We Make Modern Life Possible

SAFETY CABLES

(N)HXH FE180/E30 (VDE)

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

TECHNICAL DATA

Standard
adapted to DIN VDE 0266

Rated Voltage
0,6/1 kV

Test Voltage
core/core 4 kV / 50 Hz

Bending radius (min.)
12 x Ø of cable (multicore)
15 x Ø of cable (singlecore)

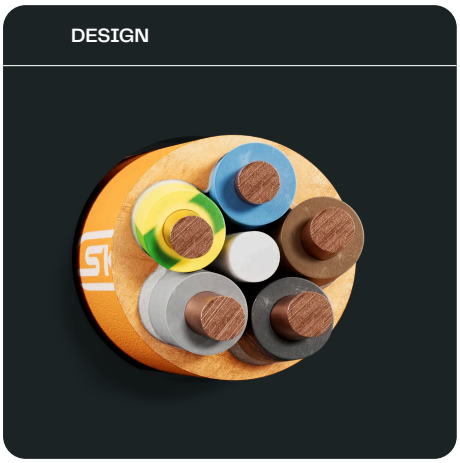
Core identification
HD 308 S2

Fire properties
EN 60332-1-2: flame retardant and self-extinguishing
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

Certificate
VDE Germany

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)

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Number of cores x nominal cross-section (mm²)	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

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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
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

Number of cores x nominal cross-section (mm²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)	Standard lengths/packing (m)
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
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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