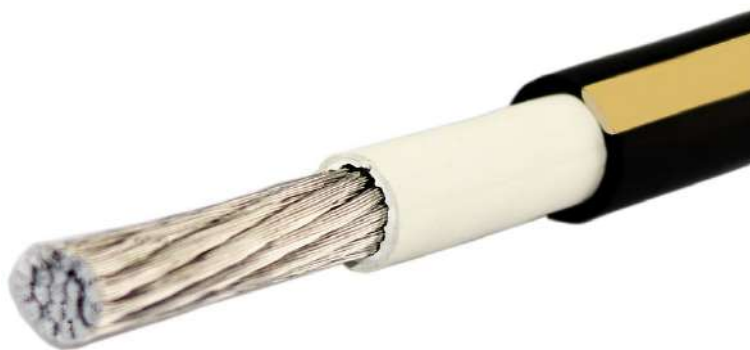


ALUKAFLEX AD8 0,6/1kV AC, 1,8 kV DC 1-CORE



Application

Solar installation on water or installations under water.

Conductor	Flexible bare aluminum conductor like IEC 60228 class 5
Separator	Foil around conductor
Conductor insulation	EPR rubber 90°C, EN 50363-1
Sheath	Black oil resistant rubber acc. to EN 50363-2-1
Ambient temp. at installation	Min -25°C
Conductor temperature	Max 90°C
Short circuit temperature	Max 250°C
Min. temp. during operation	-35°C fixed installed
Min. bending radius	6xD fixed installed
Rated voltage	0,6/1 kV AC, 1,8 kV DC
Test voltage	3,5 kV
Oil resistant	IEC 60811-404
UV resistant	ISO 4892
Flame retardant	IEC 60332-1
Allowed presence of water	AD8, 150 m
Meets RoHS and REACH	
Approval	CE acc.to Low Voltage Directive
Design	EN 50525-2-21 in applicable parts, IEC 60502-1

ALUKAFLEX AD8 0,6/1kV AC, 1,8 kV DC 1-CORE

Dimension • Weight

No of conductor x cross section	Outer diameter mm	Weight kg/km
1x10	10,6	136
1x16	11,8	171
1x25	13,8	235
1x35	16,0	307
1x50	18,5	412
1x70	21,0	529
1x95	23,0	659
1x120	25,2	795
1x150	28,4	982
1x185	30,5	1164
1x240	34,0	1450
1x300	37,5	1764
1x400	42,2	2241
1x500	46,1	2694

Current-carrying capacity acc. to IEC 60364-5-52, table B.52.13

No of conductor x cross section	Three loaded conductors in trefoil, method F, ambient temp 30°C	Three loaded conductors in flat, horizontal installation, spaced, method G, ambient temp. 30°C
1x10	58 A	-
1x16	77 A	-
1x25	103 A	138 A
1x35	129 A	172 A
1x50	159 A	210 A
1x70	206 A	271 A
1x95	253 A	332 A
1x120	296 A	387 A
1x150	343 A	448 A
1x185	395 A	515 A
1x240	471 A	611 A
1x300	547 A	708 A
1x400	663 A	856 A
1x500	770 A	991 A

Correction factor for current -carrying capacity at other temperatures than +30°C.

10°C: 1,15 15°C: 1,12 20°C: 1,08 25°C: 1,04 35°C: 0,96 40°C: 0,91 45°C: 0,87
50°C: 0,82 55°C: 0,76 60°C: 0,71 65°C: 0,65 70°C: 0,58 75°C: 0,50 80°C: 0,41



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Technical and electrical data

No of conductor x cross section	Maximum pulling force during installation	Maximum short circuit current 1s	Maximum conductor resistance at 20°C
1x10	300 N	940 A	3,08 Ohm/km
1x16	480 N	1500 A	1,91 ”
1x25	750 N	2350 A	1,20 ”
1x35	1050 N	3300 A	0,868 ”
1x50	1500 N	4700 A	0,641 ”
1x70	2100 N	6600 A	0,443 ”
1x95	2850 N	8900 A	0,320 ”
1x120	3600 N	11300 A	0,253 ”
1x150	4500 N	14100 A	0,206 ”
1x185	5550 N	17400 A	0,164 ”
1x240	7200 N	22600 A	0,125 ”
1x300	9000 N	28200 A	0,100 ”
1x400	12000 N	37600 A	0,0778 ”
1x500	15000 N	47000 A	0,0605 ”