

Halogen free installation cable 1 kV, HFAL-S



Application

Halogen free power cable for fixed installation indoors and outdoors and buried in the ground but not in water

Conductor	Stranded aluminium acc. to IEC 60228 class 2, Multi-core 10-25mm ² round and ≥ 50 mm ² sector shaped
Insulation	XLPE
Core marking	Colour code acc. to HD 308, 4-core: blue, brown, black, grey, 5-core: green/yellow, blue, brown, black, grey
Filler	Plastic tape or filler
Sheath	Light grey halogen free compound, UV resistant, meter marked and with rip cord
Ambient temp. at installation	Min -5°C
Conductor temperature	Max 90°C
Short circuit temperature	Max 250°C
Min. bending radius:	12xD
Rated voltage	0,6/1 kV
Test voltage	4 kV
CPR fire class	Eca 1G50 – 1G300 mm ² : DoP nr 1175444 4x10 – 25 mm ² , 5G10 – 25 mm ² : DoP nr 1175445 4x50 – 4x300 mm ² : DoP nr 1175446
Halogen free	EC 60754-1, -2
Smoke density	IEC 61034
Meets RoHS and REACH	
Approval	CE-marked acc. to Low Voltage Directive
Design	HD 604 S1

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Dimension • Weight

No of cond. X cross section	Nom. diameter mm	Cable weight kg/km	Delivery length m/dr.dia/dr.width	LM item number
1G50	14	307	1000 m/T1140/600	5733150691
1G70	17	389	1000 m/T1140/700	5733150701
1G95	18	480	1000 m/T1140/850	5733150714
1G120	20	578	1000 m/T1140/960	5733150727
1G150	22	697	1000 m/T1450/750	5733150730
1G240	28	1094	1000 m/T1600/1000	5733150743
1G300	31	1228	500 m/T1140/900	5733150646
4X10	17	290	500 m/T1160/900	5733152107
4X10	17	290	2000 m/T1160/900	5733152110
4X16	20	400	1500 m/T1200/600	5733150659
4X25	24	740	1000 m/T1200/750	5733150662
4X50	28	920	2250m/T2200/900	5733150523
4X50	28	920	1000m/T1600/1000	5733150358
4X70	32	1230	1700m/T2200/900	5733150536
4X95	36	1583	1350m/T2200/900	5733150549
4X95	36	1583	1000m/1800/1000	5733150374
4X120	40	1964	1200m/T2200/950	5733150552
4X150	44	2425	1000m/T2200/1150	5733150565
4X185	49	2980	850m/T2200/1150	5733150578
4X240	55	3768	600m/T2200/1150	5733150581
4X300	61	4620	480m/T2200/1150	5733150594
5G10	19	360	500 m/T850/650	5734101102
5G10	19	360	2000 m/T1300/850	5734101115
5G16	22	530	1000m/T1450/700	5733150675
5G25	26	750	1000m/T1600/750	5733150688

Current rating acc. to IEC 60364-5-52

No of cond. x cross section	Single-core cable, trefoil in free air, table B.52.13, method F, ambient temperature 30°C	Single-core cable, trefoil in the ground, table B.52.5, method D2, ambient temperature 20°C,
1G50	159A	117A
1G70	206A	144A
1G95	253A	172A
1G120	296A	197A
1G150	343A	220A
1G240	471A	290A
1G300	547A	329A



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Current rating acc. to IEC 60364-5-52

No of cond. x cross section	Multi-core cable in free air with three loaded conductors, table B.52.13, method E, ambient temperature 30°C	Multi-core cable in the ground with three loaded conductors, table B.52.5, method D2, ambient temperature 20°C
4X10	58 A	
4X16	77A	64A
4X25	97A	82A
4X50	146A	117A
4X70	187A	144A
4X95	227A	172A
4X120	263A	197A
4X150	304A	220A
4X185	347A	250A
4X240	409A	290A
4X300	471A	326A
5G10	58 A	
5G16	77A	64A
5G25	97A	82A