

## N2XH-J (O) 0,6/1 kV

### Safety and halogen-free cables



#### TECHNICAL INFORMATION:

Power cable with copper wires, with cross-linked polyethylene insulation (2X) and halogen-free flame-retardant material sheath (H), with limited smoke and corrosive gas generation during combustion, with (J) or without a protective core (O).

#### CONSTRUCTION:

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductors            | copper single-wire class 1 or multi-wire class 2, to PN-EN 60228                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Insulation            | cross-linked polyethylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Insulation colour     | N2XH-O<br>1-conductor: black (other colours on request)<br>2-conductor: blue, brown<br>3-conductor: brown, black, grey or blue, brown, black<br>4-conductor: blue, brown, black, grey<br>5-conductor: blue, brown, black, grey, black<br>over 5 conductors - numbered conductors<br>N2XH-J<br>1-conductor: green-yellow<br>2-conductor: green-yellow, black<br>3-conductor: green-yellow, blue, brown<br>4-conductor: green-yellow, brown, black, grey or green-yellow, blue, brown, black<br>5-conductor: green-yellow, blue, brown, black, grey over 5 conductors - numbered conductors, green-yellow |
| Filling compound      | special halogen-free rubber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sheath                | special halogen-free, self-extinguishing, +flame-retardant, black colour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Operating temperature | od -40°C do +90°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Rated voltage         | 0,6/1 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Bending radius        | for single-conductor cables - 15 x conductor outer diameter<br>for multi-conductor cables - 12 x conductor outer diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Application           | halogen-free power supply cables for installations in facilities where human life and property must be protected against fire (hotels, hospitals, schools, airports, underground and train stations, industrial installations); cables to be laid in dry and moist rooms, over and in plasterwork, in brick walls and directly in concrete; only permanent installation possible; in outdoor or underground installations cables must be laid in cable ducts or tubes                                                                                                                                   |

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|         |                                                                                                                                                                                                                                                                                                                                                                        |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test    | resistance of a single cable to flame propagation (fire resistance): PN-EN 60332-1, IEC 60332-1<br>resistance of a cable bundle to flame propagation: PN-EN 60332-3-24, IEC 60332-3<br>Emission of corrosive gases during combustion: PN-EN 50267, IEC 60754-2<br>emission of smoke density during combustion: PN-EN 61034-1(-2), IEC 61034-1(-2), DIN-VDE 0482-1034-2 |
| Packing | drums; other containers on customer's request                                                                                                                                                                                                                                                                                                                          |

| N2XH-O(J) 0,6/1 kV                                                    |                                                |                                        |
|-----------------------------------------------------------------------|------------------------------------------------|----------------------------------------|
| Conductor number<br>and rated cross-section<br>[n x mm <sup>2</sup> ] | Approximate<br>external cable diameter<br>[mm] | Approximate<br>cable weight<br>[kg/km] |
| 1 x 1,5 RE                                                            | 5,2                                            | 39                                     |
| 1 x 2,5 RE                                                            | 5,5                                            | 51                                     |
| 1 x 4 RE                                                              | 6,0                                            | 67                                     |
| 1 x 6 RE                                                              | 6,5                                            | 87                                     |
| 1 x 10 RE                                                             | 7,3                                            | 128                                    |
| 1 x 16 RE                                                             | 8,3                                            | 194                                    |
| 1 x 25 RM                                                             | 10,2                                           | 292                                    |
| 1 x 35 RM                                                             | 11,4                                           | 386                                    |
| 1 x 50 RM                                                             | 13,0                                           | 524                                    |
| 1 x 70 RM                                                             | 14,6                                           | 710                                    |
| 1 x 95 RM                                                             | 16,4                                           | 967                                    |
| 1 x 120 RM                                                            | 18,0                                           | 1179                                   |
| 1 x 150 RM                                                            | 20,5                                           | 1517                                   |
| 1 x 185 RM                                                            | 22,2                                           | 1845                                   |
| 1 x 240 RM                                                            | 25,2                                           | 2353                                   |
| 1 x 300 RM                                                            | 27,4                                           | 2866                                   |
| 1 x 400 RM                                                            | 31,2                                           | 3853                                   |
| 2 x 1,5 RE                                                            | 8,9                                            | 119                                    |
| 2 x 2,5 RE                                                            | 9,7                                            | 150                                    |
| 2 x 4 RE                                                              | 10,6                                           | 195                                    |
| 2 x 6 RE                                                              | 11,6                                           | 250                                    |
| 2 x 10 RE                                                             | 13,2                                           | 360                                    |
| 2 x 16 RE                                                             | 15,5                                           | 542                                    |
| 2 x 25 RM                                                             | 19,7                                           | 852                                    |
| 2 x 35 RM                                                             | 22,1                                           | 1113                                   |
| 2 x 50 RM                                                             | 25,7                                           | 1526                                   |
| 2 x 70 RM                                                             | 28,8                                           | 2024                                   |
| 3 x 1,5 RE                                                            | 9,3                                            | 134                                    |
| 3 x 2,5 RE                                                            | 10,1                                           | 174                                    |
| 3 x 4 RE                                                              | 11,1                                           | 231                                    |
| 3 x 6 RE                                                              | 12,2                                           | 302                                    |
| 3 x 10 RE                                                             | 14,2                                           | 454                                    |
| 3 x 16 RE                                                             | 16,4                                           | 683                                    |
| 3 x 25 RM                                                             | 20,9                                           | 1070                                   |
| 3 x 35 RM                                                             | 23,5                                           | 1407                                   |
| 3 x 50 RM                                                             | 27,4                                           | 1937                                   |
| 3 x 70 RM                                                             | 31,1                                           | 2631                                   |
| 3 x 95 RM                                                             | 34,9                                           | 3531                                   |

