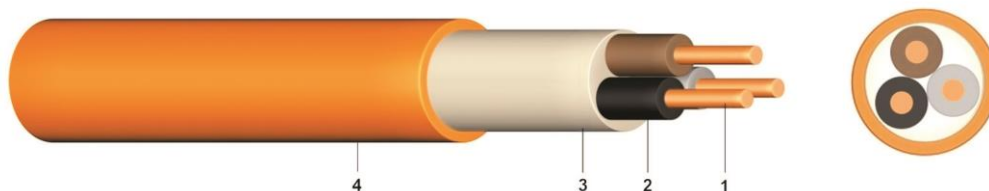




(N)HXH E90 Halogen-Free Cable with Circuit Integrity of 90 Minutes

Application:

Halogen-free power cables with improved fire performance may be installed indoors, in the air or in concrete. Direct installation in soil or water is not permitted. However, laying in the pipe is permissible if precautions have been taken to ensure that no water accumulates in the pipe. When laying outdoors, protection against direct sunlight must be provided. During installation, care must be taken to ensure that the cables are protected against external influences and mechanical damage. Function preservation of the cable system 90 min. (System test), isolation preservation over 180 min.



Construction:

- 1 solid or stranded bare copper
- 2 core insulation made of cross-linked, halogen-free, ceramizable 2 layered insulation (HXI 2)
- 3 halogen-free core covering
- 4 outer sheath of halogen-free polymer, 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	°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	10,5	0,42	250
1 x 25 RM		○	250	12,5	0,53	355
1 x 35 RM	○	○	350	13,5	0,60	460
1 x 50 RM	○	○	500	15,0	0,69	596
1 x 70 RM	○	○	700	16,5	0,83	810
1 x 95 RM	○	○	950	19,0	1,06	1.100
1 x 120 RM	○	○	1.200	20,5	1,15	1.350



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 150 RM	○		1.500	22,5	1,38	1.650
1 x 185 RM			1.850	25,0	1,68	2.050
1 x 240 RM			2.400	28,0	1,84	2.650
1 x 300 RM			3.000	31,0	2,18	3.275
2 x 1,5 RE			30	14,3	0,69	275
2 x 2,5 RE			50	14,9	0,78	320
3 x 1,5 RE	●		45	15,0	1,02	315
3 x 2,5 RE	●		75	15,9	1,12	371
3 x 4 RE	●		120	16,7	1,21	435
3 x 6 RE	○		180	17,8	1,34	526
3 x 10 RE	○		300	19,5	1,54	691
3 x 16 RM	○		480	22,3	1,90	982
3 x 25 RM	○		750	25,8	2,48	1.392
3 x 35 RM	○		1.050	28,4	2,87	1.778
3 x 35/16 RM	○		1.210	29,5	3,06	1.964
3 x 50/25 RM	○		1.750	33,6	3,94	2.633
3 x 70/35 RM	○		2.450	38,1	4,81	3.563
3 x 95/50 RM	○		3.350	43,4	6,16	4.768
3 x 120/70 RM	○		4.300	46,9	6,96	5.856
4 x 1,5 RE	●		60	16,1	1,16	365
4 x 2,5 RE	●		100	17,0	1,27	429
4 x 4 RE	●		160	18,0	1,38	515
4 x 6 RE	●		240	19,2	1,54	628
4 x 10 RE	●		400	21,1	1,77	839
4 x 16 RM	●		640	24,3	2,19	1.210
4 x 25 RM	●		1.000	28,1	2,85	1.717
4 x 35 RM	●		1.400	31,0	3,29	2.209
4 x 50 RM	●		2.000	35,1	4,21	2.921
4 x 70 RM	○		2.800	40,0	5,20	3.980
4 x 95 RM	○		3.800	45,2	6,56	5.321
4 x 120 RM	○		4.800	49,0	7,38	6.475
4 x 150 RM	○		6.000	53,0	8,62	7.725
5 x 1,5 RE	●		75	17,4	1,34	429
5 x 2,5 RE	●		125	18,4	1,45	506
5 x 4 RE	●		200	19,5	1,59	612
5 x 6 RE	●		300	20,9	1,77	752
5 x 10 RE	●		500	23,0	2,04	1.009
5 x 16 RM	●		800	26,6	2,51	1.465
5 x 25 RM	●		1.250	30,9	3,35	2.105
5 x 35 RM	●		1.750	36,0	3,75	2.500
5 x 50 RM	●		2.460	36,4	4,83	3.179
7 x 1,5 RE	●		105	18,6	1,57	497
12 x 1,5 RE	●		180	23,5	2,33	744
7 x 2,5 RE	●		175	19,8	1,74	599
12 x 2,5 RE	○		300	25,2	2,57	910

More types on enquiry