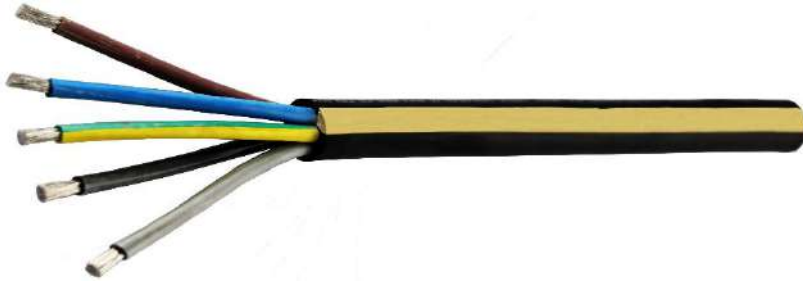


ALUKAFLEX 450/750 V 4 - AND 5 - CORE



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
Core marking	Colour code acc. to HD 308
Sheath	Black oil resistant CPE rubber or equivalent acc. to EN 50363-2-1. Introducing sheath with a white stripe.
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
CPR fireclass	Eca, 4G6 – 4G300, 5G6 – 5G300 mm ² ; DoP nr 1175913
Meets RoHS and REACH	
Approval	CE acc.to Low Voltage Directive DEKRA Certified Quality, certificate nr 71-100868
Design	EN 50525-2-21 in applicable parts

ALUKAFLEX 450/750 V 4 - AND 5 - CORE

Dimension - weight

No of conductors 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
4G185	71,6	6373
4G240	80,9	8158
4G300	90,2	10145
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
5G185	79,2	7816
5G240	89,5	9995
5G300	99,7	12418



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
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
4G185	347 A
4G240	409 A
4G300	471 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
5G185	347 A
5G240	409 A
5G300	471 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 450/750 V 4 - AND 5 - CORE

Technical and electrical data

No of conduct x cross section	Maximum pulling force during	Maximum short circuit current 1s	Maximum conductor resistance at 20°C
4G6	720 N	564 A	4,61 Ohm/km
4G10	1200 N	940 A	3,08 "
4G16	1920 N	1500 A	1,91 "
4G25	3000 N	2350 A	1,20 "
4G35	4200 N	3300 A	0,868 "
4G50	6000 N	4700 A	0,641 "
4G70	8400 N	6600 A	0,443 "
4G95	11400 N	8900 A	0,320 "
4G120	14400 N	11300 A	0,253 "
4G150	18000 N	14100 A	0,206 "
4G185	22200 N	17400 A	0,164 "
4G240	28800 N	22600 A	0,125 "
4G300	36000 N	28200 A	0,100 "
5G6	900 N	564 A	4,61 "
5G10	1500 N	940 A	3,08 "
5G16	2400 N	1500 A	1,91 "
5G25	3750 N	2350 A	1,20 "
5G35	5250 N	3300 A	0,868 "
5G50	7500 N	4700 A	0,641 "
5G70	10500 N	6600 A	0,443 "
5G95	14250 N	8900 A	0,320 "
5G120	18000 N	11300 A	0,253 "
5G150	22500 N	14100 A	0,206 "
5G185	27750 N	17400 A	0,164 "
5G240	36000 N	22600 A	0,125 "
5G300	45000 N	28200 A	0,100 "

