

LOW VOLTAGE CABLES 0,6/1 kV

N2XCH

XLPE/FRNC energy cable, halogen-free,
screened



TECHNICAL DATA



Standard
DIN VDE 0276-604



Certificate
VDE Germany



Test Voltage
core/core 4 kV / 50 Hz



Rated Voltage
0,6/1 kV (U₀/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



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)

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)	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 (mm ²)	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

CONTACT PERSON

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