

#### 1424111

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Power cable, 4-position, PUR halogen-free, orange RAL 2003, shielded (Tinned copper-braided shield, approx. 85% covering), Advanced Shielding Technology, Plug angled M12, coding: S, on free cable end, cable length: 10 m, for AC current up to 12 A/690 V

## Your advantages

- · Easy and safe: 100 % electrically tested plug-in components
- · Protection against incorrect connection using special S-coding
- Our standard: robust halogen-free PUR cable
- Shield power reliably 360° shielding to reduce electromagnetic loads

### Commercial data

Item number	1424111
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	BF1CCP
Catalog page	Page 289 (C-2-2019)
GTIN	4046356693158
Weight per piece (including packing)	1,441 g
Weight per piece (excluding packing)	1,422.7 g
Customs tariff number	85444290
Country of origin	DE



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## Technical data

## Product properties

Pr	roduct type	Power cable
N	umber of positions	4
Ap	pplication	Power supply
No	b. of cable outlets	1
Sł	nielded	yes
Со	oding	S
Insul	ation characteristics	
O	vervoltage category	III
De	egree of pollution	3
Materi	al specifications	
Fla	ammability rating according to UL 94	V0
M	aterial of grip body	PP
Co	ontact material	CuZn
Co	ontact surface material	Ni/Au
Co	ontact carrier material	PA
M	aterial for screw connection	Zinc die-cast, nickel-plated
Electri	cal properties	
In	sulation resistance	≥ 100 MΩ
No	ominal voltage U <sub>N</sub>	690 V AC
No	ominal current I <sub>N</sub>	12 A
Pr	rotective circuit	unwired
Mecha	anical properties	
Mech	nanical data	
In	sertion/withdrawal cycles	> 100

#### Connector

Connection 1		
Туре	Plug angled M12	
Coding type	S (Power)	
Connection 2		
Туре	free cable end	
Cable/line		
Cable length	10 m	
PUR halogen-free orange shielded [PUR]		



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Dimensional drawing

20234 / 10492 (80°C/1000 V)
4
yes
PUR halogen-free orange shielded [
4x 1.5 mm²
< 2 F mm

