

1425068

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Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: L, on free cable end, cable length: 10 m, for direct current up to 16 A/63 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- · Protection against mismatching, thanks to special L-coding
- · Our standard: robust halogen-free PUR cable

Commercial data

Item number	1425068
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	AF1CCR
GTIN	4055626384061
Weight per piece (including packing)	1,363 g
Weight per piece (excluding packing)	1,474.38 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Power cable
Energy supply
4
1
no
L
III
3

Material specifications

Flammability rating according to UL 94	V0
Material of grip body	PP
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	63 V DC
Nominal current I _N	16 A

Mechanical properties

Med	hani	cal c	łata.

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Туре	Plug straight M12
Coding type	L (Power)

Connection 2

Туре	free cable end

Cable/line

Cable length	10 m	
PUR halogen-free black [PUR]		



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UL AWM Style 20233 / 10493 (80°C/300 V) Number of positions 4 Shielded no Cable type PUR halogen-free black [PUR] Conductor structure, voltage supply 141x 0.15 mm AWG power supply 14 Conductor cross section 4x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 8.80 mm ±0.25 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, insulation ≥ 0.31 mm Max. conductor resistance ≤ 8 0/km (at 20 °C) Insulation resistance ≥ 1 GΩ*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 10	Dimensional drawing	
Number of positions 4 Shielded no Cable type PUR halogen-free black [PUR] Conductor structure, voltage supply 141x 0.15 mm AWG power supply 14 Conductor cross section 4x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 8.80 mm ±0.25 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 ≥ 0.31 mm Max. conductor resistance ≤ 8 0/Km (at 20 °C) Insulation resistance ≥ 1 GΩ*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 10 x D Minimum bending radius, fixed installation 44 mm Smallest bending radius, fixed installation 44 mm Smallest bending radius	Cable weight	144 kg/km
Shielded no Cable type PUR halogen-free black [PUR] Conductor structure, voltage supply 141 x 0.15 mm AWG power supply 14 Conductor cross section 4x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 8.80 mm ±0.25 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 ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 Ω/km (at 20 °C) Insulation resistance ≥ 1 GC*km (at 20 °C) Insulation resistance ≥ 3000 V AC Test voltage ≥ 3000 V AC Test voltage ≥ 3000 V AC (Spark test) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 44 mm Smallest bending radius, fixed installation 44 mm Smallest bending radius	UL AWM Style	20233 / 10493 (80°C/300 V)
Cable type PUR halogen-free black [PUR] Conductor structure, voltage supply 141x 0.15 mm AWG power supply 14 Conductor cross section 4x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 8.80 mm ±0.25 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 ≥ 0.31 mm Max. conductor resistance ≤ 8 Ω/km (at 20 °C) Insulation resistance ≥ 1 GΩ*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) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 44 mm Smallest bending radius, fixed installation 44 mm Smallest bending radius, movable installation 48 mm Dynamic load capacity (bending) Max. bend	Number of positions	4
Conductor structure, voltage supply 141x 0.15 mm AWG power supply 14 Conductor cross section 4x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 8.80 mm ±0.25 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 ≥ 0.31 mm Max. conductor resistance ≥ 1 GΩ*km (at 20 °C) Insulation resistance ≥ 1 GΩ*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) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 44 mm Smallest bending radius, fixed installation 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s,	Shielded	no
AWG power supply 14 Conductor cross section 4x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 8.80 mm ±0.25 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 ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 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 10 x D Smallest bending radius, fixed installation 44 mm Smallest bending radius, fixed installation 44 mm Smallest bending radius, movable installation 48 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² Halogen-free in accordance wit	Cable type	PUR halogen-free black [PUR]
Conductor cross section 4x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 8.80 mm ±0.25 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 ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≥ 1 GΩ*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 44 mm Smallest bending radius, fixed installation 48 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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	Conductor structure, voltage supply	141x 0.15 mm
Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 8.80 mm ±0.25 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 ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 Ω/km (at 20 °C) Insulation resistance ≥ 1 GΩ*km (at 20 °C) Nominal voltage, cable ≤ 300 V AC Test voltage ≥ 300 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 60332-1-2 Flame resistance According to UL 758/1581 (Cable F	AWG power supply	14
External cable diameter Outer sheath, material External sheath, color Conductor material Bare Cu litz wires Material wire insulation PP Single wire, color brown, white, blue, black Thickness, insulation Thickness, outer sheath Max. conductor resistance Insulation resistance Sa Oxiva (Spark test) Minimum bending radius, fixed installation Smallest bending radius, fixed installation Dynamic load capacity (bending) Halogen-free Halogen-free Resistance to oil Resistance to oil Resistance to oil Resistance to Se Rother Se Natl 100 CC Bare Cu litz wires Bare Cu li	Conductor cross section	4x 2.5 mm²
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 ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UIL 758/1581 FT1 According to DIN EN 60332-1-2 Re	Wire diameter incl. insulation	2.85 mm ±0.1 mm
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 ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Flame resistance According to UL 758/1581 (Cable Flame) according to DIN EN 60332-1-2 according to DIN EN 60811-404, 168 h at 100 °C	External cable diameter	8.80 mm ±0.25 mm
Conductor material Bare Cu litz wires Material wire insulation PP Single wire, color brown, white, blue, black Thickness, insulation ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to DIN EN 60332-1-2 according to DIN EN 60311-404, 168 h at 100 °C	Outer sheath, material	PUR
Material wire insulation PP Single wire, color brown, white, blue, black Thickness, insulation ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	External sheath, color	black-gray RAL 7021
Single wire, color brown, white, blue, black Thickness, insulation ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² Halogen-free in accordance with DIN VDE 0472 part 815 Flame resistance According to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Conductor material	Bare Cu litz wires
Thickness, insulation ≥ 0.31 mm approx. 0.76 mm Max. conductor resistance ≤ 8 Ω/km (at 20 °C) Insulation resistance ≥ 1 GΩ*km (at 20 °C) Insulation resistance 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 Smallest bending radius, movable installation B mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 According to UL 758/1581 (Cable Flame) according to UL 758/1581 FTT According to DIN EN 6032-1-2 Resistance to oil	Material wire insulation	PP
Thickness, outer sheath Max. conductor resistance ≤ 8 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 Smallest bending radius, movable installation Bynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil	Single wire, color	brown, white, blue, black
Max. conductor resistance ≤ 8 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) Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² Halogen-free in accordance with DIN VDE 0472 part 815 Flame resistance According to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Thickness, insulation	≥ 0.31 mm
Insulation resistance ≥ 1 GΩ*km (at 20 °C) ≤ 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 Flame resistance According to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil	Thickness, outer sheath	approx. 0.76 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Max. conductor resistance	≤ 8 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 44 mm Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Minimum bending radius, fixed installation Minimum bending radius, flexible installation Smallest bending radius, fixed installation Smallest bending radius, movable installation Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil	Nominal voltage, cable	≤ 300 V AC
Minimum bending radius, flexible installation Smallest bending radius, fixed installation Smallest bending radius, movable installation 88 mm Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Test voltage	≥ 3000 V AC (Spark test)
Smallest bending radius, fixed installation Smallest bending radius, movable installation Bas mm Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Minimum bending radius, fixed installation	5 x D
Smallest bending radius, movable installation Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil Resistance to oil	Minimum bending radius, flexible installation	10 x D
Dynamic load capacity (bending) Max. bending cycles: 4000000, Bending radius: 10 x D, 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Smallest bending radius, fixed installation	44 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 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Smallest bending radius, movable installation	88 mm
in accordance with DIN EN 50267-2-1 Flame resistance	Dynamic load capacity (bending)	Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10
According to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Halogen-free	in accordance with DIN VDE 0472 part 815
according to UL 758/1581 FT1 According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C		in accordance with DIN EN 50267-2-1
According to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C	Flame resistance	According to UL 758/1581 (Cable Flame)
Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C		according to UL 758/1581 FT1
		According to DIN EN 60332-1-2
Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10	Resistance to oil	according to DIN EN 60811-404, 168 h at 100 °C
	Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10



