



INTERKABEL KYIV

HXHCH FE180/E30, (N)HXHCH FE180/E30

Halogen-free energy cable with insulation integrity FE180 and circuit integrity E30

DESIGN



- 1 | Copper conductor, round solid (RE), resp. round stranded (RM)
- 2 | Core insulation (silicone rubber)
- 3 | Inner covering (halogen-free fixation tape)
- 4 | Sheath (halogen-free polymer compound, orange)

APPLICATION

These cables are intended for the stationary distribution of electrical energy in dry or damp premises and for fixed installations in air or concrete. Suitable for hotels, hospitals, underground railways, airports etc. to protect people and technical building equipment in the event of fire if circuit integrity is required (circuit integrity is only maintained if these cables are installed with specified supporting elements). Not allowed for installations underground or in water. These cables are not UV-protected.

TECHNICAL DATA



Standard:
adapted to DIN VDE 0266



Rated voltage:
0.6/1 kV



Test voltage:
4 kV/50 Hz



Temperature range:
 laying temperature: min. -15 °C
 operating temperature: -30 °C up to +90 °C
 conductor temperature: max. +90 °C
 short-circuit temperature: max. +250 °C/4 s



Bending radius (min.):
 15 x Ø of cable (single core)
 12 x Ø of cable (multi-core)



Core identification:
HD 308 S2



Fire properties:
 flame retardant:
 EN 60332-1-2
 halogen-free, non-corrosive combustion gases :
 EN 60754-2
 reduced flame propagation:
 EN 60332-3-24
 low smoke emission:
 EN 61034-2
 insulation integrity FE 180:
 IEC 60331-21, DIN VDE 0472-814
 circuit integrity E30:
 DIN 4102-12



Certificate:
 UkrSepro certification in Ukraine
 EZÚ Czech Republic, VDE Germany



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Number and nominal cross-section of cores (mm)	Electrical resistance of the cores, no more than (Om/km)	Current load in air (A)	Calculated cable diameter (mm)	Calculated weight 1 km of cable (kg)
HXCH-FE 180/E30, (N)HXCH-FE 180/E30				
2 x 1,5 RE/1,5	12,1000	29	11,6	185
3 x 1,5 RE/1,5	12,1000	24	12,1	205
4 x 1,5 RE/1,5	12,1000	24	13,0	235
5 x 1,5 RE/1,5	12,1000	24	13,8	265
7 x 1,5 RE/2,5	12,1000	14	14,7	330
10 x 1,5 RE/2,5	12,1000	13	17,5	425
12 x 1,5 RE/2,5	12,1000	12	18,2	475
14 x 1,5 RE/2,5	12,1000	11	18,9	525
19 x 1,5 RE/4	12,1000	11	21,2	660
24 x 1,5 RE/6	12,1000	10	24,5	835
30 x 1,5 RE/6	12,1000	9	25,7	970
40 x 1,5 RE/10	12,1000	8	28,4	1 245
2 x 2,5 RE/2,5	7,4100	38	12,4	230
3 x 2,5 RE/2,5	7,4100	32	13,1	265
4 x 2,5 RE/2,5	7,4100	32	14,0	305
5 x 2,5 RE/2,5	7,4100	32	14,9	345
7 x 2,5 RE/2,5	7,4100	20	15,9	415
10 x 2,5 RE/4	7,4100	18	19,9	575
12 x 2,5 RE/4	7,4100	17	20,4	635
14 x 2,5 RE/6	7,4100	16	21,3	705
19 x 2,5 RE/6	7,4100	16	23,4	910
24 x 2,5 RE/10	7,4100	13	27,2	1 155
30 x 2,5 RE/10	7,4100	12	28,8	1 365
40 x 2,5 RE/10	7,4100	11	31,4	1 710
2 x 4 RE/4	4,6100	51	14,7	315
3 x 4 RE/4	4,6100	42	15,4	365
4 x 4 RE/4	4,6100	42	16,4	420
5 x 4 RE/4	4,6100	42	17,6	485
7 x 4 RE/4	4,6100	28	19,0	600
10 x 4 RE/6	4,6100	25	23,2	820
12 x 4 RE/6	4,6100	23	23,8	920
14 x 4 RE/6	4,6100	22	24,9	1 030
19 x 4 RE/10	4,6100	22	27,8	1 350
2 x 6 RE/6	3,0800	64	15,7	395
3 x 6 RE/6	3,0800	53	16,4	460
4 x 6 RE/6	3,0800	53	17,8	550
5 x 6 RE/6	3,0800	53	19,1	630
2 x 10 RE/10	1,8300	86	17,9	555
3 x 10 RE/10	1,8300	74	18,7	655
4 x 10 RE/10	1,8300	74	20,1	770
5 x 10 RE/10	1,8300	74	21,6	905
2 x 16 RM/16	1,1500	110	20,1	775



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HXCH-FE 180/E30, (N)HXCH-FE 180/E30				
3 x 16 RM/16	1,1500	98	21,1	930
4 x 16 RM/16	1,1500	98	22,8	1 110
5 x 16 RM/16	1,1500	98	24,8	1 320
3 x 25 RM/16	0,7270	133	27,4	1 410
4 x 25 RM/16	0,7270	133	29,0	1 655
5 x 25 RM/16	0,7270	133	31,7	1 995
3 x 35 RM/16	0,5240	162	28,6	1 600
4 x 35 RM/16	0,5240	162	31,1	1 980
5 x 35 RM/16	0,5240	162	34,2	2 420
3 x 50 RM/25	0,3870	197	32,4	2 155
4 x 50 RM/25	0,3870	197	35,7	2 700
5 x 50 RM/25	0,3870	197	39,1	3 285
3 x 70 RM/35	0,2680	250	37,5	2 930
4 x 70 RM/35	0,2680	250	41,0	3 650
5 x 70 RM/35	0,2680	250	45,1	4 475
3 x 95 RM/50	0,1930	308	42,5	3 895
4 x 95 RM/50	0,1930	308	46,6	4 850
5 x 95 RM/50	0,1930	308	51,3	5 950
3 x 120 RM/70	0,1530	359	45,8	4 870
4 x 120 RM/70	0,1530	359	50,5	6 105
5 x 120 RM/70	0,1530	359	55,6	7 450
3 x 150 RM/70	0,1240	412	50,3	5 845
4 x 150 RM/70	0,1240	412	55,4	7 345
5 x 150 RM/70	0,1240	412	61,7	9 010

1) basic rated current acc. to DIN VDE 0266
Subject to technical changes.