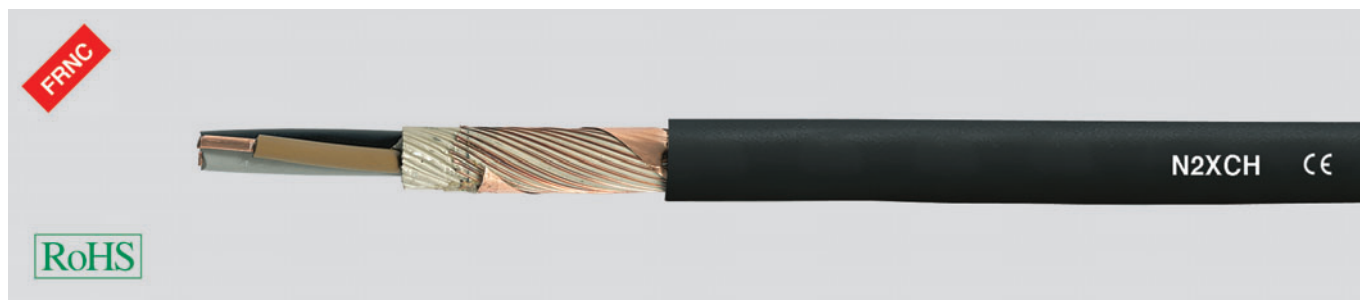


N2XCH power cable, 0,6/1kV, halogen-free, with concentric conductor, without functionality



Technical data

- Power and control cable according to DIN VDE 0276 part 604, HD 604 S1 part 1 and part 5G
- **Conductor resistance** (at 20 °C) according to VDE 0295 cl. 1 or 2 and IEC 60228 cl. 1 or 2 and HD 383 cl. 1 and cl. 2
- **Temperature range** during installation -5 °C to +50 °C for 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** approx. 12x cable \varnothing
- **Radiation resistance** up to 100×10^6 cJ/kg (up to 100 Mrad)
- **Caloric load values** see Technical Informations

Cable structure

- Plain Cu wire conductor, single or multiple-wire, according to DIN VDE 0295 cl. 1 or 2, BS 6360 cl. 1 or 2 and IEC 60228 cl. 1 or 2, HD 383
- Halogen-free core insulation, cross-linked polyethylene compound 2X1, to HD 604 S1
- Colour coding of cores according to DIN VDE 0293-308 and HD 186
- Cores stranded in layers (for multi-core cables)
- Overall filled inner sheath
- covered by filling compound
- or wrapped tape
- Concentric conductor of plain Cu wires
- Outer sheath of thermoplastic polyolefine compound HM4, to HD 604 S1
- Sheath colour black
- **LSOH** = Low Smoke Zero Halogen-free.

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

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

Note

- rm = round conductor, multiple-wire;
re = round conductor, single-wire.

Application

The concentric conductor can be used as PE- 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/EG.

| Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|--|--------------------|---------------------|------------------------|-----------|
| 53200 | 2 x 1,5 / 1,5 re | 14,0 | 53,0 | 250,0 | 16 |
| 53201 | 2 x 2,5 / 2,5 re | 15,0 | 81,0 | 280,0 | 14 |
| 53202 | 2 x 4 / 4 re | 14,0 | 122,0 | 320,0 | 12 |
| 53203 | 2 x 6 / 6 re | 15,0 | 183,0 | 400,0 | 10 |
| 53204 | 2 x 10 / 10 re | 16,0 | 311,0 | 560,0 | 8 |
| 53205 | 2 x 16 / 16 re | 19,1 | 490,0 | 780,0 | 6 |
| 53206 | 3 x 1,5 / 1,5 re | 14,5 | 67,0 | 250,0 | 16 |
| 53207 | 3 x 2,5 / 2,5 re | 15,5 | 104,0 | 320,0 | 14 |
| 53208 | 3 x 4 / 4 re | 16,5 | 161,0 | 400,0 | 12 |
| 53209 | 3 x 6 / 6 re | 18,0 | 242,0 | 500,0 | 10 |
| 53210 | 3 x 10 / 10 re | 20,0 | 408,0 | 750,0 | 8 |
| 53211 | 3 x 16 / 16 re | 22,5 | 643,0 | 1000,0 | 6 |
| 53212 | 3 x 25 / 16 rm | 27,0 | 1001,0 | 1600,0 | 4 |
| 53213 | 3 x 35 / 16 rm | 27,5 | 1190,0 | 1900,0 | 2 |
| 53214 | 3 x 50 / 25 rm | 32,3 | 2003,0 | 2400,0 | 1 |
| 53215 | 3 x 70 / 35 sm | 35,6 | 2794,0 | 3060,0 | 2/0 |
| 53216 | 3 x 95 / 50 sm | 39,0 | 3790,0 | 4200,0 | 3/0 |
| 53217 | 3 x 120 / 70 sm | 42,0 | 4785,0 | 5207,0 | 4/0 |
| 53218 | 3 x 150 / 70 sm | 43,5 | 5100,0 | 5700,0 | 300 kcmil |
| 53219 | 3 x 185 / 95 sm | 47,4 | 6381,0 | 7150,0 | 350 kcmil |
| 53220 | 3 x 240 / 120 sm | 53,5 | 8240,0 | 9250,0 | 500 kcmil |
| 53221 | 4 x 1,5 / 1,5 re | 15,5 | 81,0 | 300,0 | 16 |
| 53222 | 4 x 2,5 / 2,5 re | 16,5 | 129,0 | 380,0 | 14 |

| Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|--|--------------------|---------------------|------------------------|-----------|
| 53223 | 4 x 4 / 4 re | 17,5 | 202,0 | 480,0 | 12 |
| 53224 | 4 x 6 / 6 re | 19,0 | 297,0 | 600,0 | 10 |
| 53225 | 4 x 10 / 10 re | 21,5 | 504,0 | 850,0 | 8 |
| 53226 | 4 x 16 / 16 re | 24,5 | 797,0 | 1200,0 | 6 |
| 53227 | 4 x 25 / 16 rm | 29,0 | 1142,0 | 1800,0 | 4 |
| 53228 | 4 x 35 / 16 rm | 29,5 | 1528,0 | 2100,0 | 2 |
| 53229 | 4 x 50 / 25 rm | 32,5 | 2203,0 | 2800,0 | 1 |
| 53230 | 4 x 70 / 35 sm | 38,0 | 3082,0 | 3800,0 | 2/0 |
| 53231 | 4 x 95 / 50 sm | 43,5 | 4208,0 | 5100,0 | 3/0 |
| 53758 | 4 x 120 / 70 sm | 50,5 | 5388,0 | 6556,0 | 4/0 |
| 53759 | 4 x 150 / 70 sm | 52,1 | 6540,0 | 7600,0 | 300 kcmil |
| 53760 | 4 x 185 / 95 sm | 57,2 | 8159,0 | 9370,0 | 350 kcmil |
| 53761 | 4 x 240 / 120 sm | 62,6 | 10546,0 | 11611,0 | 500 kcmil |
| 53232 | 7 x 1,5 / 2,5 re | 14,5 | 132,0 | 320,0 | 16 |
| 53239 | 7 x 2,5 / 2,5 re | 15,1 | 200,0 | 400,0 | 14 |
| 53246 | 7 x 4 / 4 re | 18,1 | 316,0 | 580,0 | 12 |
| 53233 | 10 x 1,5 / 2,5 re | 17,2 | 177,0 | 420,0 | 16 |
| 53240 | 10 x 2,5 / 4 re | 18,9 | 287,0 | 550,0 | 14 |
| 53234 | 12 x 1,5 / 2,5 re | 18,4 | 204,0 | 460,0 | 16 |
| 53241 | 12 x 2,5 / 4 re | 19,2 | 335,0 | 610,0 | 14 |
| 53247 | 12 x 4 / 6 re | 22,6 | 528,0 | 910,0 | 12 |
| 53235 | 16 x 1,5 / 4 re | 20,0 | 275,0 | 686,0 | 16 |
| 53242 | 16 x 2,5 / 6 re | 20,9 | 450,0 | 805,0 | 14 |

Continuation ▶

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



| Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. 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)

Conduits

Corrugated tubes

- for standard applications
- for larger sizes
- scissile corrugated tubes
- conduit glands

High flexible conduits

- plastic conduits with spiral spring
- metal conduits
- conduits glands

Conduit for heavy mechanical duty

- metal conduits with plastic sheat
- plastic conduits
- conduits glands for metal conduits



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