



INTERKABEL KYIV

HXH FE180/E90, (N)HXH FE180/E90

Halogen-free energy cable with insulation integrity FE180 and circuit integrity E90

DESIGN



- 1 | Copper conductor, round solid (RE), resp. round stranded (RM)
- 2 | Primary core insulation (silicone rubber)
- 3 | Secondary core insulation (silicone rubber)
- 4 | Inner covering (halogen-free polymer compound)
- 5 | 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 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 E90:
 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 ²)	Calculated cable diameter (mm)	Calculated weight 1 km of cable (kg)	Cores' electrical resistance, in keeping with IEC 60228, no more (Om/km)
HXH-FE 180/E90, (N)HXH-FE 180/E90			
2 x 1,5	12,9	235	12,1000
2 x 2,5	13,7	273	7,4100
2 x 4	14,7	355	4,6100
2 x 6	15,7	426	3,0800
2 x 10	17,2	551	1,8300
2 x 16	19,6	750	1,1500
2 x 25	22,9	1 070	0,7270
2 x 35	25,4	1 364	0,5240
2 x 50	28,8	1 804	0,3870
2 x 70	32,6	2 395	0,2680
2 x 95	37,2	3 201	0,1930
2 x 120	40,4	3 802	0,1530
2 x 150	44,2	4 666	0,1240
2 x 185	49,4	5 871	0,0991
2 x 240	55,8	7 417	0,0754
3 x 1,5	13,5	287	12,1000
3 x 2,5	14,4	342	7,4100
3 x 4	15,4	417	4,6100
3 x 6	16,4	508	3,0800
3 x 10	18,1	674	1,8300
3 x 16	20,7	935	1,1500
3 x 25	24,3	1 354	0,7210
3 x 35	27,2	1 761	0,2540
3 x 50	30,8	2 343	0,3870
3 x 70	34,9	3 129	0,2680
3 x 95	39,8	4 202	0,1930
3 x 120	43,7	5 051	0,1530
3 x 150	47,3	6 151	0,1240
3 x 185	52,9	7 757	0,0991
3 x 240	59,7	9 801	0,0754
4 x 1,5	14,4	326	12,1000
4 x 2,5	15,3	393	7,4100
4 x 4	16,5	486	4,6100
4 x 6	17,7	599	3,0800
4 x 10	19,6	807	1,8300
4 x 16	22,4	1 130	1,1500
4 x 25	26,4	1 652	0,7270
4 x 35	29,6	2 158	0,5240
4 x 50	34,3	2 943	0,3870
4 x 70	38,3	3 889	0,2680



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HXH-FE 180/E90, (N)HXH-FE 180/E90			
4 x 95	44,2	5 286	0,1930
4 x 120	47,6	6 236	0,1530
4 x 150	52,3	7 727	0,1240
4 x 185	58,8	9 813	0,0991
4 x 240	66,0	12 284	0,0754
5 x 1,5	15,4	367	12,1000
5 x 2,5	16,5	447	7,4100
5 x 4	17,8	558	4,6100
5 x 6	19,1	693	3,0800
5 x 10	21,2	943	1,8300
5 x 16	24,4	1 330	1,1500
5 x 25	29,1	1 971	1,7270
5 x 35	33,3	2 638	0,5240
5 x 50	37,8	3 520	0,3870
5 x 70	42,9	4 736	0,2680
5 x 95	49,0	6 370	0,1930
5 x 120	53,2	7 582	0,1530
5 x 150	58,3	9 390	0,1240
5 x 185	65,2	11 833	0,0991
5 x 240	73,8	14 935	0,0754

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