ULAWM Style20234 / 10492 (80°C/1000 V)Number of positions4ShieldedyseCable typePUR halogen-free orange shielded [PUR]Cable type82.5 mmOutor cross section4x.1.5 mm <sup>4</sup> Wire diameter incl. insulation22.5 mmExternal cable diameter9.70 mm 8.0 3 mmOuter sheath, material9.70 mm 8.0 3 mmConductor material9.70 mm 8.0 3 mmConductor material9.70 mm 8.0 3 mmMaterial wire insulation9.70 mm 8.0 3 mmSingle wire, color9.80 kl. 1, black 2, black 3, greenyellowThickness, insulation4.00 mmOverall wire insulation9.00 mmThickness, outer sheath1.00 mmOverall wire insulation resistance1.30 M/km (at 20 °C)Insulation resistance1.000 VACNominal voltage, cable installation5.x DMaximum bending radius, fixed installation9.0000Smallest bending radius, fixed installation4.0000Maximum bending radius, fixed installation4.0000Maximum bending radius, fixed installation4.0000Maximum bending radius, fixed installation4.0000Falen resistanceinaccordance with EN 60332-1-2Inaccordance with EN 60332-1-2inaccordance with EN 60332-1-2Halogen-freeicacordance with EN 60332-1-2Falen resistanceicacordance with EN 60332-1-2In accordance with EN 60332-1-2inaccordance with EN 60332-1-2In accordance with EN 60332-1-2inaccordance with EN 60332-1-2In acco		
Shielded     yes       Cable type     PUR halogen-free orange shielded [PUR]       Conductor cross section     4x 1.5 mm       External cable diameter     9.70 mm ±0.3 mm       Dater sheath, material     PUR       Outer sheath, naterial     PUR       Start and sheath, color     orange RAL 2003       Conductor material     Bare Cu litz wires       Material wire insulation     PP       Single wire, color     black 1, black 2, black 3, green/yellow       Thickness, insulation     0.40 mm       Thickness, outer sheath     1.20 mn       Overall twist     4 wires optimally twisted       Max. conductor resistance     \$13.3 Ω/km (at 20 °C)       Insulation resistance     \$1000 V AC       Test voltage     4260 V AC (S min.)       Minimum bending radius, fixed installation     57.5 D       Maalest bending radius, fixed installation     7.5 x D       Malagen-free     2cording to VDE 0282-13 Appendix C       Torsion force     425 °/m       Halogen-free     in accordance with EN 60332-1-2       Halogen-free     in accordance with EN 60332-1-2       Halogen-free	UL AWM Style	20234 / 10492 (80°C/1000 V)
Cable type     PUR halogen-free orange shielded [PUR]       Conductor cross section     4x 1.5 mm <sup>1</sup> Wire diameter incl. insulation     \$2.5 mm       External cable diameter     9.70 mm ±0.3 mm       Outer sheath, material     PUR       External sheath, color     orange RAL 2003       Conductor material     Bare Cu litz wires       Material wire insulation     PP       Single wire, color     black 1, black 2, black 3, green/yellow       Thickness, insulation     0.40 mm       Thickness, insulation     4.01 mm       Overall wits     4 wires optimally twisted       Max. conductor resistance     \$13.0 /km (at 20 °C)       Insulation resistance     \$1000 V AC       Nominal voltage, cable     1000 V AC       Minimum bending radius, fixed installation     7.5 x D       Minimum bending radius, fixed installation     7.3 mm       Max. bending cycles     4000000       Torsion force     425 °/m       Halogen-free     in accordance with EN 60332-1-2       Inacc. to UL 1581 WVH     According to VDE 0282-13 Appendix C       Flame resistance     in accordance with EN 60332-1-2 <t< td=""><td>Number of positions</td><td>4</td></t<>	Number of positions	4
Conductor cross section4x 1.5 mm²Wre diameter incl. insulation\$2.5 mmExternal cable diameter9.70 mm ±0.3 mmOuter sheath, materialPURExternal sheath, colororange RAL 2003Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorblack 1, black 2, black 3, green/yellowThickness, insulation0.40 mmThickness, outer sheath1.20 mmOverall twist4 wires optimally twistedMax. conductor resistance\$13.3 0/km (at 20 °C)Insulation resistance\$1000 V ACNominal vottage, cable1000 V ACTest voltage4280 V AC (5 min.)Minimum bending radius, fixed installation7.5 x DSmallest bending radius, morable installation7.9 mmSmallest bending radius, morable installation4000000Torsion force1.25 °mHalogen-freeaccording to VDE 0282-13 Appendix CHalogen-freein accordance with EN 60332-12Halogen-freein accordance with EN 60332-12Resistance to oilin accordance with EN 60332-12Cher resistancein accordance with EN 60332-12In accordance with DIN EN 60331-12-1According to DIN EN 50336-10-2Outer resistanceUV resistantCher resistanceUV resistantAccording to DIN EN 50336-10-2According to DIN EN 50336-10-2Anbient temperature (operation)40 °C 90 °C (cable, fixed installation)	Shielded	yes
