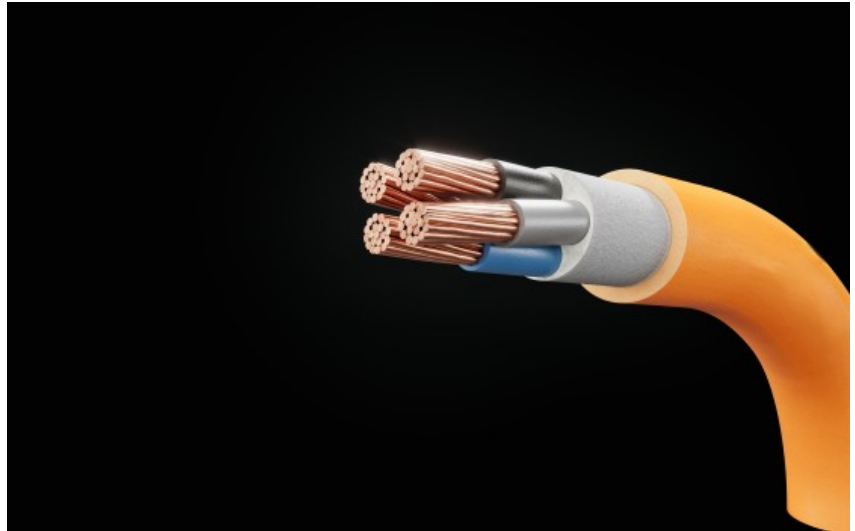


PRAFlaTec® (N)HXH FE180/E90

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



DESIGN

1. Copper conductor, round solid (RE) or round stranded (RM)
2. Core insulation (silicone rubber)
3. Inner covering (halogen-free tape or halogen free polymer compound)
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. Not allowed for installations underground or in water. These cables are not UV-protected

TECHNICAL DATA



Standard

adapted to DIN VDE 0266
HD 604.5H
DIN VDE 0276-604, part 0, 1 and 5G
DIN VDE 0276-627, part 1 and 7H



Certificate

VDE Germany

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: insulation integrity FE180
DIN 4102-12: circuit integrity E90

Core identification

HD 308 S2

Rated Voltage

0,6/1 kV

Test Voltage

core/core 4 kV / 50 Hz

Bending radius (min.)

12 x ϕ of cable



Temperature range

Laying temperature: min. -5°C
Operating temperature: -30°C up to 90°C
Conductor temperature: max. 90°C
Short circuit temperature: max. 250°C

DATA-SHEET

PRAFlaTec® (N)HXH FE180/E90

PARAMETERS

Number of cores x nominal cross-section (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	12.1	29	9.3	126
3 x 1.5 RE	12.1	24	9.9	147
4 x 1.5 RE	12.1	24	10.7	174
5 x 1.5 RE	12.1	24	11.5	202
7 x 1.5 RE	12.1	16	12.6	254
10 x 1.5 RE	12.1	13	15.8	379
12 x 1.5 RE	12.1	13	16.3	414
14 x 1.5 RE	12.1	12	17.2	466
16 x 1.5 RE	12.1	12	18	517
19 x 1.5 RE	12.1	11	19.1	591
21 x 1.5 RE	12.1	10	20	630
24 x 1.5 RE	12.1	10	22.3	777
30 x 1.5 RE	12.1	8	23.5	894
40 x 1.5 RE	12.1	8	28.5	1298
52 x 1.5 RE	12.1	8	31.8	1626
61 x 1.5 RE	12.1	7	33.9	1865
2 x 2.5 RE	7.41	38	10.2	161
3 x 2.5 RE	7.41	32	10.8	190
4 x 2.5 RE	7.41	32	11.6	225
5 x 2.5 RE	7.41	32	12.8	269
7 x 2.5 RE	7.41	20	13.9	343
10 x 2.5 RE	7.41	17	17.6	510
12 x 2.5 RE	7.41	16	18.1	562
14 x 2.5 RE	7.41	16	19.1	635
16 x 2.5 RE	7.41	15	20	707
19 x 2.5 RE	7.41	14	21.2	811
21 x 2.5 RE	7.41	13	22.5	878
24 x 2.5 RE	7.41	12	24.8	1063
30 x 2.5 RE	7.41	10	28.3	1396
40 x 2.5 RE	7.41	10	31.5	1760
52 x 2.5 RE	7.41	10	35.4	2235
61 x 2.5 RE	7.41	9	37.7	2569
2 x 4 RE	4.61	51	12.2	233

