

1414888

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Power cable, 5-position, PUR halogen-free, gray RAL 7001, shielded, Advanced Shielding Technology, Plug straight M12, coding: L, on free cable end, cable length: 3 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
- Shield power reliably 360° shielding to reduce electromagnetic loads
- · Our standard: robust halogen-free PUR cable

Commercial data

Item number	1414888
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	BF1CDP
GTIN	4055626035185
Weight per piece (including packing)	655.1 g
Weight per piece (excluding packing)	650 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Product properties

Power cable
5
Power supply
1
yes
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
Protective circuit	unwired

Mechanical properties

ta

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Туре	Plug straight M12
Coding type	L (Power)
Connection 2	

Connection 2

Туре	free cable end

Cable/line

Cable length	3 m

PUR halogen-free gray [280]



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Cable weight 202 kg/km UL AWM Style 20233 / 10493 (80°C/300 V) Number of positions 5 Shielded yes Cable type PUR halogen-free gray [280] Conductor cross section \$x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 10.40 mm ±0.3 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, pink Thickness, insulation 2 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance \$ 1 GΩ*km (at 20 °C) Max. conductor resistance \$ 3 00 km (at 20 °C) Nominal voltage, cable \$ 3000 V AC Test voltage \$ 3000 V AC Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 5 x D Smallest bending radius, fixed installation 5 x D Max. bending voles 500000	Dimensional drawing	
Number of positions 5 Shielded yes Cable type PUR halogen-free gray [280] Conductor cross section 5x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 10.40 mm ±0.3 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, pink Thickness, insulation ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≥ 16 Ω°km (at 20°C) Nominal voitage, cable ≤ 300 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 10 x D Smallest bending radius, fixed installation 10 x D Max. bending cycles 5000000 Halogen-free in accordance with DIN VDE 0472 part 815 If a coording to UL 758/1581 (Cable weight	202 kg/km
Shielded yes Cable type PUR halogen-free gray [280] Conductor cross section 5x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 10.40 mm ±0.3 mm Cuter sheath, material PUR External sheath, color gray RAL 7001 Conductor material Bare Cu litz wires Material wire insulation PP Single wire, color box on, white, blue, black, pink 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) 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 10 x D Smallest bending radius, fixed installation 104 mm Max. bending oycles 5000000 Halogen-free in accordance with DIN VDE 0472 part 815	UL AWM Style	20233 / 10493 (80°C/300 V)
Cable type PUR halogen-free gray [280] Conductor cross section 5x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 10.40 mm ±0.3 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, pink Thickness, insulation 2 0.31 mm Max. conductor resistance \$ 80 /km (at 20 °C) Insulation resistance \$ 16 Gn*km (at 20 °C) Insulation resistance \$ 16 Gn*km (at 20 °C) Nominal voltage, cable \$ 3000 V AC Test voltage \$ 3000 V AC (Spark test) Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 10 x D Max. bending cycles 5000000 Halogen-free in accordance with DIN VDE 0472 part 815 Flame resistance According to UL 758/1581 (Cable Flame) according to UL 758/1581 (Table Flame)	Number of positions	5
Conductor cross section 5x 2.5 mm² Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 10.40 mm ±0.3 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, pink Thickness, insulation ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≥ 1 6Ω*km (at 20 °C) Insulation resistance ≥ 1 6Ω*km (at 20 °C) Nominal voltage, cable ≤ 3000 V AC Test voltage ≥ 3000 V AC Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 52 mm Smallest bending radius, movable installation 104 mm Max. bending voles in accordance with DIN VDE 0472 part 815 Halogen-free in accordance with DIN VDE 0472 part 815 Flame resistance According to UL 758/1581 (Cable Flame) according t	Shielded	yes
Wire diameter incl. insulation 2.85 mm ±0.1 mm External cable diameter 10.40 mm ±0.3 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, pink Thickness, insulation ≥ 0.31 mm Thickness, outer sheath approx. 0.76 mm Max. conductor resistance ≤ 8 0/km (at 20 °C) Insulation resistance ≥ 1 GΩ*km (at 20 °C) Nominal voltage, cable ≥ 3000 V AC Nominal voltage, cable ≥ 3000 V AC Minimum bending radius, fixed installation 5 x D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 52 mm Smallest bending radius, movable installation 104 mm Max. bending cycles 5000000 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 UI N F8 60332-1-2	Cable type	PUR halogen-free gray [280]
