We Make Modern Life Possible.

HALOGEN-FREE POWER CABLES

N2XH B2ca

XLPE/FRNC copper energy cable, halogen-free

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 if circuit integrity is not required. Not allowed for installations underground or in water.



TECHNICAL DATA

Standard
DIN VDE 0276-604

Certificate
VDE Germany

Test Voltage
core/core 4 kV / 50 Hz

Rated Voltage
0.6/1 kV

Bending radius (min.)
12 x Ø of cable

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

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), 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 (mm²)	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

Technical changes reserved. All figures are therefore without guarantee.

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