

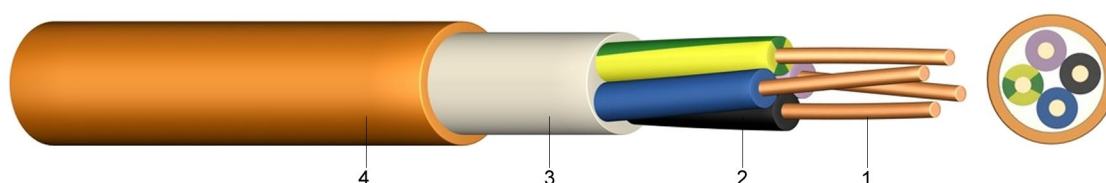
## (N)HXH E30-E60 RF 1h

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). System Circuit Integrity is provided up to 400 V operating voltage.

### Construction



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

### Technical information

Rated voltage	U <sub>0</sub> /U	0,6/1 kV
Test voltage		3,5 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	-45 °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)
<b>Safety parameters</b>		
Flame spread	single cable	IEC 60332-1-2, AREI-RGIE Art.104-F1
	bunched cables	IEC 60332-3-24, AREI-RGIE Art.104-F2
Zero halogen		IEC 60754-1 /-2, AREI-RGIE Art.104-SA
Smoke density		IEC 61034-1/ -2, AREI-RGIE Art.104-SD
Insulation integrity		IEC 60331, EN 50200, DIN 0472-814, AREI-RGIE Art.104-FR1
Circuit integrity		AREI-RGIE Art.104-FR2, Rf1h NBN 713-020 E30 – E60 DIN 4102-12 (depending on laying system)

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N° of cores and cross section mm <sup>2</sup>	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
1 x 6 RE	7,6	58	113
1 x 10 RE	8,4	96	158
1 x 16 RM	9,8	154	227
1 x 25 RM	11,3	230	329
1 x 35 RM	12,4	336	428
1 x 50 RM	13,9	480	565
1 x 70 RM	15,7	672	783
1 x 95 RM	18,0	912	1.054
1 x 120 RM	19,2	1.152	1.281
1 x 150 RM	21,4	1.440	1.606
1 x 185 RM	23,5	1.776	1.891
1 x 240 RM	26,8	2.304	2.670
2 x 1,5 RE	11,0	178	29
2 x 2,5 RE	11,8	217	48
2 x 4 RE	12,8	272	77
2 x 6 RE	13,8	337	115
3 x 1,5 RE	11,5	43	200
3 x 2,5 RE	12,4	72	250
3 x 4 RE	13,5	115	319
3 x 6 RE	14,6	173	403
3 x 10 RE	16,3	288	560
3 x 16 RM	19,3	461	811
3 x 25 RM	22,6	720	1.184
3 x 25 RM + 16 RM	23,9	874	1.361
3 x 35 RM + 16 RM	25,9	1.162	1.692
3 x 50 RM + 25 RM	29,9	1.680	2.311
3 x 70 RM + 35 RM	34,0	2.352	3.171
3 x 95 RM + 50 RM	39,3	3.216	4.276
3 x 120 RM + 70 RM	42,6	4.128	5.303
3 x 150 RM + 70 RM	46,6	4.992	6.417
3 x 185 RM + 95 RM	52,0	6.240	8.040

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N° of cores and cross section mm <sup>2</sup>	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
4 x 1,5 RE	12,4	58	234
4 x 2,5 RE	13,4	96	296
4 x 4 RE	14,6	154	381
4 x 6 RE	15,8	230	490
4 x 10 RE	17,8	384	695
4 x 16 RM	21,1	614	1.009
4 x 25 RM	24,8	960	1.485
4 x 35 RM	27,4	1.344	1.929
4 x 50 RM	31,5	1.920	2.600
4 x 70 RM	36,2	2.688	3.618
4 x 95 RM	41,7	3.648	4.860
4 x 120 RM	44,6	4.608	5.890
4 x 150 RM	50,0	5.760	7.417
4 x 185 RM	55,3	7.104	9.164
4 x 240 RM	63,0	9.216	12.029
5 x 1,5 RE	13,4	72	278
5 x 2,5 RE	14,5	120	353
5 x 4 RE	15,8	192	456
5 x 6 RE	17,2	288	589
5 x 10 RE	19,3	480	832
5 x 16 RM	23,1	768	1.223
5 x 25 RM	27,2	1.200	1.806
5 x 35 RM	30,5	1.680	2.384
7 x 1,5 RE	14,4	101	331
7 x 2,5 RE	15,6	168	426
12 x 1,5 RE	18,3	173	513
12 x 2,5 RE	20,0	288	675
19 x 1,5 RE	21,1	274	715
19 x 2,5 RE	23,2	456	953
24 x 1,5 RE	24,6	346	901
24 x 2,5 RE	27,0	576	1.205

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.