

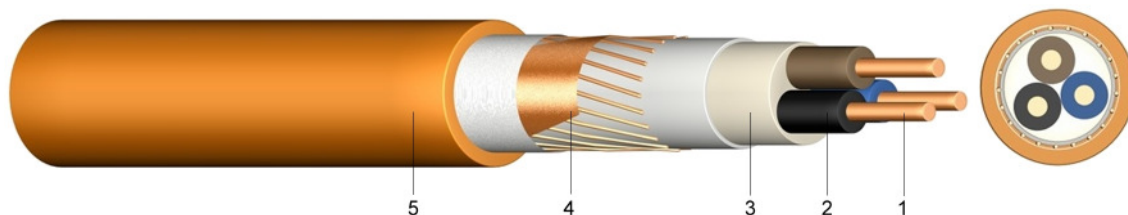
Datasheet (N)HXCH FE180/E30 KERAM

Version 1/2009

Halogen-Free Cable with Concentric Conductor and Circuit Integrity of 30 Minutes

Application:

Safety cables are used in all locations where a high degree of protection against fire and fire-damage has to be provided for human life and equipment and are, therefore, subject to high security requirements. These cables may be used indoors and outdoors. They may not be installed directly into the ground and into the water. Circuit integrity of 30 minutes and insulation integrity of 180 minutes.



Construction:

- 1 solid or stranded bare copper
- 2 core insulation of halogen-free, similar ceramic polymer compound (HXI 1)
- 3 halogen-free inner sheath
- 4 concentric conductor formed by copper wires with counter helix of copper tape
- 5 outer sheath of halogen-free polymer (HM 4), orange

Information:

These cables comply the conditions of the tests to insulation integrity according to DIN VDE 0472-814/ 8.83 about 180 min. and IEC Public. 331 first edition 1970 to circuit integrity about 30 min. to DIN 4102-12 according to VDE 0100-710 and 0100-718.

According to:

adapted to DIN VDE 0266
DIN VDE 0276-604
DIN VDE 0472-814
DIN EN 60228 class 1 and 2 (construction)
HD 308 S2 (core identification)

Technical data:

Nominal voltage U_0/U		[V]	600 / 1000 Volt
Test voltage		[V] _{AC}	4000
Temperature range	in motion		-5 °C till +90 °C
Operating temperature	short circuit	°C	250
Short circuit time	max.	[sec]	5
Bending radius	in motion	x diameter	12
Flammability	standard		EN 50266-2-4 IEC 60332-3 Kat.C

Number of cores and nominal cross section mm ²	Copper figure kg/km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
2 x 1,5 RE/1,5	54	10,8	0,40	133
2 x 2,5 RE/2,5	83	12,0	0,46	171
3 x 1,5 RE/1,5	73	11,2	0,50	166
3 x 2,5 RE/2,5	113	12,5	0,58	219
3 x 4 RE/4	168	13,4	0,66	291

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Number of cores and nominal cross section mm ²	Copper figure kg/km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
3 x 6 RE/ 6	250	15,3	0,78	393
3 x 10 RE/ 10	425	17,0	0,92	576
3 x 16 RE/ 16	670	19,6	1,15	860
3 x 25 RM/ 16	1.045	23,0	1,57	1.194
3 x 35 RM/ 16	1.460	25,6	1,86	1.521
3 x 50 RM/ 25	2.083	28,8	2,28	2.037
3 x 70 RM/ 35	2.913	33,7	3,05	2.841
3 x 95 RM/ 50	3.949	38,2	3,73	3.840
3 x 120 RM/ 70	4.985	42,3	4,50	4.869
3 x 150 RM/ 70	5.313	46,6	5,63	5.844
3 x 185 RM/ 95	6.649	52,3	6,99	7.400
3 x 240 RM/120	8.585	59,7	9,08	9.661
4 x 1,5 RE/ 1,5	88	11,9	0,55	192
4 x 2,5 RE/ 2,5	138	13,3	0,64	254
4 x 4 RE/ 4	208	14,3	0,71	341
4 x 6 RE/ 6	309	16,3	0,85	471
4 x 10 RE/ 10	525	18,2	1,00	685
4 x 16 RM/ 16	829	21,1	1,24	1.035
4 x 25 RM/ 16	1.190	25,0	1,71	1.465
4 x 35 RM/ 16	1.590	27,8	2,03	1.886
4 x 50 RM/ 25	2.295	31,6	2,52	2.539
4 x 70 RM/ 35	3.210	37,0	3,39	3.556
4 x 95 RM/ 50	4.383	41,9	4,12	4.816
4 x 120 RM/ 70	5.613	46,6	5,05	6.101
4 x 150 RM/ 70	6.813	51,1	6,13	7.323
4 x 185 RM/ 95	8.499	57,6	7,73	9.285
4 x 240 RM/120	10.985	65,8	10,02	12.141
5 x 2,5 RE/ 2,5	315	14,3	0,65	283
5 x 6 RE/ 6	490	17,5	0,84	530
7 x 1,5 RE/ 2,5	139	14,2	0,69	274
12 x 1,5 RE/ 2,5	214	17,4	0,95	399
24 x 1,5 RE/ 6	430	23,7	1,55	744
30 x 1,5 RE/ 6	520	24,8	1,77	873
7 x 2,5 RE/ 2,5	208	15,4	0,77	348
12 x 2,5 RE/ 4	348	19,2	1,09	556
24 x 2,5 RE/ 10	725	26,1	1,76	1.027
30 x 2,5 RE / 10	875	27,4	2,02	1.216

More types on enquiry