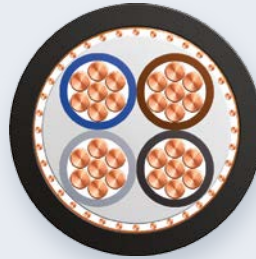
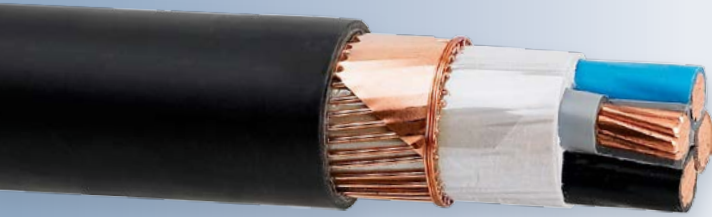


# Power cables

DIN VDE 0276-604



## Advantages

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

## N2XCH

### Applications

Power cable 0.6/1 kV with concentric conductor 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                          |
| ■ Concentric conductor | Copper wires, with helix of copper tape |
| ■ Sheath               | BETAflam® copolymer                     |
| ■ Core identification  | acc. to VDE 0276-604 resp. HD 308 S2    |
| ■ 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	$> 15 \times \text{outer } \varnothing$	$> 12 \times \text{outer } \varnothing$
fixed	$> 8 \times \text{outer } \varnothing$	$> 7 \times \text{outer } \varnothing$

### 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 <sup>2</sup>	Core function	Outer Ø mm	Weight kg / km	Cu factor kg / km	Order no.	
						Germany	Switzerland
N2XCH	2 × 1.5 RE / 1.5	LN	11.1	172	52	LKI 8007 0300 0000	
N2XCH	2 × 2.5 RE / 2.5	LN	11.9	213	80	LKI 8007 0400 0000	
N2XCH	3 × 1.5 RE / 1.5	3L	11.1	190	66	LKI 8007 1100 0000	
N2XCH	3 × 2.5 RE / 2.5	3L	12.0	240	104	LKI 8007 1200 0000	
N2XCH	3 × 4 RE / 4	3L	13.4	314	161	LKI 8007 1300 0000	
N2XCH	3 × 6 RE / 6	3L	14.7	410	240	LKI 8007 1400 0000	
N2XCH	3 × 10 RE / 10	3L	16.5	600	408	LKI 8007 1500 0000	
N2XCH	3 × 16 RM / 16	3L	20.1	896	643	LKI 8007 1600 0000	
N2XCH	3 × 25 RM / 16	3L	24.4	1360	902	LKI 8007 1700 0000	
N2XCH	3 × 35 RM / 16	3L	26.7	1795	1190	LKI 8007 1800 0000	
N2XCH	4 × 1.5 RE / 1.5	3LN	11.9	217	81	LKI 8007 2600 0000	
N2XCH	4 × 2.5 RE / 2.5	3LN	12.8	275	128	LKI 8007 2700 0000	
N2XCH	4 × 4 RE / 4	3LN	14.3	365	200	LKI 8007 2800 0000	
N2XCH	4 × 6 RE / 6	3LN	15.8	479	297	LKI 8007 2900 0000	
N2XCH	4 × 10 RE / 10	3LN	18.0	709	504	LKI 8007 3000 0000	
N2XCH	4 × 16 RM / 16	3LN	21.7	1068	796	LKI 8007 3100 0000	306525
N2XCH	4 × 25 RM / 16	3LN	26.5	1526	1142	LKI 8007 3200 0000	
N2XCH	4 × 35 RM / 16	3LN	29.0	1814	1526	LKI 8007 3300 0000	
N2XCH	4 × 50 SM / 25	3LN	29.6	2405	2203	LKI 8007 6100 0000	
N2XCH	4 × 70 SM / 35	3LN	34.7	3378	3082	LKI 8007 6200 0000	
N2XCH	4 × 95 SM / 50	3LN	38.5	4568	4208	LKI 8007 6300 0000	
N2XCH	4 × 120 SM / 70	3LN	43.1	5773	5388	LKI 8007 6400 0000	
N2XCH	4 × 150 SM / 70	3LN	47.2	6921	6540	LKI 8007 6500 0000	
N2XCH	4 × 185 SM / 95	3LN	51.6	8666	8159	LKI 8007 6600 0000	
N2XCH	4 × 240 SM / 120	3LN	57.3	11167	10546	LKI 8007 6700 0000	
N2XCH	7 × 1.5 RE / 2.5	NR	13.5	295	133	LKI 8007 4100 0000	
N2XCH	7 × 2.5 RE / 2.5	NR	14.6	378	200	LKI 8007 4200 0000	
N2XCH	12 × 1.5 RE / 2.5	NR	16.9	437	205	LKI 8007 4700 0000	
N2XCH	12 × 2.5 RE / 4	NR	18.8	589	334	LKI 8007 4800 0000	
N2XCH	24 × 1.5 RE / 6	NR	22.6	764	413	LKI 8007 5500 0000	
N2XCH	30 × 1.5 RE / 6	NR	23.7	880	499	LKI 8007 5700 0000	
N2XCH	30 × 2.5 RE / 10	NR	26.5	1238	840	LKI 8007 5800 0000	

RE = round solid, class 1

RM = round stranded, class 2

SM = sector shaped, stranded  
class 2

L = colour phase conductor br/bk/gr ● ● ●

N = colour neutral conductor bl ●

NR = colour phase conductors bk ● / numbered

Further designs upon request