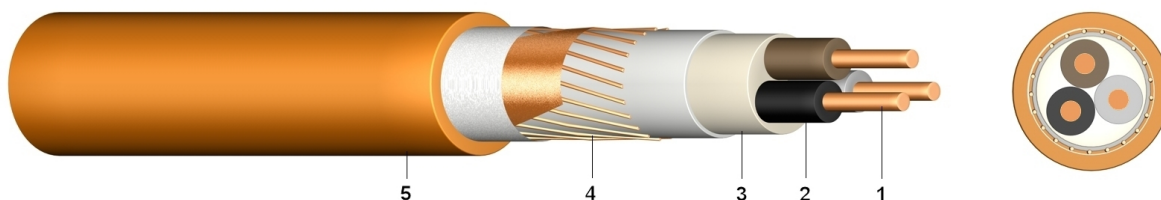


**(N)HXCH  
FE180/E30  
KERAM**

**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. Functional 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 fulfil 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.

**Standards:**

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 <sub>0</sub> /U	[V]	600 / 1000 Volt
Test voltage	[V] <sub>Ac</sub>	4000
Temperature range	in motion	-5°C till +90°C
Operating temperature	short circuit	250
Short circuit time	max.	[sec]
Bending radius	in motion	5
Flammability	standard	12 x diameter EN 50266-2-4 IEC 60332-3 Kat.C

Number of cores and nominal cross section mm <sup>2</sup>	Copper figure kg/km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
2 x 1,5 RE/1,5	51,8	10,8	0,40	133
2 x 2,5 RE/2,5	79,7	12,0	0,46	171
3 x 1,5 RE/1,5	70,1	11,2	0,50	166
3 x 2,5 RE/2,5	108,5	12,5	0,58	219
3 x 4 RE/4	161,3	13,4	0,66	291

Number of cores and nominal cross section mm <sup>2</sup>	Copper figure kg/km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
3 x 6 RE/ 6	240,0	15,3	0,78	393
3 x 10 RE/ 10	408,0	17,0	0,92	576
3 x 16 RE/ 16	643,2	19,6	1,15	860
3 x 25 RM/ 16	1.003,2	23,0	1,57	1.194
3 x 35 RM/ 16	1.401,6	25,6	1,86	1.521
3 x 50 RM/ 25	1.999,7	28,8	2,28	2.037
3 x 70 RM/ 35	2.796,5	33,7	3,05	2.841
3 x 95 RM/ 50	3.791,0	38,2	3,73	3.840
3 x 120 RM/ 70	4.785,6	42,3	4,50	4.869
3 x 150 RM/ 70	5.100,5	46,6	5,63	5.844
3 x 185 RM/ 95	6.383,0	52,3	6,99	7.400
3 x 240 RM/120	8.241,6	59,7	9,08	9.661
4 x 1,5 RE/ 1,5	84,5	11,9	0,55	192
4 x 2,5 RE/ 2,5	132,5	13,3	0,64	254
4 x 4 RE/ 4	199,7	14,3	0,71	341
4 x 6 RE/ 6	296,6	16,3	0,85	471
4 x 10 RE/ 10	504,0	18,2	1,00	685
4 x 16 RM/ 16	795,8	21,1	1,24	1.035
4 x 25 RM/ 16	1.142,4	25,0	1,71	1.465
4 x 35 RM/ 16	1.526,4	27,8	2,03	1.886
4 x 50 RM/ 25	2.203,2	31,6	2,52	2.539
4 x 70 RM/ 35	3.081,6	37,0	3,39	3.556
4 x 95 RM/ 50	4.207,7	41,9	4,12	4.816
4 x 120 RM/ 70	5.388,5	46,6	5,05	6.101
4 x 150 RM/ 70	6.540,5	51,1	6,13	7.323
4 x 185 RM/ 95	8.159,0	57,6	7,73	9.285
4 x 240 RM/120	10.545,6	65,8	10,02	12.141
5 x 2,5 RE/ 2,5	302,4	14,3	0,65	283
5 x 6 RE/ 6	470,4	17,5	0,84	530
7 x 1,5 RE/ 2,5	133,4	14,2	0,69	274
12 x 1,5 RE/ 2,5	205,4	17,4	0,95	399
24 x 1,5 RE/ 6	412,8	23,7	1,55	744
30 x 1,5 RE/ 6	499,2	24,8	1,77	873
7 x 2,5 RE/ 2,5	199,7	15,4	0,77	348
12 x 2,5 RE/ 4	334,1	19,2	1,09	556
24 x 2,5 RE/ 10	696,0	26,1	1,76	1.027
30 x 2,5 RE / 10	840,0	27,4	2,02	1.216

More types on enquiry