisted Optical shield covering 80 % Max. conductor resistance max. 58 Q/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 ≥ 3000 V Test voltage ≥ 3000 V <	UL AWM Style	20549 / 10493 (80°C/300 V)
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. 0.5 mm Overall twist 4 wires, twisted Optical shield covering 30 % Max. conductor resistance max. 58 Ω/km (at 20 °C) Insulation resistance ≥ 100 GG/km (at 20 °C) Wave impedance ≥ 62 Ω (f = 10 MHz) Cable capacity ≤ 80 pF/m (Conductor-Conductor) ≤ 135 pF/m (Wire/shield) S 135 pF/m (Wire/shield) Nominal voltage, cable ≤ 3000 V Test voltage ≥ 3000 V Minimum	Number of positions	4
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 2 0.21 mm Thickness, outer sheath approx. 0.5 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 ≤ 3000 V Test voltage ≥ 3000 V Minimum bending radius, fiexible installation 10 x D Max. bending cycles <td< td=""><td>Shielded</td><td>yes</td></td<>	Shielded	yes
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 2 0.21 mm Thickness, outer sheath approx. 0.5 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 ≤ 3000 V Test voltage ≥ 3000 V Minimum bending radius, fiexible installation 10 x D Max. bending cycles <td< td=""><td>Cable type</td><td>PUR halogen-free black [PUR]</td></td<>	Cable type	PUR halogen-free black [PUR]
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. 0.5 mm Overall twist 4 wires, twisted Optical shield covering 80 % Max. conductor 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 ≤ 3000 V Test voltage ≥ 3000 V Minimum bending radius, fixed installation 10 x D Max. bending cycles 10000000 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with UL 758/1581 FT2		
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. 0.5 mm Overall twist 4 wires, twisted Optical shield covering 80 % Max. conductor resistance max. 58 Ω/km (at 20 °C) Insulation resistance ≥ 100 GΩ°tm (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 10 x D Max. bending cycles 10000000 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with U		22
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. 0.5 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 10 x D Max. bending cycles 10000000 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Flame resistance to oil in accordance with DIN EN 60811-2-1 <		4x 0.34 mm² (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. 0.5 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 ≥ 60 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, fixed installation 10 x D Max. bending cycles 10000000 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 in accordance with DIN EN 60811-2-1	Wire diameter incl. insulation	
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. 0.5 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 Max. bending cycles 10000000 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	External cable diameter	4.95 mm ±0.2 mm
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. 0.5 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 Max. bending cycles 10000000 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	Outer sheath, material	PUR
Material wire insulation PP Single wire, color brown, white, blue, black Thickness, insulation ≥ 0.21 mm Thickness, outer sheath approx. 0.5 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, fixed installation 10 x D Max. bending cycles 10000000 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	External sheath, color	black-gray RAL 7021
Single wire, color brown, white, blue, black Thickness, insulation ≥ 0.21 mm Thickness, outer sheath approx. 0.5 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 ≤ 300 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 Max. bending cycles 10000000 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	Conductor material	
Thickness, insulation ≥ 0.21 mm Thickness, outer sheath approx. 0.5 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 Max. bending cycles 10000000 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	Material wire insulation	PP
Thickness, outer sheath approx. 0.5 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 Max. bending cycles 10000000 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 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	Single wire, color	brown, white, blue, black
Overall twist 4 wires, twisted Optical shield covering 80 % Max. conductor resistance $max. 58 \Omega / km$ (at 20 °C) Insulation resistance $\geq 100 \ G\Omega^{\circ} km$ (at 20 °C) Wave impedance $\geq 62 \Omega \ (f = 10 \ MHz)$ Cable capacity $\leq 80 \ pF/m$ (Conductor-Conductor) $\leq 135 \ pF/m$ (Wire/shield) Nominal voltage, cable $\leq 300 \ V$ Test voltage $\geq 3000 \ V$ Minimum bending radius, fixed installation $5 \times D$ Max. bending cycles 10000000 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	Thickness, insulation	≥ 0.21 mm
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 Max. bending cycles 10000000 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	Thickness, outer sheath	approx. 0.5 mm
Max. conductor resistancemax. 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 VTest voltage≥ 3000 VMinimum bending radius, fixed installation5 x DMinimum bending radius, flexible installation10 x DMax. bending cycles10000000Halogen-freein accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1Flame resistancein accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s)Resistance to oilin accordance with DIN EN 60811-2-1	Overall twist	4 wires, twisted
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 Max. bending cycles 10000000 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	Optical shield covering	80 %
Wave impedance≥ 62 Ω (f = 10 MHz)Cable capacity≤ 80 pF/m (Conductor-Conductor)≤ 135 pF/m (Wire/shield)Nominal voltage, cable≤ 300 VTest voltage≥ 3000 VMinimum bending radius, fixed installation5 x DMinimum bending radius, flexible installation10 x DMax. bending cycles10000000Halogen-freein accordance with DIN VDE 0472 part 815in accordance with DIN EN 50267-2-1Flame resistancein accordance with UL 758/1581 FT2DIN EN 60332-2-2 (20 s)Resistance to oilin accordance with DIN EN 60811-2-1	Max. conductor resistance	max. 58 Ω/km (at 20 °C)
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 Max. bending cycles 10000000 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 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	Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Solution ≤ 135 pF/m (Wire/shield) Nominal voltage, cable ≤ 300 V Test voltage ≥ 3000 V Minimum bending radius, fixed installation 5 x D Max. bending radius, flexible installation 10 x D Max. bending cycles 10000000 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	Wave impedance	≥ 62 Ω (f = 10 MHz)
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 Max. bending cycles 10000000 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	Cable capacity	≤ 80 pF/m (Conductor-Conductor)
Test voltage ≥ 3000 V Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Max. bending cycles 10000000 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		≤ 135 pF/m (Wire/shield)
Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Max. bending cycles 10000000 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	Nominal voltage, cable	≤ 300 V
Minimum bending radius, flexible installation 10 x D Max. bending cycles 10000000 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	Test voltage	≥ 3000 V
Max. bending cycles 10000000 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	Minimum bending radius, fixed installation	5 x D
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	Minimum bending radius, flexible installation	10 x D
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	Max. bending cycles	10000000
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	Halogen-free	in accordance with DIN VDE 0472 part 815
DIN EN 60332-2-2 (20 s) Resistance to oil in accordance with DIN EN 60811-2-1		in accordance with DIN EN 50267-2-1
Resistance to oil in accordance with DIN EN 60811-2-1	Flame resistance	in accordance with UL 758/1581 FT2
		DIN EN 60332-2-2 (20 s)
Other resistance Highly resistant to acids, alkaline solutions and solvents	Resistance to oil	in accordance with DIN EN 60811-2-1
	Other resistance	Highly resistant to acids, alkaline solutions and solvents



