

1404182

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, Plug angled M8, coding: A, on free cable end, cable length: 1.5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- · Save space with high-pos. connectors

Commercial data

Item number	1404182
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF1BGA
Product key	AF1BGA
Catalog page	Page 207 (C-2-2019)
GTIN	4046356680950
Weight per piece (including packing)	54.9 g
Weight per piece (excluding packing)	53 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A
Insulation characteristics	
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	НВ
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	30 V AC
	30 V DC
Nominal current I _N	1.5 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque 0.2 Nm (M8 connectors)
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Connector

Connection 1

Туре	Plug angled M8
Number of positions	8



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Connection 2 Type	Coding type	A
Cable (Plune Cable length 1.5 m PUR halogen-free black (PUR) Dimensional drawing Cable weight UL AWM Style UL AWM Style 10		A
Cable length Cable length Dimensional drawing Cable weight UL AWM Style UL AWM Style Cable type Conductor structure signal line AWG signal line AWG signal line Conductor cross section 8x 0.14 mm² (Signal line) Wire diameter incl. insulation External cable diameter Outer sheath, material PUR Conductor material Bare Cu litz wires Material, fillor Alfalior Single wire, color Thickness, insulation PP Single wire, color Thickness, insulation Overall twist 8 wires around filler to the core Length of twist, overall twist Max. conductor resistance 139 Qlkm (et 20 °C) Insulation 14 guranter and the core 15 nmm 18 guranter and the core 19 Guranter and 20 °C) Insulation resistance 19 Guranter and 20 °C) Insulation resistance 19 Guranter and 20 °C) Insulation resistance 10 Guranter and 20 °C °C) Insulation resistance 10 Guranter and 20 °C	Connection 2	
Cable length PUR halogen-free black (PUR) Dimensional drawing Cable weight UL AVM Style UL AVM Style Shelded no Cable type PUR halogen-free black (PUR) Conductor structure signal line 18k 0.10 mm AWG signal line Conductor ross section 8k 0.14 mm* (Signal line) Wire diameter incl. insulation External cable diameter Outer sheath, material External cable diameter S.10 mm 20.15 mm Material, filler Material, filler PE Material, wire insulation PP Material wire insulation PP Single wire, color Thickness, insulation PP Single wire, color Thickness, insulation Overall twist 8 wires around filler to the core Length of twist, overall twist 8 wires around filler to the core Insulation PS mm Max. conductor resistance 139 Ω/km (at 20 °C) Insulation PS mm Max. conductor resistance 139 Ω/km (at 20 °C) Insulation PS mm Max. conductor resistance 139 Ω/km (at 20 °C) Insulation PS mm Max. conductor resistance 139 Ω/km (at 20 °C) Insulation PS mm Max. conductor resistance 139 Ω/km (at 20 °C) Insulation PS mallest bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 10 x D	Туре	free cable end
PUR halogen-free black (PUR) Dimensional drawing Cable weight 31.4 kg/km UL AWM Style 20549 Number of positions 8 Shielded no Cable type PUR halogen-free black (PUR) Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor rorses section 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm 40.02 mm (Signal line) External cable diameter 5.10 mm 40.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PPP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation 2.0.1 mm (Signal line) 2.0.2 mm (Signal line) 2.0.3 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max conductor resistance 15 GYmm (at 20 °C) Insulation resistance 15 GYmm (at 20 °C) Nominal voltage, cable 5 x D Minimum bending radius, fixed installation 5 x D Smallest bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Cable/line	
Cable weight 31.4 kg/km UL AVM Style 20549 Number of positions 8 Shielded no Cable type PUR halogen-free black [PUR] Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor resuscation 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm ±0.02 mm (Signal line) External cable diameter 5.10 mm ±0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation \$2.0.2 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 130° km (at 20°C) Nominal voltage, cable \$300 V AC Test voltage \$2000 V AC (Spark test) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Cable length	1.5 m
Cable weight 31.4 kg/km UL AWM Style 20549 Number of positions 8 Shielded no Cable type PUR halogen-free black [PUR] Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor resusection 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm ±0.02 mm (Signal line) External cable diameter 5.10 mm ±0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation PP Material twist 8 wires around filler to the core Length of twist, overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 130°Km (at 20°C) Nominal voltage, cable 5 xD Minimum bending radius, fixed installation 5 xD Smallest bending radius, fixed installation 10 xD Smallest bending radius, fixed installation 25.5 mm	PUR halogen-free black [PUR]	
