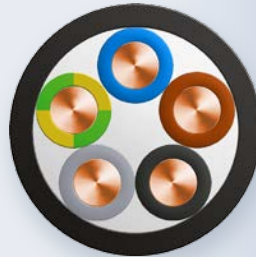


Power cables

DIN VDE 0276-604



Advantages

- High safety standards
- Halogen-free
- In compliance with RoHS directive

N2XH

Applications

Power cable 0.6 / 1 kV for fixed installation in cable systems with improved fire performance. For:

- power stations
- buildings and areas where people gather and for protection of valuables

Construction

- | | |
|-----------------------|--------------------------------------|
| ■ Conductors | Bare annealed copper |
| ■ Insulation | Polyethylene cross-linked |
| ■ Inner covering | Tape or filler |
| ■ Core identification | Acc. to VDE 0276-604 resp. HD 308 S2 |
| ■ Sheath | BETAflam® copolymer |
| ■ Sheath colour | Black |

Electrical characteristics

Rated voltage	U_0/U 0.6 / 1 kV
Test voltage	4 kV with 50 Hz

Thermal characteristics

Operation temperature	-30 °C up to +90 °C
Laying temperature	-5 °C up to +70 °C
Short circuit temperature	+250 °C (temperature peak < 5 s)

Bending radius

cable design	single core	multiple core
during laying	$> 15 \times \text{outer } \emptyset$	$> 12 \times \text{outer } \emptyset$
fixed	$> 8 \times \text{outer } \emptyset$	$> 7 \times \text{outer } \emptyset$

Laying conditions

- Fixed installation indoor, in air or concrete
- Laying in earth or water only in water-proof dry tubes
- Outdoor laying only when protected from direct sunlight and other external impacts

Standards / Material properties

- Halogen-free: IEC 60754-1, EN 50267-2-1, VDE 0482-267-2-1
- No corrosive gases: IEC 60754-2, EN 50267-2-2, VDE 0482-267-2-2
- Low smoke density: IEC 61034-1 and -2, EN 61034-1 and -2, VDE 0482-1034-1 and -2
- Flame retardant: IEC 60332-1, EN 60332-1, VDE 0482-332-1
- No flame propagation: IEC 60332-3-10 and -3-24, EN 60332-3-10, -24, VDE 0482-332-3-24