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	abrasion-resistant
	Resistant to salt water
Ambient temperature (operation)	-50 °C 80 °C (cable, fixed installation)
	-30 °C 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C 85 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111

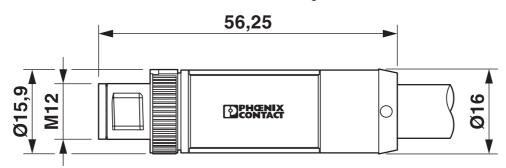


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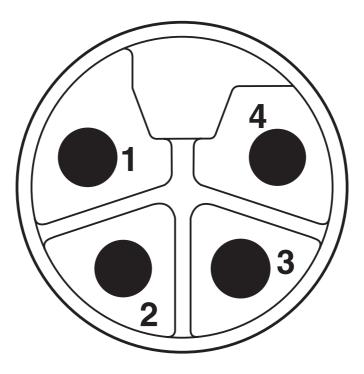
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram

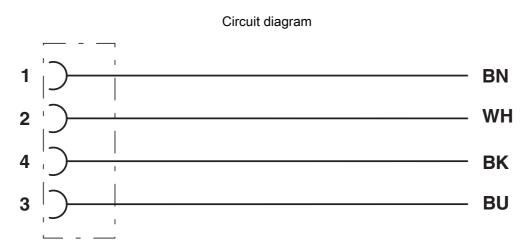


Pin assignment M12 male connector, 4-pos.



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Contact assignment of the M12 plug



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Approvals

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UL Listed

Approval ID: E468743



cUL Listed

Approval ID: E468743



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387



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Classifications

ECLASS

	ECLASS-13.0	27060327	
	ECLASS-15.0	27060327	
ETIM			
			
	ETIM 9.0	EC001855	
LINODOO			
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			

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