Cable weight 31.4 kg/km UL AWM Style 20549 Number of positions 8 Shielded no Cable type PUR halogen-free black [PUR] Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor cross section 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm ±0.02 mm (Signal line) External cable diameter 5.10 mm ±0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall tvist 8 wires around filler to the core Length of twist, overall tvist 58 mm Max. conductor resistance 1 39 0/km (at 20 °C) Insulation resistance 1 G		
UL AWM Style 20549 Number of positions 8 Shielded no Cable type PUR halogen-free black [PUR] Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor cross section 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm ±0.02 mm (Signal line) External cable diameter 5.10 mm ±0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 Ω/km (at 20 °C) Insulation resistance 1 GΩ°km (at 20 °C) Nominal voltage, cable ≥ 3000 V AC Test voltage ≥ 3000 V AC (Spark test) </td <td></td> <td></td>		
UL AWM Style 20549 Number of positions 8 Shielded no Cable type PUR halogen-free black [PUR] Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor cross section 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm ±0.02 mm (Signal line) External cable diameter 5.10 mm ±0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 Ω/km (at 20 °C) Insulation resistance 1 GΩ°km (at 20 °C) Nominal voltage, cable ≥ 3000 V AC Test voltage ≥ 3000 V AC (Spark test) </td <td>Cable weight</td> <td>31.4 kg/km</td>	Cable weight	31.4 kg/km
Number of positions 8 Shielded no Cable type PUR halogen-free black [PUR] Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor cross section 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm ±0.02 mm (Signal line) External cable diameter 5.10 mm ±0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 5 mm Max. conductor resistance 139 Ω/km (at 20 °C) Insulation resistance 1 GΩ*km (at 20 °C) Nominal voltage, cable ≤ 3000 V AC Test voltage ≥ 3000 V AC (Spark test)		
Shielded no Cable type PUR halogen-free black [PUR] PUR halogen-free black [PUR] Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor cross section 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm \pm 0.02 mm (Signal line) External cable diameter 5.10 mm \pm 0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation \geq 0.21 mm (Signal line) \geq 0.23 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 Ω /km (at 20 °C) Insulation resistance 1 Ω Ω 0 V AC Test voltage Ω 0 V AC (Spark test) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 25.5 mm		8
Conductor structure signal line 18x 0.10 mm AWG signal line 26 Conductor cross section 8x 0.14 mm² (Signal line) Wire diameter incl. insulation 1 mm ± 0.02 mm (Signal line) External cable diameter 5.10 mm ± 0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 8 wires around filler to the core Insulation resistance 139 Ω /km (at 20 °C) Insulation resistance 1 G Ω *km (at 20 °C) Nominal voltage, cable $\leq 300 \text{ V AC}$ Test voltage $\geq 3000 \text{ V AC}$ Test voltage $\geq 3000 \text{ V AC}$ Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Shielded	no
AWG signal line 26 Conductor cross section $8 \times 0.14 \text{ mm}^2$ (Signal line) Wire diameter incl. insulation $1 \text{ mm} \pm 0.02 \text{ mm}$ (Signal line) External cable diameter $5.10 \text{ mm} \pm 0.15 \text{ mm}$ Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation $\geq 0.21 \text{ mm}$ (Signal line) $\geq 0.38 \text{ mm}$ (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance $139 \Omega/\text{km}$ (at $20 \degree \text{C}$) Insulation resistance $1 \text{ G}\Omega^*\text{km}$ (at $20 \degree \text{C}$) Nominal voltage, cable $\leq 300 \text{ V AC}$ Test voltage $\geq 3000 \text{ V AC}$ (Spark test) Minimum bending radius, fixed installation $5 \times D$ Minimum bending radius, fixed installation 25.5 mm	Cable type	PUR halogen-free black [PUR]
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Conductor structure signal line	18x 0.10 mm
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	AWG signal line	26
External cable diameter 5.10 mm ±0.15 mm Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 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) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Conductor cross section	8x 0.14 mm² (Signal line)
Outer sheath, material PUR External sheath, color black-gray RAL 7021 Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 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) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Wire diameter incl. insulation	1 mm ±0.02 mm (Signal line)
External sheath, colorblack-gray RAL 7021Conductor materialBare Cu litz wiresMaterial, fillerPEMaterial wire insulationPPSingle wire, colorwhite, brown, green, yellow, gray, pink, blue, redThickness, insulation $\geq 0.21 \text{ mm}$ (Signal line) $\geq 0.38 \text{ mm}$ (Outer cable sheath)Overall twist8 wires around filler to the coreLength of twist, overall twist 58 mm Max. conductor resistance $139 \Omega/\text{km}$ (at 20 °C)Insulation resistance $1 \text{ G}\Omega^*\text{km}$ (at 20 °C)Nominal voltage, cable $\leq 300 \text{ V AC}$ Test voltage $\geq 3000 \text{ V AC}$ (Spark test)Minimum bending radius, fixed installation $5 \times D$ Minimum bending radius, flexible installation $10 \times D$ Smallest bending radius, fixed installation 25.5 mm	External cable diameter	5.10 mm ±0.15 mm
