

LOW VOLTAGE CABLES 0,6/1 kV

N2XH

XLPE/FRNC copper energy cable, halogen-free



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: 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 tape and halogen free
polymer compound)



4 Sheath (halogen-free polymer compound black)

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)	CPR Classification
2 x 1.5 RE	12.1	28	10.1	139	B2ca, Dca
3 x 1.5 RE	12.1	24	10.5	156	B2ca, Dca
4 x 1.5 RE	12.1	24	11.2	180	B2ca, Dca
5 x 1.5 RE	12.1	18	11.9	202	B2ca, Dca
7 x 1.5 RE	12.1	16	12.8	246	Dca
10 x 1.5 RE	12.1	13	16.9	408	Dca
12 x 1.5 RE	12.1	12	17.4	442	Dca
14 x 1.5 RE	12.1	12	18.1	485	Dca
2 x 2.5 RE	7.41	37	10.8	172	B2ca, Dca
3 x 2.5 RE	7.41	32	11.3	197	B2ca, Dca
4 x 2.5 RE	7.41	32	12.1	230	B2ca, Dca
5 x 2.5 RE	7.41	24	13.3	273	B2ca, Dca
7 x 2.5 RE	7.41	21	14.1	333	Dca
10 x 2.5 RE	7.41	18	18.5	532	Dca
12 x 2.5 RE	7.41	16	19.0	584	Dca
14 x 2.5 RE	7.41	16	19.8	645	Dca
2 x 4 RE	4.61	48	11.6	210	B2ca, Dca
3 x 4 RE	4.61	42	12.3	251	B2ca, Dca
4 x 4 RE	4.61	42	13.4	304	B2ca, Dca
5 x 4 RE	4.61	32	14.4	356	B2ca, Dca
7 x 4 RE	4.61	27	15.4	442	Dca
12 x 4 RE	4.61	21	21.1	789	Dca
14 x 4 RE	4.61	21	22.0	878	Dca
2 x 6 RE	3.08	60	12.5	266	B2ca, Dca
3 x 6 RE	3.08	53	13.5	329	B2ca, Dca
4 x 6 RE	3.08	53	14.4	391	B2ca, Dca
5 x 6 RE	3.08	39	15.8	467	B2ca, Dca
7 x 6 RE	3.08	34	16.9	590	Dca
2 x 10 RE	1.83	85	15.8	438	B2ca, Dca
3 x 10 RE	1.83	74	16.6	528	B2ca, Dca
4 x 10 RE	1.83	74	17.8	637	B2ca, Dca
5 x 10 RE	1.83	49	19.6	773	B2ca, Dca
5 x 10 RM	1.83	49	20.1	798	B2ca, Dca
7 x 10 RE	1.83	49	21.0	971	Dca
1 x 16 RM	1.15	131	12.7	297	B2ca, Cca
2 x 16 RE	1.15	113	17.6	595	B2ca, Dca
3 x 16 RE	1.15	98	18.5	733	B2ca, Dca
3 x 16 RM	1.15	98	19.0	758	B2ca
4 x 16 RE	1.15	98	20.3	911	B2ca, Dca
4 x 16 RM	1.15	98	20.9	941	B2ca, Dca
5 x 16 RE	1.15	74	22.0	1092	B2ca, Dca
5 x 16 RM	1.15	74	22.6	1119	Dca
1 x 25 RM	0.727	177	14.3	409	B2ca, Cca
3 x 25 RM	0.727	133	23.2	1153	B2ca, Dca



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)	CPR Classification
3 x 25 + 16 RM/RM	0.727 / 1.15	133	24.3	1317	B2ca, Dca
4 x 25 RM	0.727	133	25.2	1415	B2ca, Dca
5 x 25 RM	0.727	100	27.6	1718	B2ca, Dca
1 x 35 RM	0.524	217	15.5	520	B2ca, Cca
3 x 35 RM	0.524	162	25.5	1488	B2ca, Dca
3 x 35 + 16 SM/RM	0.524 / 1.15	162	25.4	1552	B2ca, Cca
4 x 35 RM	0.524	162	27.9	1853	B2ca, Dca
4 x 35 SM	0.524	162	25.4	1665	B2ca, Cca
5 x 35 RM	0.524	122	30.5	2237	B2ca, Dca
1 x 50 RM	0.387	265	16.9	655	B2ca, Cca
3 x 50 + 25 SM/RM	0.387 / 0.727	197	28.7	2046	B2ca, Cca
4 x 50 SM	0.387	197	28.9	2186	B2ca, Cca
4 x 50 RM	0.387	197	31.5	2429	B2ca, Dca
5 x 50 RM	0.387	148	34.8	2984	B2ca, Dca
1 x 70 RM	0.268	336	18.9	875	B2ca, Cca
3 x 70 SM	0.268	250	29.9	2361	B2ca, Cca
3 x 70 + 35 SM/RM	0.268 / 0.524	250	32.6	2845	B2ca, Cca
4 x 70 SM	0.268	250	32.6	3049	B2ca, Cca
5 x 70 RM	0.268	188	39.9	4115	Dca
1 x 95 RM	0.193	415	20.6	1136	B2ca, Cca
3 x 95 SM	0.193	308	32.7	3131	B2ca, Cca
3 x 95 + 50 SM/RM	0.193 / 0.387	308	37.0	3800	B2ca, Cca
4 x 95 SM	0.193	308	37.0	4080	B2ca, Cca
1 x 120 RM	0.153	485	22.3	1397	B2ca, Cca
3 x 120 SM	0.153	359	35.5	3848	B2ca, Cca
3 x 120 + 70 SM/RM	0.153 / 0.268	359	40.5	4748	B2ca, Cca
4 x 120 SM	0.153	359	40.9	5111	B2ca, Cca
1 x 150 RM	0.124	557	24.2	1684	B2ca, Cca
3 x 150 SM	0.124	412	39.7	4753	B2ca, Cca
3 x 150 + 70 SM/RM	0.124 / 0.268	412	45.5	5774	B2ca, Cca
4 x 150 SM	0.124	412	45.7	6253	B2ca, Cca
1 x 185 RM	0.099	646	26.5	2068	B2ca, Cca
3 x 185 SM	0.099	475	43.5	5863	B2ca, Cca
3 x 185 + 95 SM/SM	0.099 / 0.193	475	46.0	6881	B2ca, Cca
4 x 185 SM	0.099	475	51.1	7790	B2ca, Cca
1 x 240 RM	0.075	774	29.1	2629	B2ca, Cca
3 x 240 SM	0.075	564	48.5	7583	B2ca, Cca
3 x 240 + 120 SM/SM	0.075 / 0.153	564	51.8	8851	B2ca, Cca
4 x 240 SM	0.075	564	56.5	10018	B2ca, Cca
1 x 300 RM	0.060	901	31.6	3219	B2ca, Cca
1 x 400 RM	0.047	1060	35.3	4058	B2ca, Cca
1 x 500 RM	0.037	1252	39.1	5132	B2ca, Cca



CONTACT PERSON

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