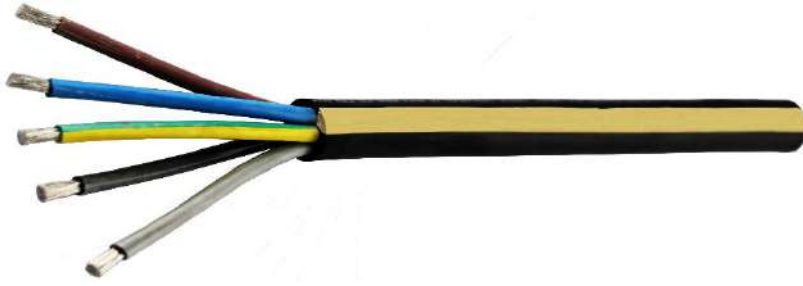


# ALUKAFLEX AD8 450/750 V 4 - AND 5 - CORE



## Application

Solar installation on water or installations under water.

Conductor	Flexible aluminum conductor principally like IEC 60228 class 5
Separator	Foil around conductor strand
Conductor insulation	EPR rubber 90°C, EN 50363-1
Core marking	Colour code acc. to HD 308
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	450/750 V
Test voltage	2,5 kV
Oil resistant	IEC 60811-404
UV resistant	ISO 4892
Flame retardant	IEC 60332-1
Allowed presence of water	AD8, 150 m
Approval	CE acc.to Low Voltage Directive
Design	EN 50525-2-21 in applicable parts



*Dimension - weight*

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



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

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



# ALUKAFLEX AD8 450/750 V 4 - AND 5 - CORE

## *Technical and electrical data*

<b>No of conduct x cross section</b>	<b>Maximum pulling force during</b>	<b>Maximum short circuit current 1s</b>	<b>Maximum conductor resistance at 20°C</b>
<b>4G6</b>	720 N	564 A	4,61 Ohm/km
<b>4G10</b>	1200 N	940 A	3,08 "
<b>4G16</b>	1920 N	1500 A	1,91 "
<b>4G25</b>	3000 N	2350 A	1,20 "
<b>4G35</b>	4200 N	3300 A	0,868 "
<b>4G50</b>	6000 N	4700 A	0,641 "
<b>4G70</b>	8400 N	6600 A	0,443 "
<b>4G95</b>	11400 N	8900 A	0,320 "
<b>4G120</b>	14400 N	11300 A	0,253 "
<b>4G150</b>	18000 N	14100 A	0,206 "
<b>5G6</b>	900 N	564 A	4,61 "
<b>5G10</b>	1500 N	940 A	3,08 "
<b>5G16</b>	2400 N	1500 A	1,91 "
<b>5G25</b>	3750 N	2350 A	1,20 "
<b>5G35</b>	5250 N	3300 A	0,868 "
<b>5G50</b>	7500 N	4700 A	0,641 "
<b>5G70</b>	10500 N	6600 A	0,443 "
<b>5G95</b>	14250 N	8900 A	0,320 "
<b>5G120</b>	18000 N	11300 A	0,253 "
<b>5G150</b>	22500 N	14100 A	0,206 "

