

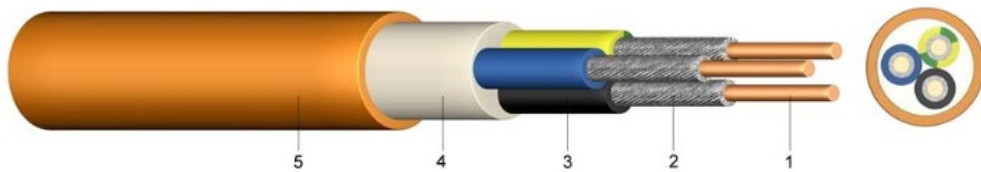
(N)HXH E90

Safety cable, 0,6/1 kV
+90 °C service temperature, low smoke, zero halogen, fire resistant
adapted to DIN VDE 0266

Application

Fire resistant power cable. Cables with intrinsic fire resistance are installed in all areas that require special protection of people and equipment against fire and fire damages and where strict security requirements must be fulfilled. For fixed installation indoors, in air or concrete. Outdoor laying only permitted when protected from direct sunlight and other external impacts. Underground installation is allowed provided that the cable is installed in a sufficiently drained tube (no water accumulation).

Construction



- | | |
|----------------------|-------------------------------------------------------------------------------|
| 1. Conductor: | Copper conductor, bare, solid (class 1) or stranded (class 2) |
| 2. Taping: | Mica Tape (optional) |
| 3. Insulation: | Cross-linked halogen free compound |
| Core identification: | according to HD 308 S2 |
| | -J: with green/yellow core -O: without green/yellow core |
| 4. Core covering: | Halogen free compound |
| 5. Outer sheath: | Halogen free compound, orange |

Technical information

Rated voltage	U ₀ /U	0,6/1 kV
Test voltage		4 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C (max. 5 sec)
Min. operating temperature	fixed installation	-30 °C
Min. temperature during installation		-5 °C
Min. bending radius mm	fixed installation	15 x outer diameter in mm (single core) 12 x outer diameter in mm (multicore)
Safety parameters		
Flame spread	single cable	IEC 60332-1-2
	bunched cables	IEC 60332-3-24
Zero halogen		IEC 60754-1 /-2
Smoke density		IEC 61034-1/ -2
Insulation integrity	FE180	IEC 60331-11/ -21, EN 50200, DIN 0472-814
Circuit integrity		E90 DIN 4102-12 (depending on laying system)

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N° of cores and cross section mm ²	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
1 x 10 RE	9,5	96	173
1 x 16 RM	10,6	154	255
1 x 25 RM	12,5	230	364
1 x 35 RM	13,6	336	463
1 x 50 RM	14,7	480	602
1 x 70 RM	17,1	672	830
1 x 95 RM	19,4	912	1128
1 x 120 RM	20,9	1152	1375
1 x 150 RM	23,2	1440	1658
1 x 185 RM	25,6	1776	2044
1 x 240 RM	28,7	2304	2694
1 x 300 RM	32,8	2880	3458
1 x 400 RM	36,6	3840	4366
2 x 1,5 RE	12,7	178	193
2 x 2,5 RE	13,5	217	227
2 x 4 RE	14,2	272	275
2 x 6 RE	15,1	337	330
2 x 10 RE	16,5	337	420
2 x 16 RM	19,8	337	613
3 x 1,5 RE	12,6	43	194
3 x 2,5 RE	13,4	72	236
3 x 4 RE	15,0	115	295
3 x 6 RE	15,9	173	363
3 x 10 RE	17,4	288	495
3 x 16 RM	21,5	461	785
3 x 25 RM	24,9	720	1140
3 x 50 RM	27,3	720	1454
3 x 70 RM	30,9	720	1947
3 x 95 RM	34,8	720	2648
3 x 35 RM + 16 RM	29,0	1162	1804
3 x 50 RM + 25 RM	33,3	1680	2387
3 x 70 RM + 35 RM	37,2	2352	3193
3 x 95 RM + 50 RM	44,0	3216	4831
3 x 120 RM + 70 RM	46,5	4128	5338
3 x 150 RM + 70 RM	51,0	4992	7064
3 x 185 RM + 95 RM	57,0	6240	8600
3 x 240 RM + 120 RM	67,4	8064	10266

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N° of cores and cross section mm ²	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
4 x 1,5 RE	13,9	58	244
4 x 2,5 RE	14,9	96	299
4 x 4 RE	16,4	154	374
4 x 6 RE	17,5	230	466
4 x 10 RE	19,1	384	641
4 x 16 RM	23,6	614	959
4 x 25 RM	27,4	960	1474
4 x 35 RM	30,4	1344	1903
4 x 50 RM	34,2	1920	2548
4 x 70 RM	38,6	2688	3486
4 x 95 RM	44,6	3648	4768
4 x 120 RM	48,9	4608	5658
4 x 150 RM	53,6	5760	6955
4 x 185 RM	59,4	7104	8607
4 x 240 RM	67,6	9216	11399
5 x 1,5 RE	15,3	72	296
5 x 2,5 RE	16,3	120	365
5 x 4 RE	17,9	192	461
5 x 6 RE	19,1	288	576
5 x 10 RE	20,8	480	793
5 x 16 RM	26,0	768	1201
5 x 25 RM	30,2	1200	1756
5 x 35 RM	33,5	1680	2365
5 x 50 RM	38,4	1680	3187
7 x 1,5 RE	16,8	101	365
7 x 2,5 RE	18,0	168	456
10 x 1,5 RE	22,5	173	664
10 x 2,5 RE	24,1	288	798
12 x 1,5 RE	21,9	173	583
12 x 2,5 RE	23,5	288	738
24 x 1,5 RE	29,9	346	1081
24 x 2,5 RE	30,0	576	1280

RE = round solid, class 1

RM = round stranded, class 2

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.