



ALUKAFLEX AD8 – EXCELLENT AND FLEXIBLE ALUMINUM CABLE FOR APPLICATIONS IN WATER

With Alukaflex AD8 DanCables add yet another high-quality aluminum cable to the product range. Alukaflex AD8 is designed especially for floating solar parks or other applications in water. The cable can be submerged in water up to 150 meters. This makes Alukaflex AD8 very versatile. The conductor in Alukaflex AD8 is made of flexible high-quality aluminum similar to IEC 60228 class 5. Voltage range is 0,6/1 kV AC and 1,5 kV DC. Alukaflex AD8 has an excellent bending radius of $6 \times D$ in a fixed installation.

Alukaflex AD8 is available in several variants. Single-core conductor in cross sections from 10 to 500 mm² and multi-core with 4 or 5 conductors with cross sections from 6 to 150 mm².

Like other Alukaflex cables with a flexible aluminum conductor AD8 offers clear advantages with a weight reduction of up to 40% and a lower price depending on length when compared to similar copper cables.

YOUR BENEFITS:

- ✓ Lower price than matching copper cables
- ✓ Weight reduction of up to 40% compared to similar cables
- ✓ Allowed presence of water: 150 meter
- ✓ Material properties
 - Outer sheath of black oil resistant rubber acc. to EN 50363-2-1
 - UV resistant
 - Flame retardant
 - Conductor temperature of max. 90 °C

Learn more at www.dancables.com

TYPICAL APPLICATION AREAS:



Alukaflex AD8 is suitable for solar applications on water or general installations under water. Examples could be fish farms, water supply or industrial sewage treatment plants.

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 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

Dimension - Weight

No of conductor x cross section	Diameter mm	Cable Weight kg/km
4G6	18,7	428
4G10	23,6	682
4G16	26,5	864
4G25	31,9	1250
4G35	36,8	1630
4G50	42,8	2206
4G70	48,4	2837
4G95	53,8	3587
4G120	58,4	4243
4G150	66,4	5383
5G6	20,8	529
5G10	26,0	828
5G16	29,4	1064
5G25	35,3	1534
5G35	40,5	1978
5G50	47,5	2724
5G70	53,9	3524
5G95	59,5	4406
5G120	64,5	5186
5G150	73,3	6574

Current carrying capacity acc, to IEC 60364-5-52, table B.52,13

No of conductor x cross section	Multi-core cable with three loaded conductors in free air, method E, ambient temperature 30° C
4G6	42 A
4G10	58 A
4G16	77 A
4G25	97 A
4G35	120 A
4G50	146 A
4G70	187 A
4G95	227 A
4G120	263 A
4G150	304 A
5G6	42 A
5G10	58 A
5G16	77 A
5G25	97 A
5G35	120 A
5G50	146 A
5G70	187 A
5G95	227 A
5G120	263 A
5G150	304 A