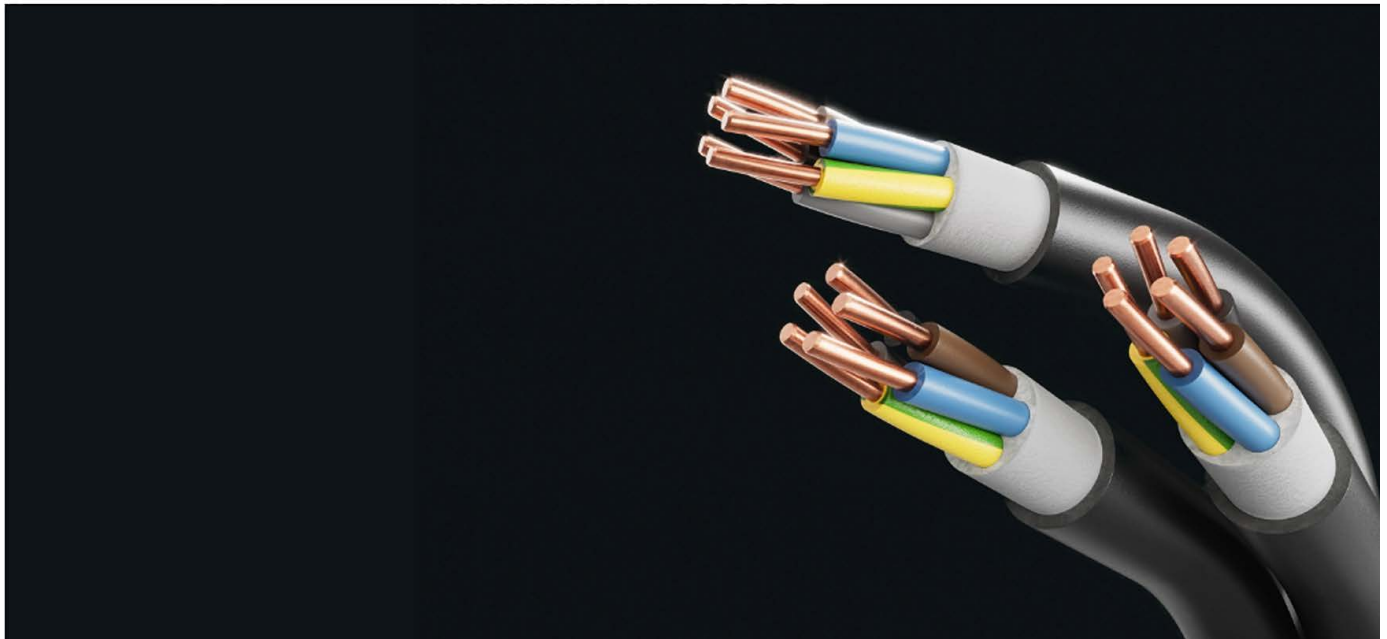


N2XH

XLPE/FRNC copper energy cable, halogen-free



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)

APPLICATION

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: 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

DATA-SHEET

N2XH

PARAMETERS

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm)	Total weight (kg/km)	CPR Classification
2 x 1.5 RE	12.1	28	9.8	136	B2ca, Dca
3 x 1.5 RE	12.1	24	10.3	153	B2ca, Dca
4 x 1.5 RE	12.1	24	11	177	B2ca, Dca
5 x 1.5 RE	12.1	16	11.8	203	B2ca, Dca
7 x 1.5 RE	12.1	15.5	12.7	247	Dca
10 x 1.5 RE	12.1	14	15.7	362	Dca
12 x 1.5 RE	12.1	12.5	16.2	395	Dca
14 x 1.5 RE	12.1	12.5	16.9	436	Dca
2 x 2.5 RE	7.41	37	10.6	168	B2ca, Dca
3 x 2.5 RE	7.41	37	11.1	194	B2ca, Dca
4 x 2.5 RE	7.41	32	11.9	228	B2ca, Dca
5 x 2.5 RE	7.41	22	12.9	265	B2ca, Dca
7 x 2.5 RE	7.41	20.5	14.1	336	Dca
10 x 2.5 RE	7.41	19	17.3	483	Dca
12 x 2.5 RE	7.41	16.5	17.8	533	Dca
14 x 2.5 RE	7.41	16	18.6	593	Dca
2 x 4 RE	4.61	49	11.5	210	B2ca, Dca
3 x 4 RE	4.61	42	12.1	248	B2ca, Dca
4 x 4 RE	4.61	42	13	295	B2ca, Dca
5 x 4 RE	4.61	28	14.2	353	B2ca, Dca
7 x 4 RE	4.61	27	15.3	444	Dca
12 x 4 RE	4.61	27	19.9	731	Dca
14 x 4 RE	4.61	27	20.8	817	Dca
2 x 6 RE	3.08	62	12.4	266	B2ca, Dca
3 x 6 RE	3.08	53	13.1	320	B2ca, Dca
4 x 6 RE	3.08	53	14.3	393	B2ca, Dca
5 x 6 RE	3.08	36	15.5	463	B2ca, Dca
7 x 6 RE	3.08	36	16.8	592	Dca
2 x 10 RE	1.83	85	14.4	389	B2ca, Dca
3 x 10 RE	1.83	74	15.3	478	B2ca, Dca
4 x 10 RE	1.83	74	16.5	583	B2ca, Dca
5 x 10 RE	1.83	49	18	700	B2ca, Dca
5 x 10 RM	1.83	49	18.5	723	B2ca, Dca

