

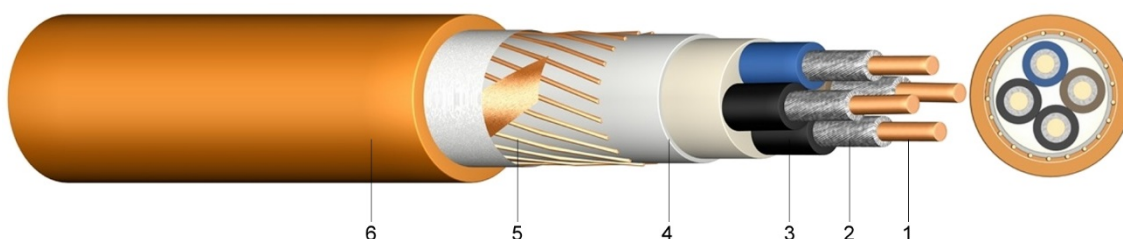
## (N)HXCH E90

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

### Application

Fire resistant power cable with concentric copper conductor. 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
4. Core covering: Halogen free compound
5. Concentric conductor: Bare copper wires with counter helix of copper tape
6. Outer sheath: Halogen free compound, orange

### Technical information

Rated voltage	U <sub>0</sub> /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	12 x outer diameter in mm

#### 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)

## (N)HXCH E90

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

N° of cores and cross section mm <sup>2</sup>	Outer diameter approx. mm	Copper index approx. kg/km	Weight approx. kg/km
3 x 1,5 RE/1,5	13,2	66	249
3 x 2,5 RE/2,5	14,1	104	309
3 x 4 RE/4	15,6	161	403
3 x 6 RE/6	16,9	240	527
3 x 10 RE/10	18,6	408	712
3 x 16 RM/16	24,4	643	1.077
3 x 25 RM/16	25,8	902	1.465
3 x 35 RM/16	29,0	1190	1.833
3 x 50 RM/25	32,5	1723	2.556
3 x 70 RM/35	37,6	2410	3.539
3 x 95 RM/50	41,9	3296	4.612
3 x 120 RM/70	45,3	4236	5.703
3 x 150 RM/70	50,0	5100	6.931
3 x 185 RM/95	57,0	6383	8.334
3 x 240 RM/120	62,4	8242	11.183
4 x 1,5 RE/1,5	14,1	81	284
4 x 2,5 RE/2,5	15,1	128	356
4 x 4 RE/4	16,7	200	467
4 x 6 RE/6	18,1	297	625
4 x 10 RE/10	20,1	504	868
4 x 16 RM/16	25,3	796	1.400
4 x 25 RM/16	28,9	1.142	1.898
4 x 35 RM/16	31,6	1.526	2.380
4 x 50 RM/25	36,7	2.203	3.247
4 x 70 RM/35	41,3	3.082	4.375
4 x 95 RM/50	46,4	4.208	5.746
4 x 120 RM/70	50,1	5.388	7.094
4 x 150 RM/70	55,3	6.540	8.651
4 x 185 RM/95	60,8	8.159	10.751
4 x 240 RM/120	69,2	10.546	13.980
7 x 1,5 RE/2,5	16,1	133	394
7 x 2,5 RE/2,5	17,3	200	493
12 x 1,5 RE/2,5	20,2	205	597
12 x 2,5 RE/4	28,4	334	661
24 x 1,5 RE/6	27,0	413	1.078
24 x 2,5 RE/10	29,6	696	1.442
30 x 1,5 RE/6	28,4	499	1.250
30 x 2,5 RE/10	28,5	840	1.357

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.

All information is for guidance only without liability. Subject to change without notice.

ELTEC sa – rue Robert-Peutat, 7b – 4834 Goé Belgium | +32 87 76 02 20 | www.elteccable.be | eltec@elteccable.be