

AXMK 0,6/1kV

SFS 4879, HD 603-5D, IEC 60502-1



XLPE insulated and PVC sheathed power cables



CONSTRUCTION

Conductors:	Annealed aluminium: 16 mm ² round solid class 1 or class 2 stranded and compacted, Other cross-sections: round or sector-shaped, class 2 stranded and compacted.
Insulation:	XLPE compound
Inner covering:	Lapped of polyester tape or filling compound (round conductors)
Sheath:	PVC compound
Colour of sheath:	colour black
Core identification:	3-core: Green-yellow, blue, brown 4-core: Green-yellow, brown, black, grey 5-core: Green-yellow, blue, brown, black, grey

CHARACTERISTIC

Maximum conductor operating temperature:	+90°C
Lowest ambient temperature for fixed installation:	-15°C
Lowest installation temperature:	-5°C
Maximum short-circuit conductor temperature:	+250°C
Minimum bending radius:	12D, D – overall diameter

APPLICATIONS

XLPE insulated and PVC sheathed power cables for the supply of electrical energy.
Special for installations in the open air and underground.

Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request
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APPROVALS

SGS FIMKO

FIRE PERFORMANCE

Flame retardant:	EN 60332-1-2
CPR – class reaction to fire (acc EN 50575):	Eca

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Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm ²	mm	kg/km	Ω/km
1x35RM	12,6	206	0,868
1x50RM	14,1	256	0,641
1x70RM	15,7	334	0,443
1x95RM	17,5	425	0,32
1x120RM	18,9	509	0,253
1x150RM	21	620	0,206
1x185RM	23	752	0,164
1x240RM	25,2	938	0,125
1x300RM	27,7	1126	0,1
1x400RM	31,1	1435	0,0778
1x500RM	34,5	1801	0,0605
1x630RM	38,7	2269	0,0469
3x16RE*	17,1	395	1,91
4x16SE	17,5	353	1,91
4x16RE	18,6	461	1,91
4x25SM	20,6	526	1,20
4x35SM	23,1	665	0,868
4x50SM	26,1	862	0,641
4x70SM	30,2	1176	0,443
4x95SM	33,8	1535	0,320
4x120SM	37,9	1913	0,253
4x150SM	42	2338	0,206
4x185SM	46,6	2905	0,164
4x240SM	52,3	3705	0,125
4x300SM	57,3	4535	0,100
5x16RE*	19,9	534	1,91
5x25RE*	25,5	879	1,2
5x35RE*	28,2	1097	0,868

*based on norm

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Current ratings*

Operating temperature at conductor 90°C; ambient air temperature 30°C, ground temperature 20°C

Installation	1)				1)						
Number of loaded cores	1	3	3	3	1	3	3	3			
	laying in ground					laying in air					
Cross-section, mm ²	Current ratings in Ampere (A)										
1) Rated current for direct current systems with a far-distanced return conductor.											
10	-	-	-	-	-	-	-	-			
16	-	-	-	-	-	-	-	-			
25	177	112	114	136	102	106					
35	212	135	136	166	126	130					
50	252	158	162	205	149	161					
70	310	196	199	260	191	204					
95	372	234	238	321	234	252					
120	425	268	272	376	273	295					
150	476	300	305	431	311	339					
185	541	342	347	501	360	395					
240	531	398	404	600	427	472					
300	716	457	457	696	507	547					
400	825	529	525	821	600	643					
500	952	609	601	971	695	754					
630	1102	-	687	1151	-	882					

1) Rated current for direct current systems with a far-distanced return conductor.

The values are referred to the following basic conditions:

Laying in ground	Laying in air
Ground temperature at installation	20°C
Load factor:	0,7
Soil-thermal resistivity of moist area:	1,0 K m/W
Soil-thermal resistivity of dry area:	2,5 K m/W
Laying depth:	0,7 m
Ambient temperature:	30°C
Load factor:	1,0
Arrangement: free in air, protection against direct solar radiation, no external heat sources, unrestricted dissipation	

Correction factors for various ambient air temperatures

Ambient temperature, °C)	10	15	20	25	30	35	40	45	50
Rating factor	1,22	1,17	1,12	1,06	1,00	0,94	0,87	0,79	0,71

The values are referred to the following basic conditions:

Ambient temperature:	25°C
Ground temperature at installation depth:	20°C
Load factor:	0,7
Soil-thermal resistivity of area:	1,0 K m/W
Laying depth:	0,7 m

* As defined in DIN VDE 0276-603, DIN VDE 0276-627, HD 603 S1, HD 627 S1.

Conversion factors for deviating ambient temperature defined in DIN VDE 0298 part 4.

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