FRHF / BFXI

0,6/1 (1,2) kV

Fire resistant installation cable

CONSTRUCTION	**HD 604 S1:1994/A3:2005 5-D; IEC 60502-1:2004 Applicable parts**
Conductor:	1,5 - 4 mm^2 circular solid copper, EN/IEC 60228 class 1 6 - 50 mm^2 circular stranded copper, EN/IEC 60228 class 2
Conductor screen:	Flame resistant tape layer(s)
Insulation:	Extruded cross-linked polyethylene
Core identification:	2x: Blue, brown 3x: Brown, black, grey 3G: Green/yellow, blue, brown 4G: Green/yellow, blue, brown, black (1,5 and 2,5 mm^2) 4G: Green/yellow, brown, black, grey (4mm^2 and above) 5G: Green/yellow, blue, brown, black, grey
Inner covering:	Extruded halogen free filling compound
Sheath:	Extruded halogen free and UV-resistant compound. Colour orange

MECHANICAL DETAILS

Minimum bending radii:	During handling and installation In case of only one smooth bending to final position	12 x D 8 x D
Maximum pulling forces:	(A= total area of conductors)	A x 50 N/mm^2
Temperature limits:	Max. conductor temperature during operation Max. conductor temperature during short circuit (duration not exceeding 5 seconds)	90 °C 250 °C
	Min. temperature during handling and installation Min. temperature during transportand operation	-15 °C -40 °C

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Applications:

Cables may be used for fixed installations, indoor, outdoor.
Where needed halogen free, non-corrosive gases and low smoke density cables.
Self-extinguishing, no after-burning.

FIRE PERFORMANCE

IEC 60331-21		Fire resistant, 180 min.
IEC 60331-1, -2	EN 50200, EN 50362	Fire resistant with shock, 90 min.
IEC 60332-3-22	EN 60332-3-22	Flame retardant in a bunch, category A
IEC 60754	EN 60754	Halogen free, non corrosive
IEC 61034	EN 61034	Low smoke density

REKA code	Size [mm²]	Phase conductor resistance DC 20 °C [Ω/km]	Insulation thickness [mm]	Oversheat thickness [mm]	Overall diameter approx. [mm]	Weight approx. [kg/km]
1146542	2x1,5 N	12,1	0,7	1,5	12	170
1146543	2x2,5 N	7,41	0,7	1,5	13	210
1146544	2x4 N	4,61	0,7	1,5	14	260
1146545	2x6 N	3,08	0,7	1,5	16	350
1146546	3x1,5*	12,1	0,7	1,5	13	190
1146547	3G1,5	12,1	0,7	1,5	13	190
1146548	3G2,5	7,41	0,7	1,5	14	230
1146549	3G4	4,61	0,7	1,5	15	300
1146550	3G6	3,08	0,7	1,5	18	410
1146551	3G10	1,83	0,7	1,5	19	560
1146552	3G16	1,15	0,7	1,5	22	770
1146553	3G25	0,727	0,9	1,6	28	1540
1146554	3G35	0,524	0,9	1,7	29	1560
1146555	3G50	0,387	1,0	1,8	31	2000
1146556	3G70	0,268	1,1	2,0	36	2730
1146558	4G1,5	12,1	0,7	1,5	14	220
1146559	4G4,2	7,41	0,7	1,5	15	280
1146560	4G4	4,61	0,7	1,5	16	360
1146561	4G6	3,08	0,7	1,5	19	490
1146562	4G10	1,83	0,7	1,5	21	690

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1146563	4G16	1,15	0,7	1,5	23	960
1146564	4G25	0,727	0,9	1,7	29	1970
1146565	4G35	0,524	0,9	1,7	30	2390
1146566	4G50	0,387	1,0	1,9	34	3190
1146567	4G70	0,268	1,1	2,1	39	3490
1146569	5G1,5	12,1	0,7	1,5	15	250
1146570	5G2,5	7,41	0,7	1,5	16	320
1146571	5G4	4,61	0,7	1,5	18	430
1146572	5G6	3,08	0,7	1,5	20	580
1146573	5G10	1,83	0,7	1,5	23	820
1146574	5G16	1,15	0,7	1,6	26	1170
1146575	5G25	0,727	0,9	1,7	32	1860
1146576	5G35	0,524	0,9	1,8	33	2330
1146577	5G50	0,387	1,0	2,0	38	3150
1146578	5G70	0,268	1,1	2,1	43	4260