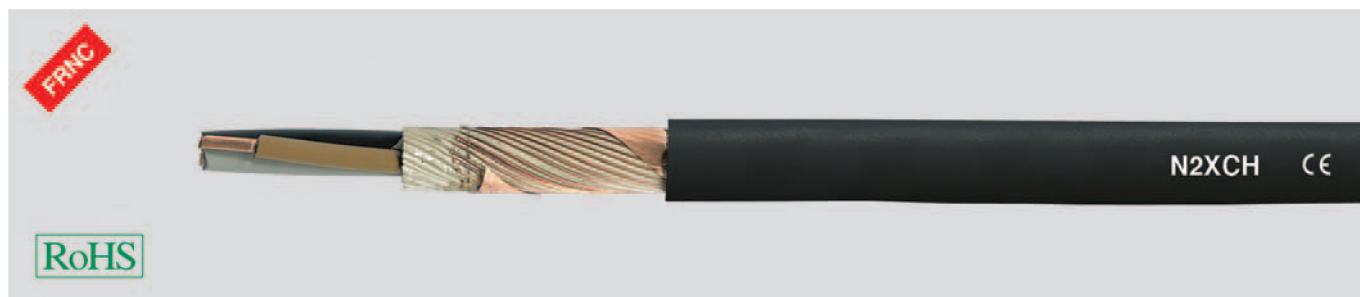


# N2XCH power cable, 0,6/1kV, halogen-free, with concentric conductor, without functionality



## Technical data

- Power and control cable acc. to DIN VDE 0276 part 604, HD 604 S1 part 1 and part 5G
- **Temperature range** during installation -5°C to +50°C fixed installation -30°C to +90°C
- Permissible **operating temperature** at conductor +90°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4 kV
- **Minimum bending radius** 12x cable Ø
- **Radiation resistance** up to  $100 \times 10^6$  cJ/kg (up to 100 Mrad)
- **Caloric load values** see Technical Informations

## Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.1 or cl.2, single-wire or multi-wire, BS 6360 cl.1 or cl.2, IEC 60228 cl.1 or cl.2
- Core insulation of cross-linked polyethylene (XLPE) compound type 2X11 to HD 604 S1
- Core identification to DIN VDE 0293-308
- Cores stranded in layers (for multi-core cables)
- Overall filled inner sheat
- Covered by filling compound or taping
- Concentric conductor of bare Cu-wires
- Outer sheath of thermoplastic polyolefine, compound type HM4 to HD 604 S1
- Sheath colour black

## Properties

- Halogen-free, no liberation of corrosive or toxic gases
- Limited propagation of fire
- Low smoke development
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Tests

- Flame test acc. to DIN VDE 0482-332-3-24, BS 4066 part 3, DIN EN 60332-3-24, IEC 60332-3-24 (previously DIN VDE 0472 part 804 test method C)
- Corrosiveness of combustion gases acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Halogen-free acc. to DIN VDE 0482 part 267, DIN EN 50267-2-1, IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2 (previously DIN VDE 0472 part 816)

## Note

- re = round conductor, single-wire
- rm = round conductor, multi-wire
- sm = sectional conductor, multi-wire
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- **LSOH** = Low Smoke Zero Halogen

## Application

The power cables with enhanced characteristics in case of fire are used in power stations.

The concentric conductor can be used as a PE or PEN conductor or as screen. Suitable for fixed installation in dry, damp or wet environments, in, above, on and beneath plaster as well as in masonry walls and in concrete. These cables are suitable for outdoor applications and in underground by using in conduits or tubes. For the installation in conduit all precautions must be taken that no accumulation of water can occur in the pipes