External cable diameter 10.40 mm ±0.3 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, pink Thickness, insulation ≥ 0.31 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 × D Minimum bending radius, fixed installation 10 x D Smallest bending radius, fixed installation 104 mm Max. bending cycles 5000000 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN Exp 50267-2-1 Flame resistance Resistance to oil according to UL 758/1581 (Cable Flame) according to DIN Exp 60332-1-2 according to DIN Exp 60332-1-2 Resistance to oil hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant		
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, pink Thickness, insulation ≥ 0.31 mm Max. conductor resistance s8 0/km (at 20 °C) Insulation resistance ≥ 1 GΩ*km (at 20 °C) Insulation resistance ≥ 3000 V AC 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 52 mm Max. bending cycles 5000000 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 60332-1-2 Resistance to oil According to DIN EN 6031-404, 168 h at 100 °C Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10	Wire diameter incl. insulation	2.85 mm ±0.1 mm
External sheath, color gray RAL 7001 Conductor material Bare Cu litz wires Material wire insulation PP Single wire, color brown, white, blue, black, pink 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) Insulation resistance ≥ 300 V AC Nominal voltage, cable ≤ 300 V AC (Spark test) 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, movable installation 104 mm Max. bending cycles 5000000 Halogen-free in accordance with DIN VDE 0472 part 815 Halogen-free According to UL 758/1581 (Cable Flame) Exerciting to UL 758/1581 (Cable Flame) according to UL 758/1581 (Toll Plame) according to DIN EN 60332-1-2 Resistance to oil according to DIN EN 60811-404, 168 h at 100 °C Other resistance Hydrolysis and microbe resistant a	External cable diameter	10.40 mm ±0.3 mm
External sheath, color gray RAL 7001 Conductor material Bare Cu litz wires Material wire insulation PP Single wire, color brown, white, blue, black, pink 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) Insulation resistance ≥ 3000 V AC Nominal voltage, cable ≤ 3000 V AC (Spark test) Test voltage ≥ 3000 V AC (Spark test) Minimum bending radius, fixed installation 5 × D Minimum bending radius, fixed installation 10 x D Smallest bending radius, movable installation 5000000 Max. bending cycles 5000000 Halogen-free in accordance with DIN VDE 0472 part 815 Flame resistance According to UL 758/1581 (Cable Flame) according to UL 758/1581 (Cable Flame) according to UD TN EN 60332-1-2 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 Low adhesion	Outer sheath, material	
Conductor material Bare Cu litz wires Material wire insulation PP Single wire, color brown, white, blue, black, pink 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 52 mm Smallest bending radius, movable installation 104 mm Max. bending cycles 50000000 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 (Table Flame) According to DIN EN 60332-1-2 According to DIN EN 60332-1-2 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 Low adhesion abrasion-resistant Resistant to salt wate		gray RAL 7001
Single wire, color brown, white, blue, black, pink 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 52 mm Smallest bending radius, fixed installation 104 mm Max. bending cycles 5000000 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 Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)	Conductor material	
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 52 mm Smallest bending radius, fixed installation 104 mm Max. bending cycles 5000000 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 Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant according to salt water Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)	Material wire insulation	PP
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 50 x D Smallest bending radius, fixed installation 52 mm Smallest bending radius, movable installation 104 mm Max. bending cycles 5000000 Halogen-free in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 4 Flame resistance According to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to UI 758/1581 FT1 According to DIN EN 60332-1-2 4 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 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) -50 °C (.able, fixed installation)	Single wire, color	brown, white, blue, black, pink
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 52 mm Smallest bending radius, movable installation 104 mm Max. bending cycles 5000000 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 6031-404, 168 h at 100 °C Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)	Thickness, insulation	≥ 0.31 mm