Wire diameter incl. insulation          ± 2.5 mm         3.70 mm ±0.3 mm        External cable diameter          9.70 mm ±0.3 mm        Outer sheath, material          PUR        External sheath, color          orange RAL 2003        Conductor material          Bare Cu litz wires        Material wire insulation          PP        Single wire, color          black 1, black 2, black 3, green/yellow        Thickness, insulation          0.40 mm        Overall twist          4 wires optimally twisted        Nax. conductor resistance          5 13.3 Ω/km (at 20 °C)        Insulation resistance          2 10 MΩ*km (at 20 °C)        Nominal voltage, cable          200 V AC (5 min.)        Minimum bending radius, fixed installation          7.5 x D        Minimum bending radius, fixed installation          7.5 x D        Smallest bending radius, fixed installation          7.5 x D        Max. bending cycles          40000000        Torsion force          25 <sup>7</sup> m        Halogen-free	Cable type	PUR halogen-free orange shielded [PUR]
External cable diameter9.70 mm 4.0 mmOuter sheath, materialPURExternal sheath, colororange RAL 2003Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorblack 1, black 2, black 3, greenlyellowThickness, insulation0.40 mmThickness, insulation4 wires optimally twistedOverall twist4 wires optimally twistedMax. conductor resistance\$ 100 VACInsulation resistance\$ 1000 VACNominal voltage, cable1000 VACTorsion gradus, fixed installation\$ 5 x DMinimum bending radius, fixed installation73 mmSmallest bending radius, fixed installation73 mmMax. bending voltage, rable4000000Torsion force\$ 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFigure resistancein accordance with EN 60332-1-2In ac	Conductor cross section	4x 1.5 mm <sup>2</sup>
Outer sheath, naterialPURExternal sheath, colororange RAL 2003Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorblack 1, black 2, black 3, green/yellowThickness, insulation0.40 mmThickness, outer sheath1.20 mmOveral twist4 wires optimally twistedMax. conductor resistance\$133.0/km (at 20 °C)Insulation resistance200 VAC (5 min.)Nominal voltage, cable0000 VACMinimum bending radius, fixed installation5 x DMinimum bending radius, fixed installation7.5 x DSmallest bending radius, fixed installation73 mmMax. bending cycles4000000Fleme resistancein according to VDE 028213 Appendix CFleme resistance to oilin according to VDE 028213 Appendix CAppendiain according to VDE 028213 Appendix CFleme resistancein according to VDE 028213 Appendix CAppendiain accordin	Wire diameter incl. insulation	≤ 2.5 mm
External sheath, colororange RAL 2003Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorblack 1, black 2, black 3, green/yellowThickness, insulation0.40 mmThickness, outer sheath1.20 mmOveralt twist4 wires optimally twistedMax. conductor resistance\$ 13.0 Mm (at 20 °C)Insulation resistance1000 VACNominal voltage, cable1000 VAC (5 min.)Minimum bending radius, fixed installation5 x DSmallest bending radius, fixed installation75 x DMax. bending cycles400000Halogen-free1 accordance with EN 6032-1-2Halogen-freein accordance with DIN EN 6032-1-2Fesistancein accordance with DIN EN 6032-1-2In accordance with DIN EN 6031-12-1in accordance with DIN EN 6031-12-1According to DIN EN 50363-10-2Cording to DIN EN 50363-10-2Cher resistanceUV resistantOther resistanceUV resistantAntbient temperature (operation)40 °C 90 °C (cable, fixed installation)	External cable diameter	9.70 mm ±0.3 mm