DATA-SHEET

PRAFlaTec® (N)HXH FE180/E90

PARAMETERS

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm)	Total weight (kg/km)
3 x 4 RE	4.61	42	12.8	275
4 x 4 RE	4.61	42	14	334
5 x 4 RE	4.61	42	15.2	391
2 x 6 RE	3.08	63	13.1	291
3 x 6 RE	3.08	54	14.1	356
4 x 6 RE	3.08	54	15.2	429
5 x 6 RE	3.08	54	16.7	514
2 x 10 RE	1.83	86	15.1	418
3 x 10 RE	1.83	74	16.2	520
4 x 10 RE	1.83	74	17.8	642
5 x 10 RE	1.83	74	19.6	778
1 x 16 RM	1.15	131	9.7	213
2 x 16 RE	1.15	113	17.4	588
2 x 16 RM	1.15	113	17.9	611
3 x 16 RE	1.15	98	18.4	732
3 x 16 RM	1.15	98	19.2	764
4 x 16 RE	1.15	98	20.2	911
4 x 16 RM	1.15	98	21.4	972
5 x 16 RE	1.15	98	22.4	1118
5 x 16 RM	1.15	98	23.2	1154
1 x 25 RM	0.727	177	11.3	313
2 x 25 RM	0.727	133	21.6	924
3 x 25 RM	0.727	133	23.2	1164
4 x 25 RM	0.727	133	25.4	1447
5 x 25 RM	0.727	133	30.3	1935
1 x 35 RM	0.524	217	12.8	422
3 x 35 RM	0.524	162	28.5	1713
4 x 35 RM	0.524	162	31.1	2113
5 x 35 RM	0.524	162	32.5	2454
1 x 50 RM	0.387	265	14.5	557
3 x 50 RM	0.387	197	31.9	2215
4 x 50 RM	0.387	197	35.1	2755
5 x 50 RM	0.387	197	38.1	3259

DATA-SHEET

PRAFlaTec® (N)HXH FE180/E90

PARAMETERS

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm)	Total weight (kg/km)
1 x 70 RM	0.268	336	16.6	770
3 x 70 RM	0.268	250	33.8	2510
4 x 70 RM	0.268	250	40.4	3801
5 x 70 RM	0.268	250	42.7	4298
1 x 95 RM	0.193	415	18.9	1049
3 x 95 RM	0.193	308	38.3	4275
4 x 95 RM	0.193	308	45.6	5066
5 x 95 RM	0.193	308	46.6	6127
1 x 120 RM	0.153	485	20.6	1299
3 x 120 RM	0.153	359	43.8	4796
4 x 120 RM	0.153	359	50	6262
5 x 120 RM	0.153	359	50.6	7740
1 x 150 RM	0.124	557	22.5	1582
3 x 150 RM	0.124	412	42.8	5805
4 x 150 RM	0.124	412	55.3	7702
5 x 150 RM	0.124	412	56.4	9675
1 x 185 RM	0.0991	646	24.6	1950
3 x 185 RM	0.0991	475	52.3	7159
4 x 185 RM	0.0991	475	56.3	8769
5 x 185 RM	0.0991	475	62.3	11932
1 x 240 RM	0.0754	774	27.8	2537
3 x 240 RM	0.0754	564	59.1	9288
4 x 240 RM	0.0754	564	68	11965

Technical changes reserved. All figures are therefore without guarantee.