We Make Modern Life Possible.

POWER CABLES AND OVERHEAD LINES 0.6/1 KV

N2XCH – B2ca/Cca

XLPE/FRNC energy cable, halogen-free, screened

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 (Uo/U)

Bending radius (min.)
12 x Ø of cable

Fire properties
EN 60332-1-2: self-extinguishing
EN 60754-2: halogen-free, non-corrosive combustion gases
EN 61034-2: low smoke emission
EN 60332-3-22: reduced flame propagation
EN 13501-6: fire classification
CPR: B2ca s1 d1 a1

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 polymer compound)
4. Concentric screen (bare copper wires), counter helix (copper tape) and halogen-free plastic tape
5. Sheath (halogen-free polymer compound black)

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Number of cores x nominal cross-section / cross-section of screen (mm²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)	CPR Classification
2 x 1.5 RE / 1.5	12.1	28	13.2	224	B2ca, Cca
3 x 1.5 RE / 1.5	12.1	25	13.6	244	B2ca, Cca
4 x 1.5 RE / 1.5	12.1	25	14.3	272	B2ca, Cca
5 x 1.5 RE / 1.5	12.1	16	15.4	311	B2ca, Cca
7 x 1.5 RE / 2.5	12.1	16	16.2	369	B2ca, Cca
10 x 1.5 RE / 2.5	12.1	13	19.1	494	B2ca, Cca
12 x 1.5 RE / 2.5	12.1	13	19.5	530	B2ca, Cca
12 x 1.5 RE / 16	12.1	13	20.8	670	B2ca, Cca
16 x 1.5 RE / 4	12.1	12	22.0	658	B2ca, Cca
24 x 1.5 RE / 6	12.1	10	25.7	925	B2ca, Cca
2 x 2.5 RE / 2.5	7.41	37	13.9	270	B2ca, Cca
3 x 2.5 RE / 2.5	7.41	33	14.4	299	B2ca, Cca
4 x 2.5 RE / 2.5	7.41	33	15.5	345	B2ca, Cca
4 x 2.5 RE / 16	7.41	33	16.5	470	B2ca, Cca
5 x 2.5 RE / 2.5	7.41	22	16.4	387	B2ca, Cca
7 x 2.5 RE / 2.5	7.41	21	17.4	458	B2ca, Cca
7 x 2.5 RE / 16	7.41	21	18.4	583	B2ca, Cca
10 x 2.5 RE / 4	7.41	18	21.5	657	B2ca, Cca
12 x 2.5 RE / 4	7.41	17	22.0	711	B2ca, Cca
16 x 2.5 RE / 6	7.41	15	23.8	875	B2ca, Cca
19 x 2.5 RE / 6	7.41	14	24.7	972	B2ca, Cca
19 x 2.5 RE / 16	7.41	14	25.1	1055	B2ca, Cca
21 x 2.5 RE / 10	7.41	13	26.4	1074	B2ca, Cca
24 x 2.5 RE / 10	7.41	13	28.6	1253	B2ca, Cca
2 x 4 RE / 4	4.61	49	15.6	342	B2ca, Cca
3 x 4 RE / 4	4.61	43	16.2	383	B2ca, Cca
4 x 4 RE / 4	4.61	43	17.1	436	B2ca, Cca
4 x 4 RE / 16	4.61	43	17.5	543	B2ca, Cca
5 x 4 RE / 4	4.61	28	18.1	494	B2ca, Cca
7 x 4 RE / 4	4.61	27	19.2	592	B2ca, Cca
12 x 4 RE / 6	4.61	22	23.8	933	B2ca, Cca
2 x 6 RE / 6	3.08	62	16.6	425	B2ca, Cca
3 x 6 RE / 6	3.08	54	17.2	482	B2ca, Cca
4 x 6 RE / 6	3.08	54	18.3	555	B2ca, Cca
4 x 6 RE / 16	3.08	54	18.7	642	B2ca, Cca
5 x 6 RE / 6	3.08	36	19.5	632	B2ca, Cca
7 x 6 RE / 6	3.08	34	21.0	783	B2ca, Cca
2 x 10 RE / 10	1.83	85	18.8	588	B2ca, Cca
3 x 10 RE / 10	1.83	75	19.6	682	B2ca, Cca
4 x 10 RE / 10	1.83	75	21.1	810	B2ca, Cca
5 x 10 RE / 10	1.83	49	22.6	939	B2ca, Cca
7 x 10 RE / 10	1.83	48	24.1	1150	B2ca, Cca
2 x 16 RE / 16	1.15	113	20.9	816	B2ca, Cca
4 x 16 RE / 16	1.15	100	23.3	1130	B2ca, Cca

Number of cores x nominal cross-section / cross-section of screen (mm²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)	CPR Classification
5 x 16 RE / 16	1.15	65	25.0	1316	B2ca, Cca
5 x 16 RM / 16	1.15	65	25.7	1353	B2ca, Cca
2 x 25 RM / 16	0.727	152	24.5	1131	B2ca, Cca
3 x 25 RM / 16	0.727	136	25.7	1356	B2ca, Cca
4 x 25 RM / 16	0.727	136	27.8	1635	B2ca, Cca
5 x 25 RM / 16	0.727	90	30.1	1929	B2ca, Cca
2 x 35 RM / 16	0.524	186	26.8	1403	B2ca, Cca
3 x 35 RM / 16	0.524	165	28.2	1710	B2ca, Cca
3 x 35 RM / 25	0.524	165	28.2	1787	B2ca, Cca
4 x 35 RM / 16	0.524	165	30.4	2067	B2ca, Cca
1 x 50 RM / 25	0.387	201	29.3	2021	B2ca, Cca
3 x 50 SM / 25	0.387	201	30.5	2224	B2ca, Cca
4 x 50 SM / 25	0.387	201	32.0	2521	B2ca, Cca
3 x 70 SM / 35	0.268	255	33.9	2779	B2ca, Cca
3 x 70 SM / 70	0.268	255	34.2	3098	B2ca, Cca
4 x 70 SM / 35	0.268	255	37.8	3577	B2ca, Cca
1 x 95 RM / 16	0.193	415	23.0	1320	B2ca, Cca
3 x 95 SM / 50	0.193	314	37.7	3741	B2ca, Cca
4 x 95 SM / 50	0.193	314	42.1	4733	B2ca, Cca
1 x 120 RM / 16	0.153	485	24.5	1567	B2ca, Cca
3 x 120 SM / 70	0.153	364	40.7	4680	B2ca, Cca
4 x 120 SM / 70	0.153	364	45.8	5952	B2ca, Cca
3 x 150 SM / 70	0.124	416	44.7	5586	B2ca, Cca
4 x 150 SM / 70	0.124	416	50.7	7121	B2ca, Cca
3 x 185 SM / 95	0.099	480	49.3	7022	B2ca, Cca
4 x 185 SM / 95	0.099	480	57.1	9015	B2ca, Cca
1 x 240 RM / 16	0.075	774	31.5	2819	B2ca, Cca
3 x 240 SM / 120	0.075	565	54.4	8990	B2ca, Cca
4 x 240 SM / 120	0.075	565	62.6	11488	B2ca, Cca
1 x 300 RM / 16	0.06	901	33.9	3412	B2ca, Cca
1 x 400 RM / 35	0.047	1060	39.1	4461	B2ca, Cca
1 x 500 RM / 16	0.037	1252	42.4	5427	B2ca, Cca

Technical changes reserved. All figures are therefore without guarantee.



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