Conductor materialBare Cu litz wiresMaterial wire insulationPPSingle wire, colorblack 1, black 2, black 3, green/yellowThickness, insulation0.40 mmThickness, outer sheath1.20 mmOverall twist4 wires optimally twistedMax. conductor resistance\$ 13.3 Ω/km (at 20 °C)Insulation resistance\$ 10 MQ*km (at 20 °C)Nominal voltage, cable1000 V ACTest voltage4260 V AC (5 min.)Minimum bending radius, fixed installation5 x DSmallest bending radius, fixed installation73 mmMax. condiuc groups4000000Smallest bending radius, movable installation73 mmMax. bending cyclesaccording to VDE 028-13 Appendix CHalogen-freeaccording to VDE 028-213 Appendix CFlame resistancein accordance with EN 6032-1-2Insect to oilin accordance with EN 6032-1-2Resistance to oilin accordance with EN 6032-1-2According to CSA C 22.2 No. 210-05 FT1According to DIN EN 50363-10-2Other resistanceUV resistantAccording to DIN EN 50363-10-2Other resistanceUV resistantAccording to DIN EN 50363-10-2Action to DIN EN 50363-10-2Antonen temperature (operation)40 °C 90 °C (cable, fixed installation	Outer sheath, material	PUR
Material wire insulationPPSingle wire, colorblack 1, black 2, black 3, green/yellowThickness, insulation0.40 mmThickness, outer sheath1.20 mmOverall twist4 wires optimally twistedMax. conductor resistance≤ 13.3 Ω/km (at 20 °C)Insulation resistance1000 V ACTest voltage4260 V AC (5 min.)Minimum bending radius, fixed installation5 x DMinimum bending radius, fixed installation7.5 x DSmallest bending radius, movable installation73 mmMax. bending cycles4200 °C)Halogen-freeaccording to VDE 0282-13 Appendix CHalogen-freein according to VDE 0282-13 Appendix CFlame resistancein according to VDE 0282-13 Appendix CResistancein according to VDE 0282-13 Appendix CResistance to oilin accordance with EN 60332-1-2Other resistancein accordance with EN 60332-1-2Other resistancein accordance with DIN EN 60811-2-1According to DIN EN 50363-10-2UV resistantOther resistanceUV resistantOther resistanceUV resistantAutoring to DIN EN 50363-10-2UV resistantLow adhesion-40 °C	External sheath, color	orange RAL 2003
Single wire, colorblack 1, black 2, black 3, green/yellowThickness, insulation0.40 mmThickness, outer sheath1.20 mmOverall twist4 wires optimally twistedMax. conductor resistance≤ 13.3 Ω/km (at 20 °C)Insulation resistance≥ 10 MΩ°km (at 20 °C)Nominal voltage, cable1000 V ACTest voltage4260 V AC (5 min.)Minimum bending radius, fixed installation5 x DSmallest bending radius, fixed installation75 x DSmallest bending radius, fixed installation73 mmMax. bending cycles4000000Torsion force± 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2in acc. to UL 1581 VW1According to CSA C 22.2 No. 210-05 FT1Resistance to oilin accordance with DIN EN 60811-2-1According to DIN EN 50363-10-2UV resistantOther resistanceUV resistantArbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Conductor material	Bare Cu litz wires
Thickness, insulation0.40 mmThickness, outer sheath1.20 mmOverall twist4 wires optimally twistedMax. conductor resistance≤ 13.3 Ω/km (at 20 °C)Insulation resistance≥ 10 MΩ*km (at 20 °C)Nominal voltage, cable1000 V ACTest voltage4260 V AC (5 min.)Minimum bending radius, fixed installation5 x DSmallest bending radius, fixed installation7.5 x DSmallest bending radius, movable installation73 mmMax. bending cycles4000000Torsion force± 25 °mFlame resistancein accordance with EN 60332-1-2 in acc. to UL 1581 VW1 According to CSA C 22.2 No. 210-05 FT1Resistance to oilin accordance with DIN EN 60811-2-1 According to DIN EN 50363-10-2Other resistanceUV resistant I accordance with DIN EN 60811-2-1 According to DIN EN 50363-10-2Other resistanceUV resistant I ava dhesionAmbient temperature (operation)4-0 °C 90 °C (cable, fixed installation)	Material wire insulation	PP
Thickness, outer sheath1.20 mmOverall twist4 wires optimally twistedMax. conductor resistance< 13.3 Ω/km (at 20 °C)	Single wire, color	black 1, black 2, black 3, green/yellow
Overall twist4 wires optimally twistedMax. conductor resistance\$ 13.3 Ω/km (at 20 °C)Insulation resistance> 1000 V ACNominal voltage, cable1000 V ACTest voltage4260 V AC (5 min.)Minimum bending radius, fixed installation5 x DMinimum bending radius, fixed installation7.5 x DSmallest bending radius, movable installation49 mmSmallest bending radius, movable installation73 mmMax. bending cycles400000Torsion force± 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CInacc. to UL 1581 VW1in accordance with EN 60332-1-2In according to CSA C 22.2 No. 210-05 FT1in according to DIN EN 60811-2-1Resistance to oilin accordance with DIN EN 60811-2-1Other resistanceUV resistantOther resistanceUV resistantAccording to DIN EN 50363-10-2UV resistantAccording to DIN EN 50363-10-2Eva dhesionAntbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Thickness, insulation	0.40 mm
