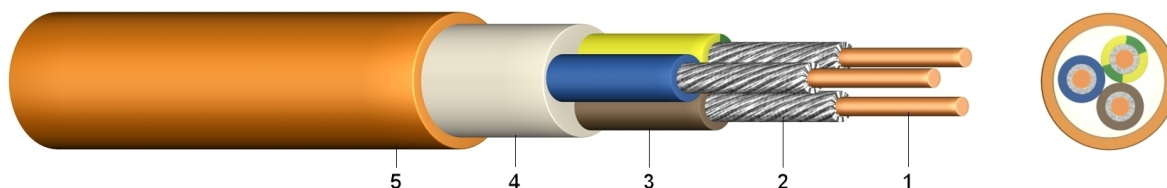


NHXH E90

Halogen-Free Cable with Circuit Integrity of 90 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 90 minutes and insulation integrity of 180 minutes.



Construction:

- 1 solid or stranded bare copper
- 2 flame protective wrapping
- 3 core insulation of halogen-free polymer (HXI 1)
- 4 halogen-free core covering
- 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:

DIN VDE 0266
DIN VDE 0276-604
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	250
Short circuit time	max.	5
Bending radius	single core style	15
	multi core style	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
1 x 16 RM	153,6	10,5	0,42	250
1 x 25 RM	240,0	12,5	0,53	355
1 x 35 RM	336,0	13,5	0,60	460
1 x 50 RM	480,0	15,0	0,69	596
1 x 70 RM	672,0	16,5	0,83	810
1 x 95 RM	912,0	19,0	1,06	1.100
1 x 120 RM	1.152,0	20,5	1,15	1.350

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
1 x 150 RM	1.440,0	22,5	1,38	1.650
1 x 185 RM	1.776,0	25,0	1,68	2.050
1 x 240 RM	2.304,0	28,0	1,84	2.650
1 x 300 RM	2.880,0	31,0	2,18	3.275
2 x 1,5 RE	28,8	14,3	0,69	275
2 x 2,5 RE	48,0	14,9	0,78	320
3 x 1,5 RE	43,2	15,0	1,02	315
3 x 2,5 RE	72,0	15,9	1,12	371
3 x 4 RE	115,2	16,7	1,21	435
3 x 6 RE	172,8	17,8	1,34	526
3 x 10 RE	288,0	19,5	1,54	691
3 x 16 RM	460,8	22,3	1,90	982
3 x 25 RM	720,0	25,8	2,48	1.392
3 x 35 RM	1.008,0	28,4	2,87	1.778
3 x 35/16 RM	1.161,6	29,5	3,06	1.964
3 x 50/25 RM	1.680,0	33,6	3,94	2.633
3 x 70/35 RM	2.352,0	38,1	4,81	3.563
3 x 95/50 RM	3.216,0	43,4	6,16	4.768
3 x 120/70 RM	4.128,0	46,9	6,96	5.856
4 x 1,5 RE	57,6	16,1	1,16	365
4 x 2,5 RE	96,0	17,0	1,27	429
4 x 4 RE	153,6	18,0	1,38	515
4 x 6 RE	230,4	19,2	1,54	628
4 x 10 RE	384,0	21,1	1,77	839
4 x 16 RM	614,4	24,3	2,19	1.210
4 x 25 RM	960,0	28,1	2,85	1.717
4 x 35 RM	1.344,0	31,0	3,29	2.209
4 x 50 RM	1.920,0	35,1	4,21	2.921
4 x 70 RM	2.688,0	40,0	5,20	3.980
4 x 95 RM	3.648,0	45,2	6,56	5.321
4 x 120 RM	4.608,0	49,0	7,38	6.475
4 x 150 RM	5.760,0	53,0	8,62	7.725
5 x 1,5 RE	72,0	17,4	1,34	429
5 x 2,5 RE	120,0	18,4	1,45	506
5 x 4 RE	192,0	19,5	1,59	612
5 x 6 RE	288,0	20,9	1,77	752
5 x 10 RE	480,0	23,0	2,04	1.009
5 x 16 RM	768,0	26,6	2,51	1.465
5 x 25 RM	1.200,0	30,9	3,35	2.105
5 x 35 RM	1.680,0	36,0	3,75	2.500
7 x 1,5 RE	100,8	18,6	1,57	497
12 x 1,5 RE	172,8	23,5	2,33	744
7 x 2,5 RE	168,0	19,8	1,74	599
12 x 2,5 RE	288,0	25,2	2,57	910

More types on enquiry