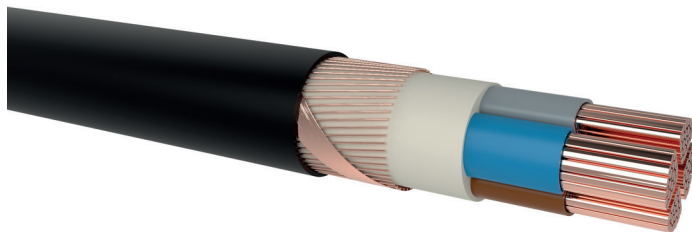


N2XCH

XLPE/FRNC energy cable, screened

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 | Screen (bare copper wires and counter helix, over halogen-free plastic tape)
- 5 | 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



Rated voltage:
0.6/1 kV (U₀/U)



Test voltage:
4 kV / 150 Hz



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/5 s



Bending radius (min.):
12 x Ø of cable



Core identification:
HD 308 S2



Fire properties:
EN 60332-1-2: flame retardant
EN 60754-1 and 2: halogen-free; non-corrosive combustion gases
EN 60332-3-22 and 24: reduced flame propagation
EN 61034-2: low smoke emission



Certificate:
VDE Germany

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 (mm) appr.	Total weight (kg/km) appr.	Standard lengths/ packing (m)
N2XCH					
2 x 1.5 RE/1.5	12.1	28	14.0	240	500 D, 1000 D
3 x 1.5 RE/1.5	12.1	25	14.5	250	500 D, 1000 D
4 x 1.5 RE/1.5	12.1	25	15.6	260	500 D, 1000 D
5 x 1.5 RE/1.5	12.1	16	16.5	295	500 D, 1000 D
7 x 1.5 RE/2.5	12.1	15.5	17.4	360	500 D, 1000 D
12 x 1.5 RE/2.5	12.1	12.5	21.2	530	500 D
19 x 1.5 RE/4	12.1	10.5	24.5	720	500 D
24 x 1.5 RE/6	12.1	9.5	27.5	850	500 D
30 x 1.5 RE/6	12.1	9	28.9	1020	500 D
40 x 1.5 RE/10	12.1	8	32.2	1370	500 D
2 x 2.5 RE/2.5	7.41	38	15.2	270	1000 D
3 x 2.5 RE/2.5	7.41	33	15.8	290	1000 D

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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 (mm) appr.	Total weight (kg/km) appr.	Standard lengths/packing (m)
N2XCH					
4 x 2.5 RE/2.5	7.41	33	16.6	330	1000 D
5 x 2.5 RE/2.5	7.41	22	17.6	365	1000 D
5 x 2.5 RE/16	7.41		18.9	571	1000 D
7 x 2.5 RE/2.5	7.41	20.5	18.8	450	1000 D
12 x 2.5 RE/4	7.41	16.5	23.7	700	500 D, 1000 D
19 x 2.5 RE/6	7.41	14	26.5	985	500 D
24 x 2.5 RE/10	7.41	12.5	30.7	1180	500 D
30 x 2.5 RE/10	7.41	12	32.0	1400	500 D
40 x 2.5 RE/10	7.41	11	35.3	1930	500 D
2 x 4 RE/4	4.61	49	16.8	320	1000 D
3 x 4 RE/4	4.61	43	17.4	380	1000 D
4 x 4 RE/4	4.61	43	18.5	440	1000 D
5 x 4 RE/4	4.61	28	19.7	525	1000 D
7 x 4 RE/4	4.61	27	20.8	595	500 D
2 x 6 RE/6	3.08	62	17.8	410	500 D
3 x 6 RE/6	3.08	54	18.7	470	500 D
4 x 6 RE/6	3.08	54	19.7	550	500 D
2 x 10 RE/10	1.83	85	19.9	550	500 D
3 x 10 RE/10	1.83	75	20.7	640	500 D
4 x 10 RE/10	1.83	75	22.2	760	500 D
2 x 16 RE/16	1.15	113	22.5	785	500 D
3 x 16 RE/16	1.15	100	23.7	829	500 D
4 x 16 RE/16	1.15	100	25.3	1070	500 D
5 x 16 RM/16	1.15	65	27.1	1210	500 D
3 x 25 RM/16	0.727	136	27.3	1290	500 D
4 x 25 RM/16	0.524	136	29.5	1700	500 D
16 x 35 RM/3	0.524	165	28.7	1730	500 D
4 x 35 SM/16	0.524	162	32.7	2150	500 D
3 x 50 SM/25	0.387	201	29.5	1990	500 D
4 x 50 SM/25	0.387	197	33.9	2600	500 D
3 x 70 SM/35	0.268	255	34.3	2830	500 D
4 x 70 SM/35	0.268	250	39.8	3550	500 D
3 x 95 SM/50	0.193	314	37.2	4350	500 D
4 x 95 SM/50	0.193	314	43.5	4800	500 D
3 x 120 SM/70	0.153	364	40.9	5270	500 D
4 x 120 SM/70	0.153	364	47.6	6500	500 D
3 x 150 SM/70	0.124	416	44.9	5450	300 D
4 x 150 SM/70	0.124	416	52.3	7950	300 D
3 x 185 SM/95	0.099	480	50.2	6800	300 D
4 x 185 SM/95	0.099	480	58.1	9970	300 D

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N2XCH					
3 x 240 SM/120	0.075	565	55.2	8900	300 D
4 x 240 SM/120	0.075	565	64.7	12900	300 D

Technical changes reserved. All figures are therefore without guarantee.

18.8.2022, 16:54