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53200	2 x 1,5 / 1,5 re	12,0	53,0	250,0	16	53223	4 x 4 / 4 re	17,5	202,0	480,0	12
53201	2 x 2,5 / 2,5 re	13,0	81,0	280,0	14	53224	4 x 6 / 6 re	19,0	297,0	600,0	10
53202	2 x 4 / 4 re	14,0	122,0	320,0	12	53225	4 x 10 / 10 re	21,5	504,0	850,0	8
53203	2 x 6 / 6 re	15,0	183,0	400,0	10	53226	4 x 16 / 16 re	24,5	797,0	1200,0	6
53204	2 x 10 / 10 re	16,0	311,0	560,0	8	53227	4 x 25 / 16 rm	29,0	1142,0	1800,0	4
53205	2 x 16 / 16 re	19,1	490,0	780,0	6	53228	4 x 35 / 16 rm	29,5	1528,0	2100,0	2
53206	3 x 1,5 / 1,5 re	13,0	67,0	250,0	16	53229	4 x 50 / 25 sm	32,5	2203,0	2800,0	1
53207	3 x 2,5 / 2,5 re	14,0	104,0	320,0	14	53230	4 x 70 / 35 sm	38,0	3082,0	3800,0	2/0
53208	3 x 4 / 4 re	16,5	161,0	400,0	12	53231	4 x 95 / 50 sm	43,5	4208,0	5100,0	3/0
53209	3 x 6 / 6 re	18,0	242,0	500,0	10	53232	4 x 120 / 70 sm	50,5	5388,0	6556,0	4/0
53210	3 x 10 / 10 re	20,0	408,0	750,0	8	53233	4 x 150 / 70 sm	52,1	6540,0	7600,0	300 kcmil
53211	3 x 16 / 16 re	22,5	643,0	1000,0	6	53234	4 x 185 / 95 sm	57,2	8159,0	9370,0	350 kcmil
53212	3 x 25 / 16 rm	27,0	902,0	1600,0	4	53235	4 x 240 / 120 sm	62,6	10546,0	11611,0	500 kcmil
53213	3 x 35 / 16 rm	27,5	1190,0	1900,0	2	53236	7 x 1,5 / 2,5 re	15,0	132,0	320,0	16
53214	3 x 50 / 25 rm	32,3	1723,0	2400,0	1	53237	7 x 2,5 / 2,5 re	15,5	200,0	400,0	14
53215	3 x 70 / 35 sm	35,6	2410,0	3060,0	2/0	53238	7 x 4 / 4 re	18,1	316,0	580,0	12
53216	3 x 95 / 50 sm	39,0	3296,0	4200,0	3/0	53239	10 x 1,5 / 2,5 re	17,2	177,0	420,0	16
53217	3 x 120 / 70 sm	42,0	4236,0	5207,0	4/0	53240	10 x 2,5 / 4 re	18,9	287,0	550,0	14
53218	3 x 150 / 70 sm	43,5	5100,0	5700,0	300 kcmil	53241	12 x 1,5 / 2,5 re	18,4	204,0	460,0	16
53219	3 x 185 / 95 sm	47,4	6383,0	7150,0	350 kcmil	53242	12 x 2,5 / 4 re	19,2	335,0	610,0	14
53220	3 x 240 / 120 sm	53,5	8240,0	9250,0	500 kcmil	53243	12 x 4 / 6 re	22,6	528,0	910,0	12
53221	4 x 1,5 / 1,5 re	13,5	81,0	300,0	16	53244	16 x 1,5 / 4 re	20,0	275,0	686,0	16
53222	4 x 2,5 / 2,5 re	14,5	129,0	380,0	14	53245	16 x 2,5 / 6 re	20,9	450,0	805,0	14

Continuation ▶

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Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53236	21 x 1,5 / 6 re	22,6	370,0	766,0	16
53243	21 x 2,5 / 6 re	25,2	572,0	1015,0	14
53237	24 x 1,5 / 6 re	23,2	412,0	800,0	16
53244	24 x 2,5 / 10 re	26,1	695,0	1100,0	14
53238	30 x 1,5 / 6 re	24,3	500,0	930,0	16
53245	30 x 2,5 / 10 re	28,0	842,0	1290,0	14

Dimensions and specifications may be changed without prior notice. (RQ02)