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	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)	-25 °C 90 °C (Plug / socket)	
	-25 °C 80 °C (cable, fixed installation)	
	-5 °C 80 °C (Cable, flexible installation)	

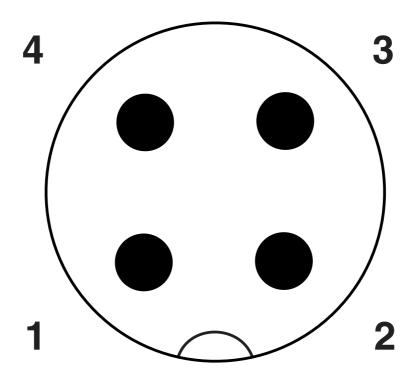


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Drawings





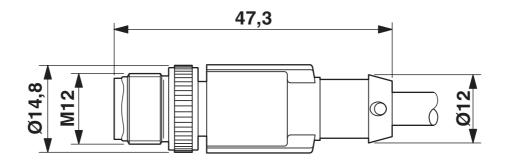
Pin assignment M12 plug, 4-pos., A-coded, view plug side



1519286

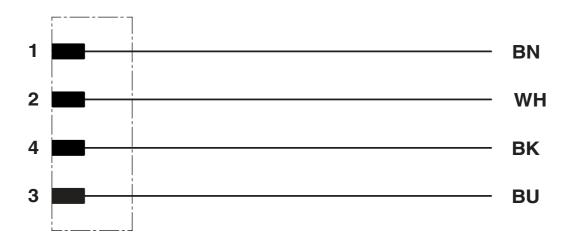
https://www.phoenixcontact.com/us/products/1519286

Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1519286

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EAC

Approval ID: RU C-DE.BL08.B.00286

<u> </u>	UL Listed Approval ID: FILE E 22147	4			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	4 A	-	-

•	cUL Listed Approval ID: FILE E 221474				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	4 A	-	-

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

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27060311				
ECLASS-12.0	27060311				
ECLASS-13.0	27060311				
ETIM					
ETIM 8.0	EC001855				
UNSPSC					

26121600



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e	
	No hazardous substances above threshold values	

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