

N2XSEYFGbY Cable



Construction

1. Class 2 stranded copper conductor
2. Inner semi-conductive layer
3. XLPE insulation
4. Outer semi-conductive layer
5. Semi-conductive tape
6. Copper wire screen
7. Filler
8. PVC Separation sheath
9. Galvanized flat steel wire
10. Galvanized steel tape
11. PVC outer sheath (red or black)

Applications

The N2XSEYFGbY is a heavy-duty medium voltage cable engineered for primary power distribution in demanding environments, including industrial plants, power stations, and critical data center infrastructure. Featuring robust mechanical protection, this cable is specifically designed to withstand significant physical stress, making it suitable for versatile installation scenarios such as direct underground burial, submerged conditions, cable ducts, and open-air routing.

Standards

DIN VDE 0276-620
IEC 60502-2

Specification

| | |
|--|--|
| Maximum Conductor Temperature: | under normal (90 °C), emergency (130 °C) |
| Max. temperature during short circuit(≤5S) | 250 |
| Minimum Bending Radius | 15x |

Technical Data

| Number of cores and nominal cross section (mm ²) | Overall diameter approx. (mm) | Cable weight approx. (kg/km) | Conductor DC Resistance at 20 (ohm/km) | Current Carrying Capacity at 30°C | |
|--|-------------------------------|------------------------------|--|-----------------------------------|-----------|
| | | | | In Air | In Ground |
| N2XSEYFGbY-3.6/6 KV | | | | | |
| 3x35 | 50.0 | 4355 | 0.5240 | 172 | 154 |
| 3x50 | 53.0 | 5095 | 0.3870 | 205 | 181 |
| 3x70 | 57.5 | 6045 | 0.2680 | 253 | 220 |
| 3x95 | 61.5 | 7165 | 0.1930 | 307 | 263 |
| 3x120 | 65.0 | 8105 | 0.1530 | 352 | 298 |
| 3x150 | 68.0 | 9645 | 0.1240 | 397 | 332 |
| 3x185 | 72.0 | 11055 | 0.0991 | 453 | 374 |
| 3x240 | 77.0 | 13165 | 0.0754 | 529 | 431 |
| 3x300 | 84.5 | 15700 | 0.0601 | 599 | 482 |
| N2XSEYFGbY-6/10 KV | | | | | |
| 3x35 | 54.5 | 4860 | 0.5240 | 172 | 154 |
| 3x50 | 58.0 | 5650 | 0.3870 | 205 | 181 |
| 3x70 | 62.5 | 6670 | 0.2680 | 253 | 220 |
| 3x95 | 66.0 | 7795 | 0.1930 | 307 | 263 |
| 3x120 | 69.5 | 8765 | 0.1530 | 352 | 298 |
| 3x150 | 73.0 | 10330 | 0.1240 | 397 | 332 |
| 3x185 | 76.5 | 11775 | 0.0991 | 453 | 374 |
| 3x240 | 81.5 | 13855 | 0.0754 | 529 | 431 |
| 3x300 | 88.0 | 16295 | 0.0601 | 599 | 482 |
| N2XSEYFGbY-8.7/15 KV | | | | | |
| 3x35 | 60.5 | 5570 | 0.5240 | 172 | 154 |
| 3x50 | 63.5 | 6365 | 0.3870 | 205 | 181 |
| 3x70 | 67.5 | 7395 | 0.2680 | 253 | 220 |
| 3x95 | 71.5 | 8555 | 0.1930 | 307 | 263 |
| 3x120 | 75.0 | 9600 | 0.1530 | 352 | 298 |
| 3x150 | 78.5 | 11195 | 0.1240 | 397 | 332 |
| 3x185 | 82.0 | 12680 | 0.0991 | 453 | 374 |
| 3x240 | 87.0 | 14815 | 0.0754 | 529 | 431 |
| 3x300 | 93.5 | 17320 | 0.0601 | 599 | 482 |
| N2XSEYFGbY-12/20 KV | | | | | |
| 3x35 | 65.5 | 6215 | 0.5240 | 172 | 154 |
| 3x50 | 68.5 | 7070 | 0.3870 | 205 | 181 |
| 3x70 | 73 | 8145 | 0.2680 | 253 | 220 |
| 3x95 | 76.5 | 9310 | 0.1930 | 307 | 263 |
| 3x120 | 80 | 10385 | 0.1530 | 352 | 298 |
| 3x150 | 83.5 | 12050 | 0.1240 | 397 | 332 |
| 3x185 | 87 | 13525 | 0.0991 | 453 | 374 |
| 3x240 | 92 | 15700 | 0.0754 | 529 | 431 |
| 3x300 | 98.5 | 18220 | 0.0601 | 599 | 482 |