Max. conductor resistance   ≤ 13.3 Ω/km (at 20 °C)     Insulation resistance   ≥ 10 MΩ°km (at 20 °C)     Nominal voltage, cable   1000 V AC     Test voltage   4260 V AC (5 min.)     Minimum bending radius, fixed installation   5 x D     Minimum bending radius, fixed installation   7.5 x D     Smallest bending radius, fixed installation   49 mm     Smallest bending radius, movable installation   7.3 mm     Max. bending cycles   4000000     Torsion force   ± 25 °/m     Halogen-free   according to VDE 0282-13 Appendix C     Flame resistance   in accordance with EN 60332-1-2     in according to CSA C 22.2 No. 210-05 FT1   According to CSA C 22.2 No. 210-05 FT1     Resistance to oil   in accordance with DIN EN 60811-2-1     According to DIN EN 50363-10-2   According to DIN EN 50363-10-2     Other resistance   UV resistant     According to Clable, fixed installation   Low adhesion     Ambient temperature (operation)   -40 °C ( 90 °C (cable, fixed installation)	Thickness, outer sheath	1.20 mm
Insulation resistance   ≥ 10 MΩ*km (at 20 °C)     Nominal voltage, cable   1000 V AC     Test voltage   4260 V AC (5 min.)     Minimum bending radius, fixed installation   5 x D     Minimum bending radius, fixed installation   7.5 x D     Smallest bending radius, fixed installation   73 mm     Max. bending cycles   4000000     Torsion force   ± 25 °/m     Halogen-free   according to VDE 0282-13 Appendix C     Flame resistance   in accordance with EN 60332-1-2     in acc. to UL 1581 VW1   According to CSA C 22.2 No. 210-05 FT1     Resistance to oil   in accordance with DIN EN 60811-2-1     According to DIN EN 50363-10-2   UV resistant     Other resistance   UV resistant     According to DIN EN 50363-10-2   UV resistant     According to DIN EN 50363-10-2   UV resistant     According to DIN EN 50363-10-2   Div adhesion     Arnbient temperature (operation)   -40 °C 90 °C (cable, fixed installation)	Overall twist	4 wires optimally twisted
Nominal voltage, cable1000 V ACTest voltage4260 V AC (5 min.)Minimum bending radius, fixed installation5 x DMinimum bending radius, fixed installation7.5 x DSmallest bending radius, fixed installation49 mmSmallest bending radius, movable installation73 mmMax. bending cycles400000Max. bending cycles400000Flane resistancein according to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2Resistance to oilin accordance with DIN EN 60811-2-1Resistance to oilin accordance with DIN EN 60811-2-1Other resistanceUV resistantOther resistanceUV resistantAmbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Max. conductor resistance	≤ 13.3 Ω/km (at 20 °C)
Test voltage4260 V AC (5 min.)Minimum bending radius, fixed installation5 x DMinimum bending radius, fixed installation7.5 x DSmallest bending radius, fixed installation49 mmSmallest bending radius, movable installation73 mmMax. bending cycles4000000Torsion force± 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2In accordance with EN 60332-1-2in according to CSA C 22.2 No. 210-05 FT1Resistance to oilin accordance with DIN EN 60811-2-1According to DIN EN 50363-10-2UV resistantLow adhesionLow adhesionAmbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Minimum bending radius, fixed installation5 x DMinimum bending radius, fixed installation7.5 x DSmallest bending radius, fixed installation49 mmSmallest bending radius, movable installation73 mmMax. bending cycles400000Torsion force± 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2In according to CSA C 22.2 No. 210-05 FT1in according to CSA C 22.2 No. 210-05 FT1Resistance to oilin accordance with DIN EN 60811-2-1Other resistanceUV resistantOther resistanceUV resistantAmbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Nominal voltage, cable	1000 V AC
Minimum bending radius, flexible installation7.5 x DSmallest bending radius, fixed installation49 mmSmallest bending radius, movable installation73 mmMax. bending cycles400000Torsion force± 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2in acc. to UL 1581 VW1According to CSA C 22.2 No. 210-05 FT1Resistance to oilin accordance with DIN EN 60811-2-1According to DIN EN 50363-10-2UV resistantOther resistanceUV resistantAmbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Test voltage	4260 V AC (5 min.)
