



Application

Fixed installed in 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, IEC 50363-1
Conductor identification	Farvekode iht. HD 308
Sheath	Yellow thermoplastic polyurethane
Ambient temp. at installation	Min -40°C
Conductor temperature	Max 90°C
Short circuit temperature	Max 250°C
Operating temperature	Min -40°C
Min. bending radius	6xD fixed installed
Rated voltage	450/750 V
Test voltage	2,5 kV
Oil resistant	IEC 60811-2-1
UV resistant	ISO 4892-82
Flame retardant	IEC 60332-1
Halogenfree	IEC 60754
CPR fireclass	Eca, 4G6-4G300, 5G6-5G300, DoP nr 1175913
Meets RoHS and REACH	
Approval	CE acc.to Low Voltage Directive
Design	EN 50525-2-21 in applicable parts

Dimension • Weight

No of conductor x cross section	Outer diameter mm	Weight kg/km
4G6	16,8	311
4G10	22,3	533
4G16	24,4	668
4G25	29,4	972
4G35	34,4	1285
4G50	40,1	1755
4G70	44,7	2240
4G95	50,5	2900
4G120	55,2	3450
4G150	62	4250
4G185	67	5250
4G240	76	6700
4G300	87	8500
5G6	18,6	382
5G10	24,6	648
5G16	27,1	825
5G25	32,6	1198
5G35	37,9	1567
5G50	44,4	2158
5G70	50,7	2775
5G95	56,3	3475
5G120	61,0	4130
5G150	69	5180
5G185	75	6250
5G240	85	8050
5G300	95	10.000

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
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	

ALUKAFLEX PUR 450/750V HALOGENFREE 4- and 5- Conductor

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

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
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 "

ALUKAFLEX PUR 450/750V HALOGENFREE 4- and 5- Conductor

5G185	27750 N	17400 A	0,164 ”
5G240	36000 N	22600 A	0,125 ”
5G300	45000 N	28200 A	0,100 ”