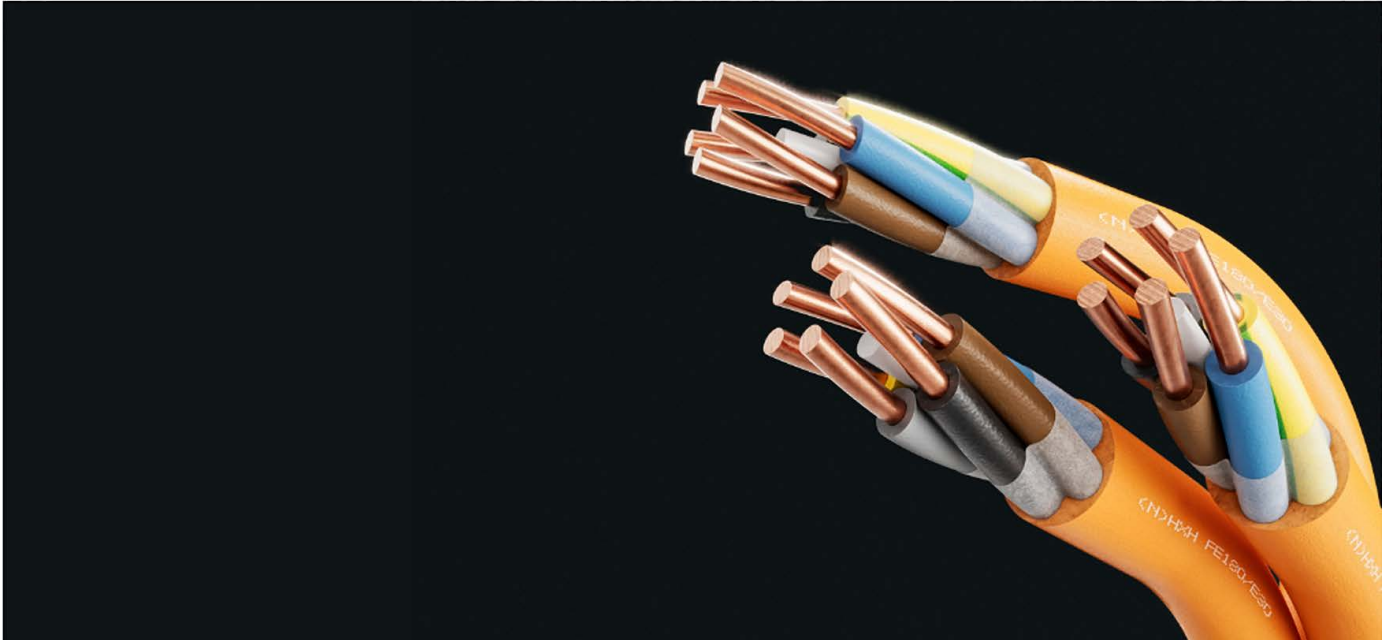


(N)HXH FE180/E30-E60 (VDE)

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



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. Not allowed for installations underground or in water. These cables are not UV-protected.

TECHNICAL DATA



Standard

adapted to DIN VDE 0266



Certificate

VDE Germany

Test Voltage

core/core 4 kV / 50 Hz

Rated Voltage

0,6/1 kV

Bending radius (min.)

12 x ϕ of cable (multicore)

15 x ϕ of cable (singlecore)

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

(N)HXH FE180/E30-E60 (VDE)

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	28	10.9	161
3 x 1.5 RE	12.1	24	11.4	182
4 x 1.5 RE	12.1	24	12.3	214
5 x 1.5 RE	12.1	16	13.3	247
7 x 1.5 RE	12.1	15.5	14.3	306
8 x 1.5 RE	12.1	15	15.9	357
10 x 1.5 RE	12.1	13	17.8	440
12 x 1.5 RE	12.1	12.5	18.3	483
14 x 1.5 RE	12.1	12	19.2	536
16 x 1.5 RE	12.1	11	20.2	595
19 x 1.5 RE	12.1	10.5	21.2	675
24 x 1.5 RE	12.1	9.5	24.7	868
27 x 1.5 RE	12.1	9	25.2	929
37 x 1.5 RE	12.1	8	28.3	1204
48 x 1.5 RE	12.1	7.5	32.5	1553
2 x 2.5 RE	7.41	37	11.7	195
3 x 2.5 RE	7.41	32	12.2	226
4 x 2.5 RE	7.41	32	13.2	268
5 x 2.5 RE	7.41	22	14.3	312
7 x 2.5 RE	7.41	20.5	15.5	393
10 x 2.5 RE	7.41	17.5	19.3	568
12 x 2.5 RE	7.41	16.5	19.9	630
14 x 2.5 RE	7.41	16	20.9	704
19 x 2.5 RE	7.41	14	23.2	896
24 x 2.5 RE	7.41	12.5	27.1	1158
30 x 2.5 RE	7.41	12	28.8	1361
37 x 2.5 RE	7.41	11	31.2	1636
48 x 2.5 RE	7.41	10	35.9	2120
1 x 4 RE	4.61	57	7.4	91
2 x 4 RE	4.61	49	12.5	239
3 x 4 RE	4.61	42	13.2	282
4 x 4 RE	4.61	42	14.3	338
5 x 4 RE	4.61	28	15.5	398