Cable type	Construction n × mm ²	Core function	Outer Ø mm	Weight kg / km	Cu factor kg / km	Order no.	
						Germany	Switzerland
N2XH-O	1 × 4 RE	L	6.0	69	38	LKI 8004 8800 0000	
N2XH-O	1 × 6 RE	L	6.5	90	58	LKI 8004 8900 0000	
N2XH-O	1 × 10 RE	L	7.3	131	96	LKI 8004 9000 0000	
N2XH-O	1 × 16 RM	L	8.6	197	154	LKI 8004 9100 0000	
N2XH-O	1 × 25 RM	L	10.2	293	240	LKI 8004 9200 0000	
N2XH-O	1 × 35 RM	L	11.3	389	336	LKI 8004 9300 0000	
N2XH-O	1 × 50 RM	L	12.9	517	480	LKI 8004 9400 0000	
N2XH-O	1 × 70 RM	L	14.4	717	672	LKI 8004 9500 0000	
N2XH-O	1 × 95 RM	L	16.6	972	912	LKI 8004 9600 0000	
N2XH-O	1 × 120 RM	L	18.2	1215	1152	LKI 8004 9700 0000	
N2XH-O	1 × 150 RM	L	20.2	1494	1440	LKI 8004 9800 0000	
N2XH-O	1 × 185 RM	L	22.3	1855	1776	LKI 8004 9900 0000	
N2XH-O	1 × 240 RM	L	25.0	2387	2304	LKI 8005 0100 0000	
N2XH-O	1 × 300 RM	L	27.5	2971	2880	LKI 8005 0200 0000	
N2XH-J	3 × 1.5 RE	LNPE	9.3	125	43	LKI 8005 1000 0000	
N2XH-J	3 × 2.5 RE	LNPE	10.2	163	72	LKI 8005 1100 0000	
N2XH-J	3 × 4 RE	LNPE	11.2	219	115	LKI 8005 1200 0000	
N2XH-J	3 × 6 RE	LNPE	12.5	289	173	LKI 8005 1300 0000	
N2XH-J	3 × 10 RE	LNPE	13.9	431	288	LKI 8005 1400 0000	
N2XH-J	3 × 16 RM	LNPE	17.7	638	461	LKI 8005 1500 0000	
N2XH-J	4 × 1.5 RE	3LPE	10.1	147	58	LKI 8005 3400 0000	
N2XH-J	4 × 2.5 RE	3LPE	11.0	195	96	LKI 8005 3500 0000	301160
N2XH-J	4 × 4 RE	3LPE	12.1	266	154	LKI 8005 3600 0000	
N2XH-J	4 × 6 RE	3LPE	12.3	355	230	LKI 8005 3700 0000	303889
N2XH-J	4 × 10 RE	3LPE	15.4	547	384	LKI 8005 3800 0000	
N2XH-J	4 × 16 RM	3LPE	18.6	839	614	LKI 8005 3900 0000	
N2XH-J	4 × 25 RM	3LPE	23.5	1294	960	LKI 8005 4000 0000	
N2XH-J	4 × 35 RM	3LPE	26.0	1605	1344	LKI 8005 4100 0000	
N2XH-J	4 × 50 RM	3LPE	29.4	2154	1920	LKI 8005 4200 0000	
N2XH-J	4 × 70 RM	3LPE	34.4	3047	2688	LKI 8005 4300 0000	
N2XH-J	4 × 95 RM	3LPE	38.6	4102	3648	LKI 8005 4400 0000	
N2XH-J	4 × 120 RM	3LPE	42.4	5062	4608	LKI 8005 4600 0000	
N2XH-J	4 × 150 RM	3LPE	47.2	6256	5760	LKI 8005 4700 0000	
N2XH-J	4 × 185 RM	3LPE	52.0	7751	7104	LKI 8005 4800 0000	
N2XH-J	5 × 1.5 RE	3LNPE	10.9	174	72	LKI 8005 5000 0000	
N2XH-J	5 × 2.5 RE	3LNPE	11.9	233	120	LKI 8005 5100 0000	
N2XH-J	5 × 4 RE	3LNPE	13.1	319	192	LKI 8005 5200 0000	
N2XH-J	5 × 6 RE	3LNPE	14.4	427	288	LKI 8005 5300 0000	
N2XH-J	5 × 10 RE	3LNPE	16.8	682	480	LKI 8005 5400 0000	

-J = with gn/ye conductor ●	L = colour phase conductor br/bk/gr ● ● ●
-O = without gn/ye conductor	N = colour neutral conductor bl ●
RE = round solid, class 1	NR = colour phase conductors bk ● / numbered
RM = round stranded, class 2	PE = colour earth conductor gn/ye ●

Further designs upon request

Cable type	Construction	Core function	Outer Ø	Weight	Cu factor	Order no.	
						Germany	Switzerland
	$n \times \text{mm}^2$		mm	kg / km	kg / km		
N2XH-J	5 × 16 RE	3LNPE	19.2	1036	768	LKI 8005 5500 0000	
N2XH-J	5 × 25 RM	3LNPE	24.9	1584	1200	LKI 8005 5600 0000	
N2XH-J	7 × 1.5 RE	NRPE	11.7	214	101	LKI 8005 6100 0000	
N2XH-J	7 × 2.5 RE	NRPE	12.8	291	168	LKI 8005 6200 0000	
N2XH-J	10 × 1.5 RE	NRPE	14.4	299	144	LKI 8005 6600 0000	
N2XH-J	10 × 2.5 RE	NRPE	16.2	419	240	LKI 8005 6700 0000	
N2XH-J	12 × 1.5 RE	NRPE	14.9	342	173	LKI 8005 6800 0000	
N2XH-J	12 × 2.5 RE	NRPE	16.6	480	288	LKI 8005 6900 0000	
N2XH-J	24 × 1.5 RE	NRPE	20.4	625	346	LKI 8005 8100 0000	
N2XH-J	30 × 1.5 RE	NRPE	21.5	738	432	LKI 8005 8300 0000	
N2XH-J	30 × 2.5 RE	NRPE	23.9	1045	720	LKI 8005 8400 0000	

-J = with gn/ye conductor ●
 -O = without gn/ye conductor
 RE = round solid, class 1
 RM = round stranded, class 2

L = colour phase conductor br/bk/gr ● ● ●
 N = colour neutral conductor bl ●
 NR = colour phase conductors bk ● / numbered
 PE = colour earth conductor gn/ye ●

Further designs upon request