

# (N)2XH PLUS

## Underground 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 polymer compound and eventually with halogen-free fabric tape)
- 4 | Sheath (halogen-free polymer compound black, UV-resistant)

### APPLICATION

These cables are intended for the stationary distribution of electrical energy in dry or damp premises and for fixed installations underground, in open air or in 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 in water.

### TECHNICAL DATA



**Standard:**  
TP PRAKAB 02/12,  
adapted to DIN VDE 0276-604



**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:**  
VDE Germany

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Current rating in the ground <sup>1)</sup> (A)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
(N)2XH PLUS						
2 x 1.5 RE	12.100	31	24	10.9	175	1,000 D
3 x 1.5 RE	12.100	31	24	11.4	190	1,000 D
4 x 1.5 RE	12.100	31	24	12.2	220	1,000 D
5 x 1.5 RE	12.100	31	24	13.0	250	1,000 D
2 x 2.5 RE	7.410	40	32	11.7	210	1,000 D
3 x 2.5 RE	7.410	40	32	12.2	240	1,000 D
4 x 2.5 RE	7.410	40	32	13.1	275	1,000 D
5 x 2.5 RE	7.410	40	32	14.1	320	1,000 D
2 x 4 RE	4.610	52	42	12.7	265	1,000 D
3 x 4 RE	4.610	52	42	13.3	305	1,000 D
4 x 4 RE	4.610	52	42	14.2	360	1,000 D
5 x 4 RE	4.610	52	42	15.3	415	1,000 D

## (N)2XH PLUS

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Current rating in the ground <sup>1)</sup> (A)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>(N)2XH PLUS</b>						
2 x 6 RE	3.080	64	53	13.7	325	500 D
3 x 6 RE	3.080	64	53	14.3	385	500 D
4 x 6 RE	3.080	64	53	15.5	455	500 D
5 x 6 RE	3.080	64	53	16.7	540	500 D
2 x 10 RE	1.830	86	74	15.2	440	500 D
3 x 10 RE	1.830	86	74	15.6	515	500 D
4 x 10 RE	1.830	86	74	17.3	645	500 D
5 x 10 RE	1.830	86	74	18.8	770	500 D
2 x 10 RM	1.830	86	74	16.4	500	500 D
3 x 10 RM	1.830	86	74	17.3	595	500 D
4 x 10 RM	1.830	86	74	18.8	720	500 D
5 x 10 RM	1.830	86	74	20.4	860	500 D
1 x 16 RE	1.150	176	131	11.0	260	500 D, 1,000 D
2 x 16 RE	1.150	112	98	17.0	605	500 D
3 x 16 RE	1.150	112	98	18.0	740	500 D
4 x 16 RE	1.150	112	98	19.5	910	500 D
5 x 16 RE	1.150	112	98	21.3	1,100	500 D
1 x 16 RM	1.150	176	131	11.4	270	500 D, 1,000 D
2 x 16 RM	1.150	112	98	18.4	670	500 D
3 x 16 RM	1.150	112	98	19.4	815	500 D
4 x 16 RM	1.150	112	98	21.2	995	500 D
5 x 16 RM	1.150	112	98	23.1	1,200	500 D
1 x 25 RM	0.727	229	177	13.3	400	500 D, 1,000 D
3 x 25 RM	0.727	145	133	22.3	1,170	500 D
3 x 25 + 16 RM/RM	0.727/1.150	145	133	24.4	1,330	500 D
4 x 25 RM	0.727	145	133	24.4	1,440	500 D
1 x 35 RM	0.524	275	217	14.1	475	500 D, 1,000 D
3 x 35 RM	0.524	174	162	23.9	1,410	500 D
3 x 35 + 16 SM/RM	0.524/1.150	174	162	25.9	1,390	500 D
4 x 35 SM	0.524	174	162	25.9	1,560	500 D
1 x 50 RM	0.387	326	265	15.6	620	500 D, 1,000 D
3 x 50 RM	0.387	206	197	27.3	1,890	500 D
3 x 50 + 25 SM/RM	0.387/0.727	206	197	28.9	1,920	500 D
4 x 50 SM	0.387	206	197	28.9	2,110	500 D
1 x 70 RM	0.268	400	336	17.5	830	500 D, 1,000 D
3 x 70 SM	0.268	254	250	28.9	2,190	500 D
3 x 70 + 35 SM/RM	0.268/0.524	254	250	33.1	2,600	500 D
4 x 70 SM	0.268	254	250	33.1	2,890	500 D
1 x 95 RM	0.193	480	415	19.2	1,070	500 D, 1,000 D
3 x 95 SM	0.193	305	308	32.5	2,880	500 D
3 x 95 + 50 SM/RM	0.193/0.387	305	308	37.1	3,440	500 D
4 x 95 SM	0.193	305	308	37.1	3,820	500 D

**(N)2XH PLUS**

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Current rating in the ground <sup>1)</sup> (A)	Current rating in the air <sup>1)</sup> (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
<b>(N)2XH PLUS</b>						
1 x 120 RM	0.153	548	485	20.9	1,320	500 D, 1,000 D
3 x 120 SM	0.153	348	359	34.9	3,570	500 D
3 x 120 + 70 SM/RM	0.153/0.268	348	359	40.3	4,350	500 D
4 x 120 SM	0.153	348	359	40.3	4,900	500 D
1 x 150 RM	0.124	616	557	22.8	1,600	500 D, 1,000 D
3 x 150 SM	0.124	392	412	38.9	4,400	250 D
3 x 150 + 70 SM/RM	0.124/0.268	392	412	44.9	5,500	250 D
4 x 150 SM	0.124	392	412	44.9	5,880	250 D
1 x 185 RM	0.099	698	646	24.9	1,960	500 D, 1,000 D
3 x 185 SM	0.099	444	475	42.7	5,490	250 D
3 x 185 + 95 SM/RM	0.099/0.193	444	475	49.1	6,530	250 D
4 x 185 SM	0.099	444	475	49.1	7,270	250 D
1 x 240 RM	0.075	815	774	27.8	2,520	500 D, 1,000 D
3 x 240 SM	0.075	517	564	47.5	7,100	250 D
3 x 240 + 120 SM/RM	0.075/0.153	517	564	55.1	8,480	250 D
4 x 240 SM	0.075	517	564	55.1	9,500	250 D
1 x 300 RM	0.060	927	901	30.5	3,120	500 D, 1,000 D
1 x 400 RM	0.047	1,064	1,060	34.1	3,970	500 D, 1,000 D
1 x 500 RM	0.037	1,227	1,252	37.9	5,050	500 D, 1,000 D
1 x 630 RM	0.028	1,421	1,486	42.6	6,520	500 D, 1,000 D

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