INTERKABEL KYIV

HXH FE180/E30, (N)HXH FE180/E30

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

DESIGN

1 I Copper conductor, round solid (RE), resp. round stranded (RM)
2 I Core insulation (silicone rubber)
3 I Inner covering (halogen-free fixation tape)
4 I 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 ∅ of cable (single core)
12 x ∅ 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 (mm²)	Calculated cable diameter (mm)	Calculated weight 1 km of cable (kg)	Cores' electrical resistance, in keeping with with IEC 60228, no more (Om/km)
HXH-FE 180/E30, (N)HXH-FE 180/E30			
1 x 25	10,4	307,5	0,7270
1 x 35	11,7	405,1	0,5240
1 x 50	13,5	554,7	0,3870
1 x 70	15,1	755,1	0,2680
1 x 95	17,1	1 024,9	0,1930
1 x 120	19,1	1 233,9	0,1530
1 x 150	20,4	1 524,2	0,1240
1 x 185	23,0	1 938,6	0,0991
1 x 240	25,8	2 426,1	0,0754
2 x 1,5	8,5	112,8	12,1000
2 x 2,5	9,3	145,1	7,4100
2 x 4	10,3	191,4	4,6100
2 x 6	11,3	247,4	3,0800
2 x 10	13,0	358,1	1,8300
2 x 16	16,8	602,4	1,1500
3 x 1,5	9,0	132,8	12,1000
3 x 2,5	9,9	174,5	7,4100
3 x 4	10,9	234,8	4,6100
3 x 6	12,2	314,9	3,0800
3 x 10	13,9	454,2	1,8300
3 x 16	17,8	753,3	1,1500
4 x 1,5	9,8	158,3	12,1000
4 x 2,5	10,7	210,5	7,4100
4 x 4	12,1	292,6	4,6100
4 x 6	13,3	386,8	3,0800
4 x 10	15,2	563,8	1,8300
4 x 16	19,6	942,0	1,1500
4 x 25	23,8	1 432,7	0,7270
4 x 35	26,8	1 888,3	0,5240
4 x 50	30,8	2 569,8	0,3870
4 x 70	35,2	3 492,8	0,2680
4 x 95	40,4	4 745,6	0,1930
4 x 120	45,6	5 744,8	0,1530
4 x 150	48,5	7 053,6	0,1240
4 x 185	54,4	8 938,8	0,0991
4 x 240	61,7	11 301,9	0,0754
5 x 1,5	10,7	186,3	12,1000
5 x 2,5	11,7	249,7	7,4100
5 x 4	13,2	349,5	4,6100
5 x 6	14,6	463,9	3,0800

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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 with IEC 60228, no more (Om/km)
HXH-FE 180/E30, (N)HXH-FE 180/E30			
5 x 10	16,7	680,5	1,8300
5 x 16	21,5	1 130,0	1,1500
5 x 25	26,1	1 724,5	1,7270
5 x 35	29,7	2 293,2	0,5240
5 x 50	33,9	3 107,2	0,3870
5 x 70	38,8	4 228,3	0,2680
5 x 95	44,7	5 754,9	0,1930
5 x 120	50,7	6 985,6	0,1530
5 x 150	53,8	8 592,3	0,1240
5 x 185	60,4	10 892,2	0,0991
5 x 240	68,5	13 763,7	0,0754

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