



We Make Modern
Life Possible

SAFETY CABLES

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

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



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 $\varnothing$ of cable (multicore)
15 x $\varnothing$ 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

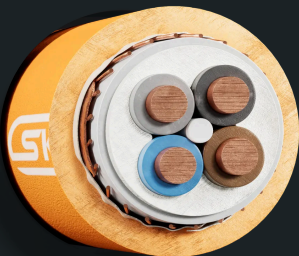


Certificate
VDE Germany



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 tape and halogen free polymer compound)

4

Concentric screen (bare copper wires), counter helix (copper tape) and halogen-free plastic tape

5

Sheath (halogen-free polymer compound, orange)

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 appr. (mm)	Total weight appr. (kg/km)
2 x 1.5 RE / 1.5	12.1	28	14.0	249
3 x 1.5 RE / 1.5	12.1	25	14.5	274
4 x 1.5 RE / 1.5	12.1	25	15.4	309
5 x 1.5 RE / 1.5	12.1	16	16.4	348
7 x 1.5 RE / 2.5	12.1	16	17.4	420
10 x 1.5 RE / 2.5	12.1	13	20.9	572
12 x 1.5 RE / 2.5	12.1	13	21.4	618
14 x 1.5 RE / 2.5	12.1	12	22.3	676
19 x 1.5 RE / 4	12.1	11	24.3	831
24 x 1.5 RE / 6	12.1	10	28.5	1091
30 x 1.5 RE / 6	12.1	9	30.0	1245
40 x 1.5 RE / 10	12.1	8	33.9	1590
2 x 2.5 RE / 2.5	7.41	37	14.8	296
3 x 2.5 RE / 2.5	7.41	33	15.4	330
4 x 2.5 RE / 2.5	7.41	33	16.3	376
5 x 2.5 RE / 2.5	7.41	22	17.4	427
7 x 2.5 RE / 2.5	7.41	21	18.6	513
10 x 2.5 RE / 4	7.14	18	23.0	732
12 x 2.5 RE / 4	7.14	17	23.6	798
14 x 2.5 RE / 6	7.14	15	24.6	898
19 x 2.5 RE / 6	7.14	14	26.9	1103
24 x 2.5 RE / 10	7.14	13	31.5	1443
30 x 2.5 RE / 10	7.14	12	33.2	1657
40 x 2.5 RE / 10	7.14	11	37.0	2084
2 x 4 RE / 4	4.61	49	16.2	362
3 x 4 RE / 4	4.61	43	16.9	409
4 x 4 RE / 4	4.61	43	18.0	471
5 x 4 RE / 4	4.61	28	19.2	537
7 x 4 RE / 4	4.61	27	20.5	651
10 x 4 RE / 6	4.61	27	24.7	930
12 x 4 RE / 6	4.61	27	25.4	1022
14 x 4 RE / 6	4.61	27	26.5	1129
19 x 4 RE / 10	4.61	25	29.6	1452
2 x 6 RE / 6	3.08	62	17.2	445
3 x 6 RE / 6	3.08	54	18.0	510
4 x 6 RE / 6	3.08	54	19.1	591
5 x 6 RE / 6	3.08	36	20.5	678
2 x 10 RE / 10	1.83	85	19.2	600
3 x 10 RE / 10	1.83	75	20.1	701
4 x 10 RE / 10	1.83	75	21.4	824
5 x 10 RE / 10	1.83	49	23.1	962
2 x 16 RM / 16	1.15	113	21.5	834
3 x 16 RM / 16	1.15	100	22.5	992
4 x 16 RM / 16	1.15	100	24.2	1175



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 appr. (mm)	Total weight appr. (kg/km)
5 x 16 RM / 16	1.15	65	26.1	1380
1 x 25 RM / 16	0.727	152	15.2	535
3 x 25 RM / 16	0.727	136	26.5	1388
4 x 25 RM / 16	0.727	136	28.6	1670
5 x 25 RM / 16	0.727	90	31.2	1997
1 x 35 RM / 16	0.524	217	16.4	640
3 x 35 RM / 16	0.524	165	28.9	1733
4 x 35 RM / 16	0.524	165	31.3	2117
5 x 35 RM / 16	0.524	165	34.3	2558
1 x 50 RM / 16	0.387	265	18.2	786
3 x 50 RM / 25	0.387	201	32.8	2326
4 x 50 RM / 25	0.387	201	35.9	2855
5 x 50 RM / 25	0.387	201	39.4	3441
3 x 70 RM / 35	0.268	255	38.1	3171
4 x 70 RM / 35	0.268	255	41.6	3902
5 x 70 RM / 35	0.268	255	45.6	4707
3 x 95 RM / 50	0.193	314	43.0	4261
4 x 95 RM / 50	0.193	314	47.1	5266
5 x 95 RM / 50	0.193	314	51.8	6366
3 x 120 RM / 70	0.153	364	46.1	5277
4 x 120 RM / 70	0.153	364	50.6	6526
5 x 120 RM / 70	0.153	364	55.9	7901
1 x 150 RM / 16	0.124	557	25.7	1828
3 x 150 RM / 70	0.124	416	50.7	6338
4 x 150 RM / 70	0.124	416	55.8	7880
5 x 150 RM / 70	0.124	416	61.5	9534
3 x 185 RM / 95	0.099	480	56.5	8001
4 x 185 RM / 95	0.099	480	62.1	9896
4 x 240 RM / 120	0.075	565	69.5	12673

CONTACT PERSON

Dogan Özcan, MSc
 Head of Technical Department
 +43 (0) 1 70170-154
 dogan.oezcan@skw.at

