



## Power Cable

### CONSTRUCTION **SFS 4879; HD 603 S1:1994/A3:2007 Part 5 Section D; IEC 60502-1**

Conductor:	16 circular stranded or solid aluminium, IEC 60228 class 1 or 2 25 mm <sup>2</sup> circular stranded aluminium, IEC 60228 class 2 35 ...300 mm <sup>2</sup> sector shaped, stranded aluminium, IEC 60228 class 2
Insulation:	UV-resistant XLPE-compound
Core identification:	3x Green/yellow, blue, black with brown line 4x Green/yellow, black with brown line, black, black with grey line 5x Green/yellow, blue, black with brown line, black, black with grey line
Inner covering:	Lapped plastic tapes applied over laid-up cores as a binder
Sheath:	Lead free, UV-resistant PVC, colour black
Sheath marking:	Example: <i>REKA (FI) AXMK 4x120 S 0.6/1 kV REKA year-week meter marking</i>

### MECHANICAL DETAILS

Minimum bending radii:	During handling and installation	12 x D
	In case of only one smooth bending to final position	8 x D
Maximum pulling forces:	A= total area of conductors	
	pulling by the conductor	A x 15 N/mm <sup>2</sup>
	pulling by pulling-stocking on the outer sheath	A x 15 N/mm <sup>2</sup>
	However, pulling force of conductors must not exceed or by pulling stocking	20 000 N 8 500 N
Temperature limits:	Max. conductor temperature	+90 °C
	Max. short circuit temperature (duration not exceeding 5 sec.)	+250 °C
	Min. temperature during handling and installation	-20 °C
	Min. temperature during transport	-40 °C
Applications:	Cables may be used for fixed installations, indoors and outdoors. Direct burial in soil is allowed, as long as the relevant national rules of installations are followed. Can be used in direct sunlight. Self-extinguishing, no after-burning.	

## FIRE PERFORMANCE

SS 424 14 75  
IEC 60332-1

EN 60332-1-2

Fire class F2  
Self extinguishing and flame retardant

Reka code	Size [mm <sup>2</sup> ]	Conductor resistance DC +20 °C [Ω/km]	*) Current in soil +65 °C [A]	*) Current in air +90 °C [A]	Overall diameter approx. [mm]	Weight approx. [kg/km]
---	3x16 RE	1,91	78	80	18	310
1702652	3x35 SM	0,868	125	125	22	520
1116348	4x16 RM	1,91	78	80	19	380
1701199	4x25 RM	1,20	100	101	22	520
1116332	4x35 SM	0,868	125	125	24	650
1116333	4x50 SM	0,641	150	152	28	850
1116334	4x70 SM	0,443	185	194	32	1180
1116335	4x95 SM	0,320	220	236	35	1520
1116336	4x120 SM	0,253	255	274	40	1900
1116337	4x150 SM	0,206	280	316	44	2330
1116358	4x185 SM	0,164	330	361	48	2880
1116359	4x240 SM	0,125	375	425	55	3700
1116360	4x300 SM	0,100	430	490	60	4580
1116340	5x16 RM	1,91	78	80	23	490
1116342	5x35 RM	0,868	125	125	30	870

\*) Current carrying capacities are according to SFS 6000-5-52,  
with following basic assumptions:

Ambient temperatures are in air +25 °C and in soil +15 °C. Soil thermal resistivity is 1,0 K m/W.  
Correction factors must be taken into account separately where they are needed.