



N2XS(F)2Y

Medium Voltage Cables



DESCRIPTION

The N2XS(F)2Y cable is a longitudinally watertight medium-voltage cable with a copper conductor, XLPE insulation, and a durable PE sheath. It combines high electrical safety with a rugged outer layer, making it ideal for demanding grid operation applications.

TECHNICAL DATA

| | | | |
|--|-----------------------|--|---------|
| Al Foil | No | CE-Conformity | yes |
| Colour of insulation | uncoloured | Colour of sheath | black |
| Conductive tape below screen | Yes | Conductor | Copper |
| Copper wire screen and tape | Yes | CPR class | Fca |
| Flame retardant | no | Insulation | XLPE |
| Maximal operating conductor temperature (°C) | +90 | Maximal short-circuit temperature (°C) | +250 |
| Minimal storage temperature (°C) | -35 | Minimal temperature for laying (°C) | -20 |
| Minimum sheath thickness (mm) | 2.1 | Nominal insulation thickness (mm) | 5.5 |
| Non conducting tape above screen | Yes | Operating temperature range (°C) | -35-+90 |
| Packaging | wooden or metal drums | Rated voltage (kV) | 12/20 |
| Sheath | PE | Test voltage (kV) | 42 |



N2XS(F)2Y

CROSS-SECTION DATA — 12/20 kV

| | | |
|---|--|---|
| Voltage 12/20 kV | Test voltage 42 kV | Operating temperature range -35+90 °C |
| Conductor temperature (max.) +90 °C | Short-circuit temperature (max.) +250 °C | Minimum laying temperature -20 °C |
| Minimum storage temperature -35 °C | CPR class Fca | Flame retardant no |

| Designation | Cond. | C [uF/km] | DI [mm] | RI [Ohm/km] | Wi [mm] | Ibl [A] | Ibe [A] | Ik [kA] | Wm [mm] | Rbv [mm] | Ø [mm] | G [kg/km] |
|-------------|-------|-----------|---------|-------------|---------|---------|---------|---------|---------|----------|--------|-----------|
| 1x35/16 | Cu | 0.16 | 19.5 | 0.524 | 5.5 | 200 | 189 | 5 | 2.1 | 420 | 28 | 949 |
| 1x50/16 | Cu | 0.17 | 20.5 | 0.387 | 5.5 | 239 | 222 | 7.1 | 2.1 | 435 | 29 | 1079 |
| 1x70/16 | Cu | 0.19 | 22.1 | 0.268 | 5.5 | 297 | 271 | 10 | 2.1 | 465 | 31 | 1315 |
| 1x95/16 | Cu | 0.21 | 23.6 | 0.193 | 5.5 | 361 | 323 | 13.6 | 2.1 | 480 | 32 | 1580 |
| 1x120/16 | Cu | 0.23 | 25.1 | 0.153 | 5.5 | 416 | 367 | 17.1 | 2.1 | 510 | 34 | 1862 |
| 1x150/25 | Cu | 0.25 | 26.5 | 0.124 | 5.5 | 470 | 409 | 21.4 | 2.1 | 525 | 35 | 2212 |
| 1x185/25 | Cu | 0.27 | 28.1 | 0.099 | 5.5 | 538 | 461 | 26.4 | 2.1 | 555 | 37 | 2585 |
| 1x240/25 | Cu | 0.3 | 30.6 | 0.075 | 5.5 | 634 | 532 | 34.3 | 2.1 | 585 | 39 | 3181 |
| 1x300/25 | Cu | 0.33 | 33 | 0.06 | 5.5 | 724 | 599 | 42.9 | 2.1 | 630 | 42 | 3851 |
| 1x400/35 | Cu | 0.36 | 35.6 | 0.047 | 5.5 | 829 | 671 | 57.2 | 2.1 | 660 | 44 | 4795 |
| 1x500/35 | Cu | 0.4 | 38.8 | 0.037 | 5.5 | 953 | 754 | 71.4 | 2.1 | 705 | 47 | 5873 |