DATA-SHEET

N2XH

PARAMETERS

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm)	Total weight (kg/km)	CPR Classification
7 x 10 RE	1.83	49	19.8	914	Dca
1 x 16 RM	1.15	131	10.5	233	B2ca, Cca
2 x 16 RE	1.15	113	16.3	540	B2ca, Dca
3 x 16 RE	1.15	98	17.2	677	B2ca, Dca
4 x 16 RE	1.15	98	19	850	B2ca, Dca
4 x 16 RM	1.15	98	19.6	877	B2ca, Dca
5 x 16 RE	1.15	65	20.7	1025	B2ca, Dca
5 x 16 RM	1.15	65	21.4	1058	Dca
1 x 25 RM	0.727	177	12	335	B2ca, Cca
3 x 25 RM	0.727	133	21.4	1061	B2ca, Dca
3 x 25 + 16 RM/RM	0.727 / 1,15	133	22.5	1211	B2ca, Dca
4 x 25 RM	0.727	133	23.3	1315	B2ca, Dca
5 x 25 RM	0.727	133	25.8	1605	B2ca, Dca
1 x 35 RM	0.524	217	13.3	439	B2ca, Cca
3 x 35 RM	0.524	162	23.7	1387	B2ca, Dca
3 x 35 + 16 SM/RM	0.524 / 1,15	162	24.2	1486	B2ca, Cca
4 x 35 RM	0.524	162	26.1	1742	B2ca, Dca
4 x 35 SM	0.524	162	24.2	1599	B2ca, Cca
5 x 35 RM	0.524	162	28.6	2111	B2ca, Dca
1 x 50 RM	0.387	265	14.7	567	B2ca, Cca
3 x 50 + 25 SM/RM	0.387 / 0,727	197	27.5	1968	B2ca, Cca
4 x 50 SM	0.387	197	27.7	2107	B2ca, Cca
4 x 50 RM	0.387	197	29.5	2290	B2ca, Dca
5 x 50 RM	0.387	197	32.9	2826	B2ca, Dca
1 x 70 RM	0.268	336	16.7	777	B2ca, Cca
3 x 70 SM	0.268	250	28.5	2263	B2ca, Cca
3 x 70 + 35 SM/RM	0.268 / 0,524	250	31.2	2740	B2ca, Cca
4 x 70 SM	0.268	250	31.2	2942	B2ca, Cca
5 x 70 RM	0.268	250	38.5	3984	Dca
1 x 95 RM	0.193	415	18.4	1028	B2ca, Cca
3 x 95 SM	0.193	308	31.3	3023	B2ca, Cca
3 x 95 + 50 SM/RM	0.193 / 0,387	308	35.6	3675	B2ca, Cca
4 x 95 SM	0.193	308	35.6	3959	B2ca, Cca

DATA-SHEET

N2XH

PARAMETERS

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter (mm)	Total weight (kg/km)	CPR Classification
1 x 120 RM	0.153	485	20.2	1279	B2ca, Cca
3 x 120 SM	0.153	359	34.1	3731	B2ca, Cca
3 x 120 + 70 SM/RM	0.153 / 0,268	359	39.1	4615	B2ca, Cca
4 x 120 SM	0.153	359	39.3	4956	B2ca, Cca
1 x 150 RM	0.124	557	22.1	1556	B2ca, Cca
3 x 150 SM	0.124	412	38.1	4600	B2ca, Cca
3 x 150 + 70 SM/RM	0.124 / 0,268	412	43.9	5600	B2ca, Cca
4 x 150 SM	0.124	412	44.1	6078	B2ca, Cca
1 x 185 RM	0.0991	646	24.4	1927	B2ca, Cca
3 x 185 SM	0.0991	475	41.9	5695	B2ca, Cca
3 x 185 + 95 SM/SM	0.0991 / 0,193	475	44.4	6705	B2ca, Cca
4 x 185 SM	0.0991	475	49.3	7567	B2ca, Cca
1 x 240 RM	0.0754	774	27	2473	B2ca, Cca
3 x 240 SM	0.0754	564	46.7	7370	B2ca, Cca
3 x 240 + 120 SM/SM	0.0754 / 0,153	564	50	8624	B2ca, Cca
4 x 240 SM	0.0754	564	54.7	9771	B2ca, Cca
1 x 300 RM	0.0601	901	29.4	3049	B2ca, Cca
1 x 400 RM	0.047	1060	33.4	3885	B2ca, Cca
1 x 500 RM	0.0366	1252	37.2	4941	B2ca, Cca
1 x 630 RM	0.0283	1486	41.4	6299	B2ca, Cca

Technical changes reserved. All figures are therefore without guarantee.

ADDITIONAL INFORMATION

It is necessary to define the correct class of CPR when ordering: multi-core: B2ca-s1a, d1, a1 single-core: B2ca-s1a, d2, a1 multi-core: Cca-s1a, d1, a1 single core: Cca-s1a, d2, a1 multicore (5+): Dca-s2, d1, a1