



Fire resistant EMC copper power cable

CONSTRUCTION

SFS 5547

Conductor:	1,5 - 6 mm ² circular solid copper, IEC 60228 class 1 10 - 25 mm ² circular stranded copper, IEC 60228 class 2 * 35 - 240 mm ² sector shaped, stranded copper, IEC 60228 class 2
Conductor screen:	Flame resistant tape layer(s)
Insulation:	Extruded cross-linked polyethylene
Identification:	Blue, brown, black, grey
EMC screen:	Copper tape in contact with concentric conductor
Concentric conductor:	Copper wires
Sheath:	Extruded halogen free and UV-resistant compound. Colour red
Sheath marking:	Example: (FI) FRHF-EMC 4x70/35 F4A 0,6/1 kV REKA year-week-meter marking

MECHANICAL DETAILS

Minimum bending radii:	During handling and installation	12xD
	In case of only one smooth bending to final position	8xD
Maximum pulling forces:	(A= total area of conductors)	A x 50 N/mm ²
	(pulling by pulling-stocking)	8 000N
	Pulling force must not exceed	20 000 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 -	15 °C
	Min. temperature during transport	- 40 °C

Applications: Cables may be used for fixed installations, indoor, outdoor and in soil. Where needed halogen free, non corrosive gases and low smoke density cables. Self extinguishing, no after-burning. Suitable for connection between frequency converter and motor on variable speed drive systems. Cable gives an excellent screen against electromagnetic radiation from the cable.

FIRE PERFORMANCE

SS 424 14 75
IEC 60331-21,-1,-2
IEC 60332-3-22

EN 50200, EN 50362
EN 60332-3-22

IEC 60754
IEC 61034

EN 50267
EN 61034-2
EN 50289-1-6

Fire class F4A
Fire resistant
Self extinguishing and flame retardant even,
when the cables are installed in bunches
Halogen-free, non corrosive
Low smoke density
Electromagnetic performance

REKA code	Size mm ²	Phase conductor resistance d.c.+20 °C max. ohm/km	Concentric conductor resistance DC + 20 °C max. ohm/km	EMC-screen diameter approx. mm	Current carrying capacity three loaded + 90 °C conductor free in + 25 °C air	Current carrying capacity three loaded + 65 °C conductor in + 15 °C soil 1,0 K m/W	Overall diameter approx. mm	Weight approx. kg/km
1146660	4x1,5/1,5	12,1	12,1	10,9	24	26	14,5	290
1146661	4x2,5/2,5	7,41	7,41	11,9	33	35	16	360
1146663	4x6/6	3,08	3,08	15,4	56	57	19	600
1146664	4x10/10	1,83	1,83	18,4	78	77	22	900
1146676	4x16/16	1,15	1,15	25,4	104	100	29	1300
1146666	4x25/16	0,727	1,15	26,4	132	130	30	1800
* 1146667	4x35/16	0,524	1,15	27	164	160	30	2000
* 1146668	4x50/25	0,387	0,727	30,5	200	190	35	2700
* 1146669	4x70/35	0,268	0,524	34	256	240	38	2950
* 1146670	4x95/50	0,193	0,387	37,6	310	285	42	4800
* 1146671	4x120/70	0,153	0,268	40	370	325	47	6000
* 1146672	4x150/70	0,124	0,268	45	415	370	50	7250
* 1146673	4x185/95	0,0991	0,193	52,6	474	420	58	9300
* 1146674	4x240/120	0,0754	0,153	57,2	560	480	63	11900

Current carrying capacity according to SFS 6000-5-52

NOTE ! Correction factor values for current carrying capacity must take account separately case by case.