

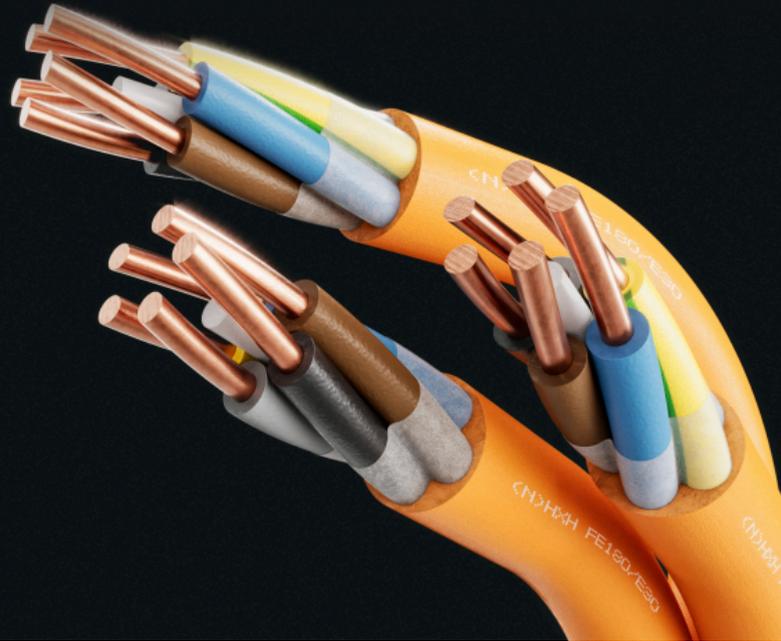


(N)HXH FE180/E30 (VDE)

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

SAFETY CABLES WITH CIRCUIT INTEGRITY

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

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)

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)	Standard lengths/packing (m)
2 x 1.5 RE	12.1	28	10.9	161	1000 D
3 x 1.5 RE	12.1	24	11.4	182	1000 D
4 x 1.5 RE	12.1	24	12.3	214	1000 D
5 x 1.5 RE	12.1	16	13.3	247	1000 D
7 x 1.5 RE	12.1	16	14.3	306	1000 D
8 x 1.5 RE	12.1	15	15.9	357	1000 D
10 x 1.5 RE	12.1	13	17.8	440	500 D
12 x 1.5 RE	12.1	13	18.3	483	500 D
14 x 1.5 RE	12.1	12	19.2	536	500 D
16 x 1.5 RE	12.1	11	20.2	595	500 D
19 x 1.5 RE	12.1	11	21.2	675	500 D
24 x 1.5 RE	12.1	10	24.7	868	500 D
27 x 1.5 RE	12.1	9	25.2	929	500 D
37 x 1.5 RE	12.1	8	28.3	1204	500 D
48 x 1.5 RE	12.1	8	32.5	1553	500 D
2 x 2.5 RE	7.41	37	11.7	195	1000 D
3 x 2.5 RE	7.41	32	12.2	226	1000 D
4 x 2.5 RE	7.41	32	13.2	268	1000 D
5 x 2.5 RE	7.41	22	14.3	312	1000 D
7 x 2.5 RE	7.41	21	15.5	393	1000 D
10 x 2.5 RE	7.41	18	19.3	568	500 D
12 x 2.5 RE	7.41	17	19.9	630	500 D
14 x 2.5 RE	7.41	16	20.9	704	500 D
19 x 2.5 RE	7.41	14	23.2	896	500 D
24 x 2.5 RE	7.41	13	27.1	1158	500 D
30 x 2.5 RE	7.41	12	28.8	1361	500 D
37 x 2.5 RE	7.41	11	31.2	1636	500 D
48 x 2.5 RE	7.41	10	35.9	2120	500 D
1 x 4 RE	4.61	57	7.4	91	1000 D
2 x 4 RE	4.61	49	12.5	239	1000 D
3 x 4 RE	4.61	42	13.2	282	1000 D
4 x 4 RE	4.61	42	14.3	338	1000 D
5 x 4 RE	4.61	28	15.5	398	1000 D
7 x 4 RE	4.61	27	16.8	506	500 D
12 x 4 RE	4.61	22	21.7	823	500 D
19 x 4 RE	4.61	19	25.3	1186	500 D
1 x 6 RE	3.08	73	7.9	113	1000 D
2 x 6 RE	3.08	62	13.5	296	1000 D
3 x 6 RE	3.08	53	14.2	357	1000 D
4 x 6 RE	3.08	53	15.4	432	1000 D
5 x 6 RE	3.08	36	16.8	512	1000 D
7 x 6 RE	3.08	32	18.2	660	500 D
1 x 10 RE	1.83	99	8.7	156	1000 D
2 x 10 RE	1.83	85	15.1	406	1000 D
3 x 10 RE	1.83	74	15.9	503	1000 D
4 x 10 RE	1.83	74	17.3	618	1000 D
4 x 10 RM	1.83	74	17.8	635	1000 D
5 x 10 RE	1.83	49	18.9	745	1000 D
5 x 10 RM	1.83	49	19.5	766	1000 D
7 x 10 RE	1.83	45	20.6	965	500 D
1 x 16 RE	1.15	131	9.6	216	500 D
2 x 16 RE	1.15	113	16.9	557	500 D



Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)	Standard lengths/packing (m)
2 x 16 RM	1.15	113	17.4	578	500 D
3 x 16 RE	1.15	98	17.9	703	500 D
3 x 16 RM	1.15	98	18.4	727	500 D
4 x 16 RE	1.15	98	19.5	873	500 D
4 x 16 RM	1.15	98	20.1	901	500 D
5 x 16 RE	1.15	65	21.4	1063	500 D
5 x 16 RM	1.15	65	22.0	1096	500 D
7 x 16 RM	1.15	58	24.0	1430	500 D
1 x 25 RM	0.727	177	11.5	326	500 D
2 x 25 RM	0.727	153	21.1	875	500 D
3 x 25 RM	0.727	133	22.4	1102	500 D
3 x 25 + 16 RM/RM	0.727	133	23.6	1321	500 D
4 x 25 RM	0.727	133	24.5	1373	500 D
5 x 25 RM	0.727	90	26.9	1671	500 D
1 x 35 RM	0.524	217	12.6	423	500 D
2 x 35 RM	0.524	187	23.2	1121	500 D
3 x 35 RM	0.524	162	24.7	1428	500 D
3 x 35 + 16 RM/RM	0.524	162	25.4	1683	500 D
3 x 35 + 25 RM/RM	0.524	162	26.5	1732	500 D
4 x 35 RM	0.524	162	27.0	1790	500 D
5 x 35 RM	0.524	109	29.9	2204	500 D
1 x 50 RM	0.387	265	14.4	560	500 D
3 x 50 RM	0.387	197	28.4	1905	500 D
3 x 50 + 25 RM/RM	0.387	197	29.9	2277	500 D
3 x 50 + 35 RM/RM	0.387	197	30.6	2342	500 D
4 x 50 RM	0.387	197	31.4	2406	500 D
5 x 50 RM	0.387	133	34.8	2958	500 D
1 x 70 RM	0.268	336	16.2	766	500 D
3 x 70 RM	0.268	250	32.3	2609	500 D
3 x 70 + 35 RM/RM	0.268	250	33.8	3113	500 D
3 x 70 + 50 RM/RM	0.268	250	34.9	3182	500 D
4 x 70 RM	0.268	250	35.8	3314	500 D
5 x 70 RM	0.268	180	39.7	4080	500 D
1 x 95 RM	0.193	415	18.4	1036	500 D
3 x 95 RM	0.193	308	37.1	3547	500 D
3 x 95 + 50 RM/RM	0.193	308	39.1	4229	500 D
4 x 95 RM	0.193	308	41.2	4511	500 D
5 x 95 RM	0.193	215	45.8	5563	500 D
1 x 120 RM	0.153	485	19.8	1272	500 D
3 x 120 RM	0.153	359	40.2	4352	500 D
3 x 120 + 50 RM/RM	0.153	359	41.6	5090	500 D
3 x 120 + 70 RM/RM	0.153	359	42.7	5218	500 D
4 x 120 RM	0.153	359	44.5	5533	500 D
5 x 120 RM	0.153	247	49.6	6840	500 D
1 x 150 RM	0.124	557	21.8	1557	500 D
3 x 150 RM	0.124	412	44.6	5344	500 D
3 x 150 + 70 RM/RM	0.124	412	46.4	6332	500 D
4 x 150 RM	0.124	412	49.5	6820	500 D
5 x 150 RM	0.124	279	55.0	8410	500 D
1 x 185 RM	0.099	646	24.0	1927	500 D
4 x 185 RM	0.099	480	59.8	9704	500 D
1 x 240 RM	0.075	774	27.0	2500	500 D



Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)	Standard lengths/packing (m)
3 x 240 + 120 RM/ RM	0.153	565	58.8	11000	500 D
1 x 300 RM	0.060	697	30.0	3300	500 D, 1000D

CONTACT PERSON

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