DATA-SHEET

(N)HXH FE180/E30-E60 (VDE)

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)
7 x 4 RE	4.61	27	16.8	506
12 x 4 RE	4.61	22	21.7	823
19 x 4 RE	4.61	18.5	25.3	1186
1 x 6 RE	3.08	73	7.9	113
2 x 6 RE	3.08	62	13.5	296
3 x 6 RE	3.08	53	14.2	357
4 x 6 RE	3.08	53	15.4	432
5 x 6 RE	3.08	36	16.8	512
7 x 6 RE	3.08	32	18.2	660
1 x 10 RE	1.83	99	8.7	156
2 x 10 RE	1.83	85	15.1	406
3 x 10 RE	1.83	74	15.9	503
4 x 10 RE	1.83	74	17.3	618
4 x 10 RM	1.83	74	17.8	635
5 x 10 RE	1.83	49	18.9	745
5 x 10 RM	1.83	49	19.5	766
7 x 10 RE	1.83	45	20.6	965
1 x 16 RE	1.15	131	9.6	216
2 x 16 RE	1.15	113	16.9	557
2 x 16 RM	1.15	113	17.4	578
3 x 16 RE	1.15	98	17.9	703
3 x 16 RM	1.15	98	18.4	727
4 x 16 RE	1.15	98	19.5	873
4 x 16 RM	1.15	98	20.1	901
5 x 16 RE	1.15	65	21.4	1063
5 x 16 RM	1.15	65	22	1096
7 x 16 RM	1.15	58	24	1430
1 x 25 RM	0.727	177	11.5	326
2 x 25 RM	0.727	153	21.1	875
3 x 25 RM	0.727	133	22.4	1102
3 x 25 + 16 RM/RM	0.727	133	23.6	1321
4 x 25 RM	0.727	133	24.5	1373
5 x 25 RM	0.727	90	26.9	1671

DATA-SHEET

(N)HXH FE180/E30-E60 (VDE)

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 35 RM	0.524	217	12.6	423
2 x 35 RM	0.524	187	23.2	1121
3 x 35 RM	0.524	162	24.7	1428
3 x 35 + 16 RM/RM	0.524	162	25.4	1683
3 x 35 + 25 RM/RM	0.524	162	26.5	1732
4 x 35 RM	0.524	162	27	1790
5 x 35 RM	0.524	109	29.9	2204
1 x 50 RM	0.387	265	14.4	560
3 x 50 RM	0.387	197	28.4	1905
3 x 50 + 25 RM/RM	0.387	197	29.9	2277
3 x 50 + 35 RM/RM	0.387	197	30.6	2342
4 x 50 RM	0.387	197	31.4	2406
5 x 50 RM	0.387	133	34.8	2958
1 x 70 RM	0.268	336	16.2	766
3 x 70 RM	0.268	250	32.3	2609
3 x 70 + 35 RM/RM	0.268	250	33.8	3113
3 x 70 + 50 RM/RM	0.268	250	34.9	3182
4 x 70 RM	0.268	250	35.8	3314
5 x 70 RM	0.268	180	39.7	4080
1 x 95 RM	0.193	415	18.4	1036
3 x 95 RM	0.193	308	37.1	3547
3 x 95 + 50 RM/RM	0.193	308	39.1	4229
4 x 95 RM	0.193	308	41.2	4511
5 x 95 RM	0.193	215	45.8	5563
1 x 120 RM	0.153	485	19.8	1272
3 x 120 RM	0.153	359	40.2	4352
3 x 120 + 50 RM/RM	0.153	359	41.6	5090
3 x 120 + 70 RM/RM	0.153	359	42.7	5218
4 x 120 RM	0.153	359	44.5	5533
5 x 120 RM	0.153	247	49.6	6840
1 x 150 RM	0.124	557	21.8	1557
3 x 150 RM	0.124	412	44.6	5344
3 x 150 + 70 RM/RM	0.124	412	46.4	6332

DATA-SHEET**(N)HXH FE180/E30-E60 (VDE)****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)
4 x 150 RM	0.124	412	49.5	6820
5 x 150 RM	0.124	279	55	8410
1 x 185 RM	0.0991	646	24	1927
1 x 240 RM	0.0754	774	27	2500

Technical changes reserved. All figures are therefore without guarantee.