Smallest bending radius, fixed installation49 mmSmallest bending radius, movable installation73 mmMax. bending cycles400000Torsion force±25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2in acc. to UL 1581 VW1According to CSA C 22.2 No. 210-05 FT1Resistance to oilin accordance with DIN EN 60811-2-1According to DIN EN 50363-10-2VV resistantOther resistanceUV resistantAmbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Minimum bending radius, fixed installation	5 x D
Smallest bending radius, movable installation73 mmMax. bending cycles400000Torsion force± 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2In acc. to UL 1581 VW1According to CSA C 22.2 No. 210-05 FT1Resistance to oilin accordance with DIN EN 60811-2-1Chter resistanceUV resistantOther resistanceUV resistantAmbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Minimum bending radius, flexible installation	7.5 x D
Max. bending cycles400000Torsion force± 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2In acc. to UL 1581 VW1According to CSA C 22.2 No. 210-05 FT1Resistance to oilin accordance with DIN EN 60811-2-1Cother resistanceUV resistantOther resistanceUV resistantAmbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Smallest bending radius, fixed installation	49 mm
Torsion force± 25 °/mHalogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2in acc. to UL 1581 VW1in acc. to UL 1581 VW1Resistance to oilin accordance with DIN EN 60811-2-1Resistancein accordance with DIN EN 60811-2-1According to DIN EN 50363-10-2UV resistantOther resistanceUV resistantAmbient temperature (operation)-40 °C 90 °C (cable, fixed installation)	Smallest bending radius, movable installation	73 mm
Halogen-freeaccording to VDE 0282-13 Appendix CFlame resistancein accordance with EN 60332-1-2In acc. to UL 1581 VW1in according to CSA C 22.2 No. 210-05 FT1According to CSA C 22.2 No. 210-05 FT1in accordance with DIN EN 60811-2-1Resistance to oilin accordance with DIN EN 60811-2-1Other resistanceUV resistantOther resistanceUV resistantLow adhesion-40 °C 90 °C (cable, fixed installation)	Max. bending cycles	4000000
Flame resistance   in accordance with EN 60332-1-2     In acc. to UL 1581 VW1     According to CSA C 22.2 No. 210-05 FT1     Resistance to oil   in accordance with DIN EN 60811-2-1     According to DIN EN 50363-10-2     Other resistance   UV resistant     Low adhesion     Ambient temperature (operation)   -40 °C 90 °C (cable, fixed installation)	Torsion force	± 25 °/m
in acc. to UL 1581 VW1     According to CSA C 22.2 No. 210-05 FT1     Resistance to oil   in accordance with DIN EN 60811-2-1     According to DIN EN 50363-10-2   According to DIN EN 50363-10-2     Other resistance   UV resistant     Low adhesion   I.ow adhesion	Halogen-free	according to VDE 0282-13 Appendix C
According to CSA C 22.2 No. 210-05 FT1     Resistance to oil   in accordance with DIN EN 60811-2-1     According to DIN EN 50363-10-2   According to DIN EN 50363-10-2     Other resistance   UV resistant     Low adhesion   -40 °C 90 °C (cable, fixed installation)	Flame resistance	in accordance with EN 60332-1-2
Resistance to oil   in accordance with DIN EN 60811-2-1     According to DIN EN 50363-10-2   According to DIN EN 50363-10-2     Other resistance   UV resistant     Low adhesion   Ambient temperature (operation)		in acc. to UL 1581 VW1
According to DIN EN 50363-10-2   Other resistance UV resistant   Low adhesion -40 °C 90 °C (cable, fixed installation)		According to CSA C 22.2 No. 210-05 FT1
Other resistance UV resistant   Low adhesion -40 °C 90 °C (cable, fixed installation)	Resistance to oil	in accordance with DIN EN 60811-2-1
Low adhesion   Ambient temperature (operation) -40 °C 90 °C (cable, fixed installation)		According to DIN EN 50363-10-2
Ambient temperature (operation)   -40 °C 90 °C (cable, fixed installation)	Other resistance	UV resistant
		Low adhesion
-30 °C 90 °C (Cable, flexible installation)	Ambient temperature (operation)	-40 °C 90 °C (cable, fixed installation)
		-30 °C 90 °C (Cable, flexible installation)



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#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP65
	IP67 (without preloading, as additional test in accordance with IEC 60529)
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

#### ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060327

#### ETIM

	ETIM 9.0	EC001855
UNSPSC		
	UNSPSC 21.0	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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