Conductor material Bare Cu litz wires Material, filler PE Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 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) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Outer sheath, material	PUR
Material, fillerPEMaterial wire insulationPPSingle wire, colorwhite, brown, green, yellow, gray, pink, blue, redThickness, insulation $\geq 0.21 \text{ mm}$ (Signal line) $\geq 0.38 \text{ mm}$ (Outer cable sheath)Overall twist8 wires around filler to the coreLength of twist, overall twist 58 mm Max. conductor resistance $139 \Omega/\text{km}$ (at $20 \degree \text{C}$)Insulation resistance $1 \text{ G}\Omega^*\text{km}$ (at $20 \degree \text{C}$)Nominal voltage, cable $\leq 300 \text{ V AC}$ Test voltage $\geq 3000 \text{ V AC}$ (Spark test)Minimum bending radius, fixed installation $5 \times D$ Minimum bending radius, flexible installation $10 \times D$ Smallest bending radius, fixed installation 25.5 mm	External sheath, color	black-gray RAL 7021
Material wire insulation PP Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 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) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Conductor material	Bare Cu litz wires
Single wire, color white, brown, green, yellow, gray, pink, blue, red Thickness, insulation ≥ 0.21 mm (Signal line) ≥ 0.38 mm (Outer cable sheath) Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 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) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Material, filler	PE
Thickness, insulation $ \geq 0.21 \text{ mm (Signal line)} $ $ \geq 0.38 \text{ mm (Outer cable sheath)} $ Overall twist $ 8 \text{ wires around filler to the core} $ Length of twist, overall twist $ 58 \text{ mm} $ Max. conductor resistance $ 139 \Omega/\text{km (at } 20 \text{ °C)} $ Insulation resistance $ 1 \text{ G}\Omega^*\text{km (at } 20 \text{ °C)} $ Nominal voltage, cable $ \leq 300 \text{ V AC} $ Test voltage $ \geq 3000 \text{ V AC (Spark test)} $ Minimum bending radius, fixed installation $ 5 \times D $ Minimum bending radius, flexible installation $ 10 \times D $ Smallest bending radius, fixed installation $ 25.5 \text{ mm} $	Material wire insulation	PP
$\geq 0.38 \text{ mm (Outer cable sheath)}$ Overall twist $8 \text{ wires around filler to the core}$ Length of twist, overall twist 58 mm Max. conductor resistance $139 \Omega/\text{km (at } 20 ^{\circ}\text{C})$ Insulation resistance $1 \text{ G}\Omega^*\text{km (at } 20 ^{\circ}\text{C})$ Nominal voltage, cable $\leq 300 \text{ V AC}$ Test voltage $\geq 3000 \text{ V AC (Spark test)}$ Minimum bending radius, fixed installation $5 \times D$ Minimum bending radius, flexible installation $10 \times D$ Smallest bending radius, fixed installation 25.5 mm	Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Overall twist 8 wires around filler to the core Length of twist, overall twist 58 mm Max. conductor resistance 139 Ω /km (at 20 °C) Insulation resistance 1 $G\Omega$ *km (at 20 °C) Nominal voltage, cable $\leq 300 \text{ V AC}$ Test voltage $\geq 3000 \text{ V AC}$ (Spark test) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Thickness, insulation	≥ 0.21 mm (Signal line)
Length of twist, overall twist 58 mm Max. conductor resistance $139 \Omega/\text{km}$ (at 20 °C)Insulation resistance $1 \text{ G}\Omega^*\text{km}$ (at 20 °C)Nominal voltage, cable $\leq 300 \text{ V AC}$ Test voltage $\geq 3000 \text{ V AC}$ (Spark test)Minimum bending radius, fixed installation $5 \times D$ Minimum bending radius, flexible installation $10 \times D$ Smallest bending radius, fixed installation 25.5 mm		≥ 0.38 mm (Outer cable sheath)
Max. conductor resistance139 Ω /km (at 20 °C)Insulation resistance1 $G\Omega$ *km (at 20 °C)Nominal voltage, cable≤ 300 V ACTest voltage≥ 3000 V AC (Spark test)Minimum bending radius, fixed installation5 x DMinimum bending radius, flexible installation10 x DSmallest bending radius, fixed installation25.5 mm	Overall twist	8 wires around filler to the core
Insulation resistance 1 GΩ*km (at 20 °C) Nominal voltage, cable ≤ 300 V AC Test voltage ≥ 3000 V AC (Spark test) Minimum bending radius, fixed installation $5 \times D$ Minimum bending radius, flexible installation $10 \times D$ Smallest bending radius, fixed installation 25.5 mm	Length of twist, overall twist	58 mm
Nominal voltage, cable ≤ 300 V AC Test voltage ≥ 3000 V AC (Spark test) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Max. conductor resistance	139 Ω/km (at 20 °C)
Test voltage ≥ 3000 V AC (Spark test) Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Insulation resistance	1 GΩ*km (at 20 °C)
Minimum bending radius, fixed installation 5 x D Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Nominal voltage, cable	≤ 300 V AC
Minimum bending radius, flexible installation 10 x D Smallest bending radius, fixed installation 25.5 mm	Test voltage	≥ 3000 V AC (Spark test)
Smallest bending radius, fixed installation 25.5 mm	Minimum bending radius, fixed installation	5 x D
	Minimum bending radius, flexible installation	10 x D
Smallest bending radius, movable installation 51 mm	Smallest bending radius, fixed installation	25.5 mm
	Smallest bending radius, movable installation	51 mm



