



We Make Modern
Life Possible

HALOGEN-FREE POWER CABLES

N2XH B2ca

XLPE/FRNC copper energy cable, halogen-free



TECHNICAL DATA



Standard
DIN VDE 0276-604



Rated Voltage
0.6/1 kV



Test Voltage
core/core 4 kV / 50 Hz



Bending radius (min.)
12 x $\varnothing$ of cable



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 61034-2: low smoke emission
EN 60332-3-22: reduced flame propagation



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), round stranded (RM) resp. sector-shaped stranded (SM)



2 Core insulation (XLPE)



3 Inner covering (halogen-free tape and halogen free polymer compound)



4 Sheath (halogen-free polymer compound black)

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)
2 x 1.5 RE	12.1	28	9.8	136
3 x 1.5 RE	12.1	24	10.3	153
4 x 1.5 RE	12.1	24	11.0	177
5 x 1.5 RE	12.1	16	11.8	203
7 x 1.5 RE	12.1	16	12.7	247
10 x 1.5 RE	12.1	14	15.7	362
12 x 1.5 RE	12.1	13	16.2	395
14 x 1.5 RE	12.1	13	16.9	436
19 x 1.5 RE	12.1	11	19.0	650
24 x 1.5 RE	12.1	10	22.0	760
30 x 1.5 RE	12.1	9	23.2	900
40 x 1.5 RE	12.1	8	26.0	1200
2 x 2.5 RE	7.41	37	10.6	168
3 x 2.5 RE	7.41	37	11.1	194
4 x 2.5 RE	7.41	32	11.9	228
5 x 2.5 RE	7.41	22	12.9	265
7 x 2.5 RE	7.41	21	14.1	336
10 x 2.5 RE	7.41	19	17.3	483
12 x 2.5 RE	7.41	17	17.8	533
14 x 2.5 RE	7.41	16	18.6	593
2 x 4 RE	4.61	49	11.5	210
3 x 4 RE	4.61	42	12.1	248
4 x 4 RE	4.61	42	13.0	295
5 x 4 RE	4.61	28	14.2	353
7 x 4 RE	4.61	27	15.3	444
12 x 4 RE	4.61	27	19.9	731
14 x 4 RE	4.61	27	20.8	817
2 x 6 RE	3.08	62	12.4	266
3 x 6 RE	3.08	53	13.1	320
4 x 6 RE	3.08	53	14.3	393
5 x 6 RE	3.08	36	15.5	463
7 x 6 RE	3.08	36	16.8	592
2 x 10 RE	1.83	85	14.4	389
3 x 10 RE	1.83	74	15.3	478
4 x 10 RE	1.83	74	16.5	583
5 x 10 RE	1.83	49	18.0	700
5 x 10 RM	1.83	49	18.5	723
7 x 10 RE	1.83	49	19.8	914
1 x 16 RM	1.15	131	10.5	233
2 x 16 RE	1.15	113	16.3	540
3 x 16 RE	1.15	98	17.2	677
4 x 16 RE	1.15	98	19.0	850
4 x 16 RM	1.15	98	19.6	877
5 x 16 RE	1.15	65	20.7	1025



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)
5 x 16 RM	1.15	65	21.4	1058
1 x 25 RM	0.727	177	12.0	335
3 x 25 RM	0.727	133	21.4	1061
3 x 25 + 16 RM/RM	0.727	133	22.5	1211
4 x 25 RM	0.727	133	23.3	1315
5 x 25 RM	0.727	133	25.8	1605
1 x 35 RM	0.524	217	13.3	439
3 x 35 RM	0.524	162	23.7	1387
3 x 35 + 16 SM/RM	0.524	162	24.2	1486
4 x 35 RM	0.524	162	26.1	1742
4 x 35 SM	0.524	162	24.2	1599
5 x 35 RM	0.524	162	28.6	2111
1 x 50 RM	0.387	265	14.7	567
3 x 50 + 25 SM/RM	0.387	197	27.5	1968
4 x 50 SM	0.387	197	27.7	2107
4 x 50 RM	0.387	197	29.5	2290
5 x 50 RM	0.387	197	32.9	2826
1 x 70 RM	0.268	336	16.7	777
3 x 70 SM	0.268	250	28.5	2263
3 x 70 + 35 SM/RM	0.268	250	31.2	2740
4 x 70 SM	0.268	250	31.2	2942
5 x 70 RM	0.268	250	38.5	3984
5 x 70 SM	0.268	250	34.8	3658
1 x 95 RM	0.193	415	18.4	1028
3 x 95 SM	0.193	308	31.3	3023
3 x 95 + 50 SM/RM	0.193	308	35.6	3675
4 x 95 SM	0.193	308	35.6	3959
5 x 95 SM	0.193	308	37.9	4921
1 x 120 RM	0.153	485	20.2	1279
3 x 120 SM	0.153	359	34.1	3731
3 x 120 + 70 SM/RM	0.153	359	39.1	4615
4 x 120 SM	0.153	359	39.3	4956
5 x 120 SM	0.153	359	43.3	6148
1 x 150 RM	0.124	557	22.1	1556
3 x 150 SM	0.124	412	38.1	4600
3 x 150 + 70 SM/RM	0.124	412	43.9	5600
4 x 150 SM	0.124	412	44.1	6078
5 x 150 SM	0.124	412	47.9	7556
1 x 185 RM	0.099	646	24.4	1927
3 x 185 SM	0.099	475	41.9	5695
3 x 185 + 95 SM/SM	0.099	475	44.4	6705
4 x 185 SM	0.099	475	49.3	7567
5 x 185 SM	0.099	475	54.0	9412
1 x 240 RM	0.075	774	27.0	2473



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)
3 x 240 SM	0.075	564	46.7	7370
3 x 240 + 120 SM/SM	0.075	564	50.0	8624
4 x 240 SM	0.075	564	54.7	9771
5 x 240 SM	0.075	564	63.5	12220
1 x 300 RM	0.060	901	29.4	3049
1 x 400 RM	0.047	1060	33.4	3885
1 x 500 RM	0.037	1252	37.2	4941
1 x 630 RM	0.028	1486	41.4	6299

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