

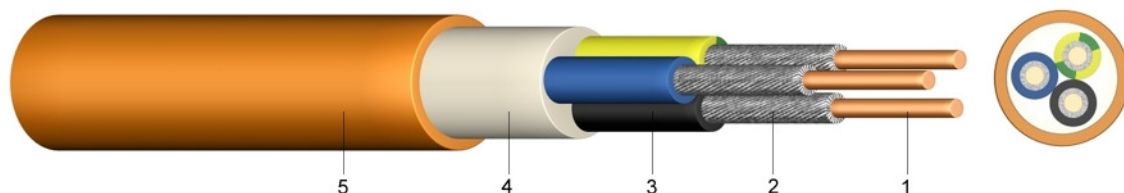
Datasheet NHXH E90

Version 1/2009

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. Circuit 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 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:

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
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	Copper figure kg/km	Overall diameter appr.mm	Calorific potential kWh/m	Weight appr. kg/km
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

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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
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
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