

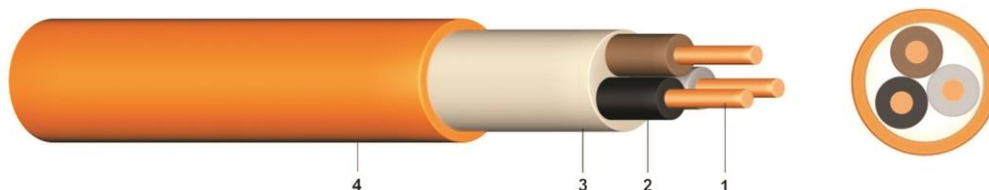


(N)HXH FE180/E30 KERAM

Halogen-Free Cable with 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. This cable conforms with Safety Class II standards. 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 outer sheath of halogen-free polymere (HM4), orange

Information:

These cables fulfill 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 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°C
Short circuit time	max.	[sec]	5
Bending radius	single core style	x diameter	15
	multi core style	x diameter	12
Flammability	standard		EN 50266-2-4 IEC 60332-3 Kat.C

Number of cores and nominal cross section mm ²	from stock	from stock	Copper figure kg/km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
	J	O				
1 x 16 RM		○	160	9,0	0,30	207
1 x 25 RM		○	250	10,6	0,40	307
1 x 35 RM		●	350	11,8	0,46	407
1 x 50 RM	○	○	500	13,1	0,54	535
1 x 70 RM	○	○	700	15,0	0,66	744
1 x 95 RM		○	950	17,0	0,80	1.009



Number of cores and nominal cross section mm ²	from stock		Copper figure kg/km	Overall diameter appr. mm	Calorific potential kWh/m	Weight appr. kg/km
	J	O				
1 x 120 RM		●	1.200	18,6	0,91	1.248
1 x 150 RM		○	1.500	20,6	1,14	1.538
1 x 185 RM		○	1.850	22,8	1,35	1.917
1 x 240 RM		○	2.400	26,3	1,56	2.521
1 x 300 RM		○	3.000	30,0	2,50	3.400
2 x 1,5 RE		●	30	10,2	0,45	145
2 x 2,5 RE		●	50	11,0	0,52	180
2 x 4 RE		○	80	11,8	0,57	224
2 x 6 RE		●	120	12,8	0,65	282
2 x 10 RE		○	200	14,4	0,78	393
2 x 16 RM		○	320	17,3	1,04	605
3 x 1,5 RE	●		45	10,6	0,50	165
3 x 2,5 RE	●		75	11,5	0,57	209
3 x 4 RE	●		120	12,4	0,64	268
3 x 6 RE	●		180	13,5	0,72	344
3 x 10 RE	●		300	15,6	0,90	506
3 x 16 RM	●		480	18,0	1,14	761
3 x 25 RM	○		750	22,3	1,63	1.160
3 x 35 RM	○		1.050	24,9	1,92	1.522
3 x 50 RM	○		1.500	27,7	2,30	1.980
3 x 70 RM	○		2.100	32,0	2,96	2.746
3 x 95 RM	○		2.850	36,5	3,67	3.712
3 x 25/16 RM	○		910	23,4	1,76	1.335
3 x 35/16 RM	○		1.210	25,7	2,02	1.683
3 x 50/25 RM	○		1.750	29,0	2,50	2.244
3 x 70/35 RM	○		2.450	33,4	3,18	3.101
3 x 95/50 RM	○		3.350	38,3	4,04	4.207
3 x 120/70 RM	○		4.300	42,6	4,92	5.315
4 x 1,5 RE	●		60	11,3	0,56	192
4 x 2,5 RE	●		100	12,3	0,64	249
4 x 4 RE	●		160	13,3	0,72	322
4 x 6 RE	●		240	14,5	0,82	418
4 x 10 RE	●		400	16,8	1,01	620
4 x 16 RM	●		640	19,8	1,31	944
4 x 25 RM	●		1.000	24,3	1,92	1.452
4 x 35 RM	●		1.400	27,1	2,23	1.906
4 x 50 RM	●		2.000	30,5	2,79	2.514
4 x 70 RM	○		2.800	35,3	3,58	3.497
4 x 95 RM	○		3.800	40,2	3,87	4.728
4 x 120 RM	○		4.800	44,5	5,37	5.882
4 x 150 RM	○		6.000	49,0	6,51	7.199
5 x 1,5 RE	●		75	12,2	0,66	228
5 x 2,5 RE	●		125	13,3	0,75	295
5 x 4 RE	●		200	14,4	0,84	386
5 x 6 RE	●		300	16,1	1,01	518
5 x 10 RE	●		500	18,3	1,22	755
5 x 16 RM	●		800	22,2	1,64	1.187
5 x 25 RM	●		1.250	26,6	2,29	1.773
5 x 35 RM	●		1.750	29,8	2,72	2.341
5 x 50 RM	●		2.500	33,7	3,44	3.100
7 x 1,5 RE	●		105	13,0	0,73	274
10 x 1,5 RE	○		150	16,4	1,01	397
12 x 1,5 RE	●		180	16,8	1,08	438
19 x 1,5 RE	○		285	19,2	1,41	606
24 x 1,5 RE	○		360	22,6	1,78	785
30 x 1,5 RE	○		450	23,7	2,02	917



Number of cores and nominal cross section mm ²	from stock	from stock	Copper figure kg/km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
	J	O				
7 x 2,5 RE	●		175	14,2	0,83	358
12 x 2,5 RE	●		300	18,0	1,24	580
19 x 2,5 RE	○		475	21,8	1,70	852
24 x 2,5 RE	○		600	25,0	2,05	1.054
30 x 2,5 RE	○		750	26,3	2,33	1.245

More types on enquiry