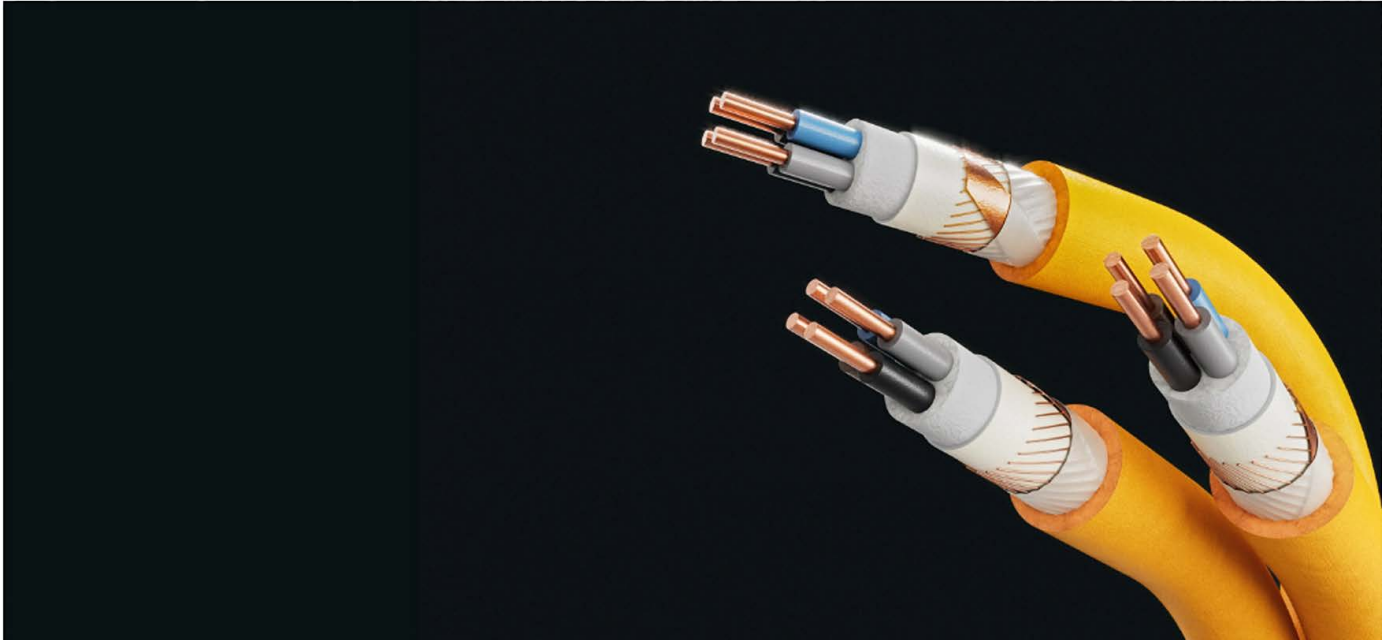


PRAFlaTec (N)HXCH FE180/E90

SiR/FRNC halogen-free energy cable with insulation integrity and circuit integrity, screened



DESIGN

1. Copper conductor, round solid (RE)
2. Core insulation (silicone rubber)
3. Inner covering (halogen-free tape and halogen free polymer compound)
4. Inner sheath (halogen-free polymer compound)
5. Concentric screen (bare copperwires applied with changing direction of lay) and counter helix (copper tape)
6. 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. Not allowed for installations underground or in water. These cables are not UV-protected.

TECHNICAL DATA



Standard

HD604, HD627



Certificate

VDE Germany

Test Voltage

core/core 4 kV / 50 Hz

Rated Voltage

0.6/1 kV

Bending radius (min.)

12 x Ø of cable

Fire properties

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

Core identification

HD 308 S2



Temperature range

Laying temperature: min. -5°C
 Operating temperature: -50°C up to 90°C
 Conductor temperature: max. 90°C
 Short circuit temperature: max. 250°C

DATA-SHEET

PRAFlaTec (N)HXCH FE180/E90

PARAMETERS

Number of cores x nominal cross-section / cross-section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm)	Total weight (kg/km)
2 x 1.5 RE / 1.5	12.1	29	10.8	159
3 x 1.5 RE / 1.5	12.1	24	11.2	178
4 x 1.5 RE / 1.5	12.1	24	12.1	209
5 x 1.5 RE / 1.5	12.1	24	12.9	236
7 x 1.5 RE / 2.5	12.1	16	13.9	299
10 x 1.5 RE / 2.5	12.1	13	17	421
12 x 1.5 RE / 2.5	12.1	13	17.4	458
19 x 1.5 RE / 2.5	12.1	11	19.8	626
24 x 1.5 RE / 6	12.1	10	23.7	857
30 x 1.5 RE / 6	12.1	8	24.8	975
40 x 1.5 RE / 10	12.1	8	28.1	1262
52 x 1.5 RE / 10	12.1	8	31.2	1563
61 x 1.5 RE / 10	12.1	7	33.2	1789
2 x 2.5 RE / 2.5	7.41	38	12.1	215
3 x 2.5 RE / 2.5	7.41	32	12.6	244
4 x 2.5 RE / 2.5	7.41	32	13.6	287
5 x 2.5 RE / 2.5	7.41	32	14.5	328
7 x 2.5 RE / 2.5	7.41	21	15.7	405
10 x 2.5 RE / 4	7.41	18	19.9	593
12 x 2.5 RE / 4	7.41	17	20.6	660
19 x 2.5 RE / 4	7.41	14	23.7	927
24 x 2.5 RE / 10	7.41	13	27.7	1236
30 x 2.5 RE / 10	7.41	10	29.2	1430
40 x 2.5 RE / 10	7.41	10	32.5	1804
52 x 2.5 RE / 10	7.41	10	36.4	2270
61 x 2.5 RE / 10	7.41	9	38.3	2565
2 x 4 RE / 4	4.61	51	14	289
3 x 4 RE / 4	4.61	42	14.6	331
4 x 4 RE / 4	4.61	42	15.8	391
5 x 4 RE / 4	4.61	42	17	456
2 x 6 RE / 6	3.08	64	15.6	385
3 x 6 RE / 6	3.08	53	16.2	445
4 x 6 RE / 6	3.08	53	17.5	528

DATA-SHEET**PRAFlaTec (N)HXCH FE180/E90****PARAMETERS**

Number of cores x nominal cross-section / cross-section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm)	Total weight (kg/km)
5 x 6 RE / 6	3.08	53	19	617
2 x 10 RE / 10	1.83	86	18.8	583
3 x 10 RE / 10	1.83	74	19.6	683
4 x 10 RE / 10	1.83	74	21.2	813
5 x 10 RE / 10	1.83	74	23	960

Technical changes reserved. All figures are therefore without guarantee.