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|             |      |       |
|-------------|------|-------|
| 3 x 120 RM  | 38,9 | 4352  |
| 3 x 150 RM  | 44,3 | 5599  |
| 3 x 185 RM  | 47,9 | 6759  |
| 3 x 240 RM  | 54,4 | 8628  |
| 3 x 300 RM  | 59,1 | 10447 |
| 4 x 1,5 RE  | 10,0 | 157   |
| 4 x 2,5 RE  | 10,9 | 207   |
| 4 x 4 RE    | 12,1 | 278   |
| 4 x 6 RE    | 13,3 | 372   |
| 4 x 10 RE   | 15,5 | 564   |
| 4 x 16 RE   | 18,0 | 858   |
| 4 x 25 RM   | 23,0 | 1343  |
| 4 x 35 RM   | 26,1 | 1790  |
| 4 x 50 RM   | 30,6 | 2480  |
| 4 x 70 RM   | 34,4 | 3327  |
| 4 x 95 RM   | 39,1 | 4533  |
| 4 x 120 RM  | 43,1 | 5525  |
| 4 x 150 RM  | 49,1 | 7114  |
| 4 x 185 RM  | 53,1 | 8606  |
| 4 x 240 RM  | 60,4 | 10990 |
| 5 x 1,5 RE  | 10,8 | 184   |
| 5 x 2,5 RE  | 11,9 | 245   |
| 5 x 4 RE    | 13,1 | 333   |
| 5 x 6 RE    | 14,7 | 455   |
| 5 x 10 RE   | 17,0 | 682   |
| 5 x 16 RE   | 20,0 | 1054  |
| 5 x 25 RM   | 25,6 | 1649  |
| 5 x 35 RM   | 28,8 | 2181  |
| 5 x 50 RM   | 33,8 | 3023  |
| 5 x 70 RM   | 38,5 | 4114  |
| 5 x 95 RM   | 43,2 | 5548  |
| 5 x 120 RM  | 47,7 | 6768  |
| 5 x 150 RM  | 54,5 | 8719  |
| 5 x 185 RM  | 53,4 | 9974  |
| 7 x 1,5 RE  | 11,9 | 231   |
| 7 x 2,5 RE  | 13,0 | 311   |
| 7 x 4 RE    | 14,9 | 447   |
| 7 x 6 RE    | 16,4 | 600   |
| 10 x 1,5 RE | 15,1 | 335   |
| 10 x 2,5 RE | 16,7 | 452   |
| 10 x 4 RE   | 18,6 | 623   |
| 12 x 1,5 RE | 15,5 | 373   |
| 12 x 2,5 RE | 17,2 | 508   |
| 12 x 4 RE   | 19,2 | 707   |
| 14 x 1,5 RE | 16,3 | 416   |
| 14 x 2,5 RE | 18,0 | 571   |
| 14 x 4 RE   | 20,1 | 799   |
| 19 x 1,5 RE | 18,4 | 546   |

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|             |      |      |
|-------------|------|------|
| 19 x 2,5 RE | 20,4 | 752  |
| 19 x 4 RE   | 22,7 | 1057 |
| 24 x 1,5 RE | 21,2 | 681  |
| 24 x 2,5 RE | 23,6 | 942  |
| 30 x 1,5 RE | 22,4 | 800  |
| 30 x 2,5 RE | 24,9 | 1119 |
| 37 x 1,5 RE | 24,4 | 949  |
| 37 x 2,5 RE | 27,2 | 1337 |
| 40 x 1,5 RE | 24,8 | 1010 |
| 40 x 2,5 RE | 27,7 | 1427 |
| 47 x 1,5 RE | 27,4 | 1167 |
| 47 x 2,5 RE | 30,6 | 1654 |

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