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Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 51 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Flame resistance	according to UL 758/1581 (horizontal)
	in accordance with UL 758/1581 FT2
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
	Low adhesion
	abrasion-resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
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) (male connector/female connector)	-25 °C 85 °C (Plug / socket)

Standards and regulations

M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104



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Drawings

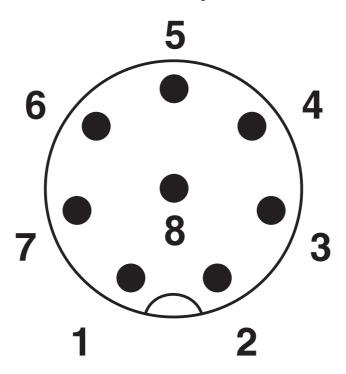
Ø10 Ø7

Dimensional drawing

M8 x 1 male plug, angled version

Schematic diagram

28



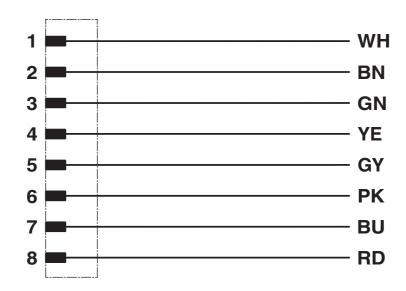
M8 plug pin assignment, 8-pos., view of pin side



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Circuit diagram



Contact assignment of the M8 plug



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1404182

<u> </u>	UL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	1.5 A	-	-

•	cUL Listed Approval ID: FILE E 221474	E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
		30 V	1.5 A	-	-	

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



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Classifications

ECLASS

	ECLASS-13.0	27060311	
ETIM			
	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%	
EF3.0 Climate Change		
CO2e kg	1.114 kg CO2e	

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