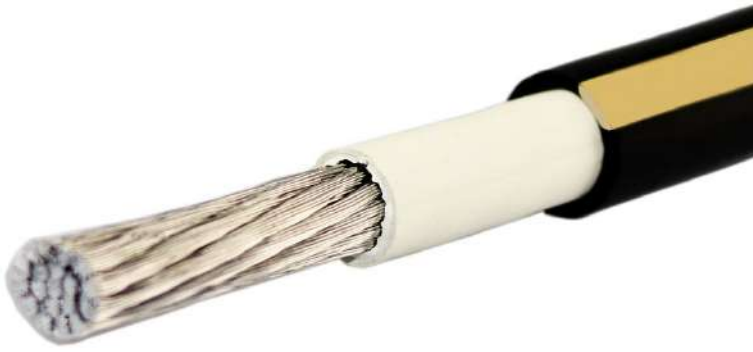


# ALUKAFLEX 0,6/1kV 1-CORE



## Application

Temporary installations on construction sites and similar.

Conductor	Flexible aluminum conductor principally like IEC 60228 class 5
Separator	Foil around conductor
Conductor insulation	EPR rubber 90°C, EN 50363-1
Sheath	Black oil resistant CPE rubber or equivalent 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
Test voltage	3,5 kV
Oil resistant	IEC 60811-404
UV resistant	ISO 4892
Flame retardant	IEC 60332-1
CPR fireclass	Eca, 1x10 – 1x500 mm <sup>2</sup> ; DoP nr 1175912
Meets RoHS and REACH	
Approval	CE acc.to Low Voltage Directive DEKRA Certified Quality, certificate nr 71-100868 and certificate 71-105381
Design	EN 50525-2-21 in applicable parts, IEC 60502-1

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## *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*

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