

# N2XH

## Halogen-free energy cable

### 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 (HD 604)



**Rated voltage:**  
0.6/1 kV



**Test voltage:**  
4 kV/50 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:**  
flame retardant:  
EN 60332-1-2  
halogen-free, non-corrosive combustion gases:  
EN 50267-2-2  
reduced flame propagation:  
EN 60332-3-24  
low smoke emission:  
EN 61034-2



**Certificate:**  
EZÚ Czech Republic, VDE Germany

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>N2XH</b>					
2 x 1.5 RE	12.100	29	11.5	180	1,000 D
3 x 1.5 RE	12.100	24	12.0	200	1,000 D
4 x 1.5 RE	12.100	24	13.0	230	1,000 D
5 x 1.5 RE	12.100	24	14.0	270	1,000 D
7 x 1.5 RE	12.100	14	14.0	310	1,000 D
12 x 1.5 RE	12.100	12	18.0	460	500 D
19 x 1.5 RE	12.100	11	21.0	650	500 D
24 x 1.5 RE	12.100	10	22.0	760	500 D
30 x 1.5 RE	12.100	9	24.0	900	500 D
40 x 1.5 RE	12.100	8	28.4	1,300	500 D
2 x 2.5 RE	7.410	38	12.0	210	1,000 D
3 x 2.5 RE	7.410	32	13.0	250	1,000 D

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<b>N2XH</b>					
4 x 2.5 RE	7.410	32	14.0	290	1,000 D
5 x 2.5 RE	7.410	32	15.0	340	1,000 D
7 x 2.5 RE	7.410	20	15.9	400	1,000 D
12 x 2.5 RE	7.410	17	19.0	600	500 D
19 x 2.5 RE	7.410	16	22.0	840	500 D
24 x 2.5 RE	7.410	13	25.0	1,050	500 D
30 x 2.5 RE	7.410	12	27.0	1,230	500 D
40 x 2.5 RE	7.410	11	31.7	1,820	500 D
2 x 4 RE	4.610	51	13.0	270	1,000 D
3 x 4 RE	4.610	42	14.0	330	1,000 D
4 x 4 RE	4.610	42	15.0	380	1,000 D
5 x 4 RE	4.610	42	16.0	450	1,000 D
7 x 4 RE	4.610	28	18.5	620	500 D
2 x 6 RE	3.080	64	14.0	340	500 D
3 x 6 RE	3.080	53	15.0	410	500 D
4 x 6 RE	3.080	53	16.0	490	500 D
5 x 6 RE	3.080	53	17.0	560	500 D
2 x 10 RE	1.830	86	16.0	450	500 D
3 x 10 RE	1.830	74	16.0	550	500 D
4 x 10 RE	1.830	74	18.0	670	500 D
5 x 10 RE	1.830	74	19.0	790	500 D
1 x 16 RE	1.150	131	9,8	230	500 D, 1,000 D
1 x 16 RM	1.150	131	10,1	235	500 D, 1,000 D
2 x 16 RM	1.150	110	18.1	635	500 D
3 x 16 RM	1.150	98	19.2	750	500 D
4 x 16 RM	1.150	98	20.8	960	500 D
5 x 16 RM	1.150	98	22.7	1,085	500 D
1 x 25 RM	0.727	177	11.8	345	500 D, 1,000 D
3 x 25 RM	0.727	133	24.0	1,200	500 D
3 x 25 + 16 RM/RM	0.727/1.150	133	26.0	1,360	500 D
4 x 25 RM	0.727	133	26.0	1,450	500 D
1 x 35 RM	0.524	217	13.2	445	500 D, 1,000 D
3 x 35 RM	0.524	162	27.0	1,600	500 D
3 x 35 + 16 SM/RM	0.524/1.150	162	28.4	1,640	500 D
4 x 35 SM	0.524	162	28.4	1,850	500 D
1 x 50 RM	0.387	265	14.6	600	500 D, 1,000 D
3 x 50 RM	0.387	197	29.0	1,800	500 D
3 x 50 + 25 SM/RM	0.387/0.727	197	34.4	2,170	500 D
4 x 50 SM	0.387	197	34.4	2,410	500 D
1 x 70 RM	0.268	336	16.4	810	500 D, 1,000 D
3 x 70 RM	0.268	250	34.6	2,550	500 D
3 x 70 + 35 SM/RM	0.268/0.524	250	37.8	2,960	500 D
4 x 70 SM	0.268	250	37.8	3,340	500 D
1 x 95 RM	0.193	415	17.9	1,070	500 D, 1,000 D

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<b>N2XH</b>					
3 x 95 RM	0.193	308	38.1	3,360	500 D
3 x 95 + 50 SM/RM	0.193/0.387	308	42.8	3,840	500 D
4 x 95 SM	0.193	308	42.8	4,380	500 D
1 x 120 RM	0.153	485	19.4	1,330	500 D, 1,000 D
3 x 120 RM	0.153	359	41.7	4,160	500 D
3 x 120 + 70 SM/RM	0.153/0.268	359	46.2	4,790	500 D
3 x 120 + 70 SM/SM	0.153/0.268	359	44.8	4,750	500 D
4 x 120 SM	0.153	359	46.2	5,420	500 D
1 x 150 RM	0.124	557	21.2	1,620	500 D, 1,000 D
3 x 150 RM	0.124	412	45.4	5,180	300 D
3 x 150 + 70 SM/RM	0.124/0.268	412	50.0	5,840	300 D
3 x 150 + 70 SM/SM	0.124/0.268	412	48.5	5,810	300 D
3 x 150 + 95 SM/RM	0.124/0.193	412	50.0	5,980	300 D
4 x 150 SM	0.124	412	50.0	6,690	300 D
1 x 185 RM	0.099	646	23.6	1,990	500 D, 1,000 D
3 x 185 RM	0.099	475	51.0	6,240	300 D
3 x 185 + 95 SM/RM	0.099/0.193	475	56.6	7,020	300 D
3 x 185 + 95 SM/SM	0.099/0.193	475	54.9	6,980	300 D
4 x 185 SM	0.099	475	56.6	8,270	300 D
1 x 240 RM	0.075	774	26.6	2,570	500 D, 1,000 D
3 x 240 RM	0.075	564	57.0	8,290	300 D
3 x 240 + 120 SM/RM	0.075/0.153	564	62.8	9,240	300 D
3 x 240 + 120 SM/SM	0.075/0.153	564	61.1	9,190	300 D
4 x 240 SM	0.075	564	62.8	11,110	300 D
1 x 300 RM	0.060	901	29.1	3,180	500 D, 1,000 D
1 x 400 RM	0.047	1,060	32.9	4,160	500 D, 1,000 D
1 x 500 RM	0.037	1,252	36.4	5,130	500 D, 1,000 D

1) basic rated current acc. to DIN VDE 0276-604 (HD 604)  
Subject to technical changes.