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 52 mm Smallest bending radius, movable installation 104 mm Max. bending cycles 5000000 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 Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)	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 52 mm Smallest bending radius, movable installation 104 mm Max. bending cycles 5000000 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 Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)	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 52 mm Smallest bending radius, movable installation 104 mm Max. bending cycles 5000000 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 Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) 5 × C (cable, fixed installation)	Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Minimum bending radius, fixed installation5 x DMinimum bending radius, flexible installation10 x DSmallest bending radius, fixed installation52 mmSmallest bending radius, movable installation104 mmMax. bending cycles5000000Halogen-freein accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1Flame resistanceAccording to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2Resistance to oilaccording to DIN EN 60811-404, 168 h at 100 °COther resistanceHydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt waterAmbient temperature (operation)-50 °C 80 °C (cable, fixed installation)	Nominal voltage, cable	≤ 300 V AC
Minimum bending radius, fixed installation5 x DMinimum bending radius, flexible installation10 x DSmallest bending radius, fixed installation52 mmSmallest bending radius, movable installation104 mmMax. bending cycles5000000Halogen-freein accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1Flame resistanceAccording to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1 According to DIN EN 60332-1-2Resistance to oilaccording to DIN EN 60811-404, 168 h at 100 °COther resistanceHydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt waterAmbient temperature (operation)-50 °C 80 °C (cable, fixed installation)	Test voltage	≥ 3000 V AC (Spark test)
Smallest bending radius, fixed installation52 mmSmallest bending radius, movable installation104 mmMax. bending cycles5000000Halogen-freein accordance with DIN VDE 0472 part 815Flame resistanceAccording to UL 758/1581 (Cable Flame)according to UL 758/1581 FT1According to DIN EN 60332-1-2Resistance to oilaccording to DIN EN 60811-404, 168 h at 100 °COther resistanceHydrolysis and microbe resistant as per VDE 0282 section 10Low adhesionabrasion-resistantAmbient temperature (operation)-50 °C 80 °C (cable, fixed installation)	Minimum bending radius, fixed installation	
Smallest bending radius, movable installation104 mmMax. bending cycles5000000Halogen-freein accordance with DIN VDE 0472 part 815in accordance with DIN EN 50267-2-1Flame resistanceAccording to UL 758/1581 (Cable Flame)according to UL 758/1581 FT1According to DIN EN 60332-1-2Resistance to oilaccording to DIN EN 60811-404, 168 h at 100 °COther resistanceHydrolysis and microbe resistant as per VDE 0282 section 10Low adhesionabrasion-resistantabrasion-resistantResistant to salt waterAmbient temperature (operation)-50 °C 80 °C (cable, fixed installation)	Minimum bending radius, flexible installation	10 x D
Max. bending cycles Flame resistance Flame resistance 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 Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) 5000000 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 DIN EN 60332-1-2 Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water	Smallest bending radius, fixed installation	52 mm
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)	Smallest bending radius, movable installation	104 mm
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 Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) in accordance with DIN EN 50267-2-1 According to UL 758/1581 FT1 According to DIN EN 60832-1-2 according to DIN EN 60811-404, 168 h at 100 °C Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water	Max. bending cycles	5000000
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 Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) in accordance with DIN EN 50267-2-1 According to UL 758/1581 FT1 According to DIN EN 60832-1-2 according to DIN EN 60811-404, 168 h at 100 °C Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water	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 Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)		
According to DIN EN 60332-1-2 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 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)	Flame resistance	According to UL 758/1581 (Cable Flame)
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 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)		according to UL 758/1581 FT1
Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water		
Other resistance Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant Resistant to salt water Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)	Resistance to oil	according to DIN EN 60811-404, 168 h at 100 °C
abrasion-resistant Resistant to salt water Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)	Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
Resistant to salt water -50 °C 80 °C (cable, fixed installation)		Low adhesion
Ambient temperature (operation) -50 °C 80 °C (cable, fixed installation)		abrasion-resistant
		Resistant to salt water
	Ambient temperature (operation)	-50 °C 80 °C (cable, fixed installation)



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Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

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



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060327
ETIM	
ETIM 9.0	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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