

// Application

These are cables with low dielectric losses used in energy networks with sudden load changes where mechanical stresses are expected. Laid in residential or industrial areas, underground or in ducts.

// Construction

1. Stranded copper conductor.
2. Inner semi-conductive layer.
3. XLPE insulation.
4. Outer semi-conductive layer.
5. Semi-conductive tape.
6. Copper tape screen.
7. Filler.
8. PVC inner jacket.
9. Galvanized double steel tape.
10. PVC outer jacket.

// Cable Summary

| | |
|--------------------------------|------------------------------|
| Max. operating temperature | : 90°C |
| Max. short circuit temperature | : 250 °C |
| Rated voltage | : 5.8/10 kV or 6.35/11 kV |
| Min. bending radius | : 15 x D |

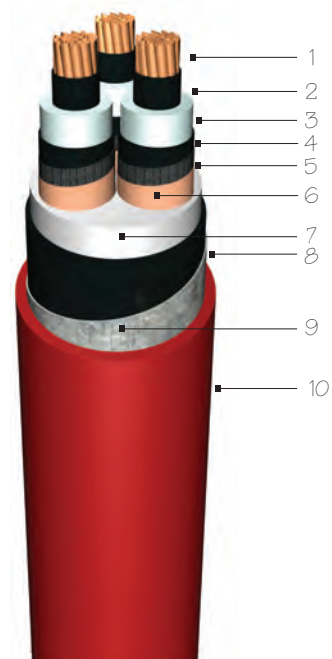
D = Cable outer diameter

// Standards

YXC8VZ4V-R | N2XSEYBY | CU/XLPE/CTS/PVC/STA/PVC

// Code

YXC8VZ3V-R | N2XSEYFGY
R: Stranded Conductor Rigid



Electrical Properties

| DC Conductor Resistance @ 20 °C | Operation Inductance (approx.) | Operation Capacitance (approx.) | Current Carrying Capacity | |
|--|--------------------------------------|---------------------------------------|------------------------------|-------------------|
| | | | in Ground @ 20 °C | in Air @ 30 °C |
| ohm/km | mH/km | µF/km | | |
| 0.7270 | 0.392 | 0.173 | 148 | 143 |
| 0.5240 | 0.374 | 0.189 | 178 | 173 |
| 0.3870 | 0.355 | 0.209 | 210 | 206 |
| 0.2680 | 0.336 | 0.236 | 256 | 257 |
| 0.1930 | 0.320 | 0.263 | 307 | 313 |
| 0.1530 | 0.308 | 0.291 | 349 | 360 |
| 0.1240 | 0.299 | 0.314 | 392 | 410 |
| 0.0991 | 0.290 | 0.341 | 443 | 469 |
| 0.0754 | 0.278 | 0.387 | 513 | 553 |
| 0.0601 | 0.270 | 0.422 | 576 | 635 |
| 0.0470 | 0.261 | 0.475 | 650 | 731 |

Dimensions & Weights

| Nominal Cross Section | Overall Dia. (approx.) | Net Weight (approx.) | Delivery Length |
|-----------------------------|------------------------------|----------------------------|--------------------|
| mm ² | mm | kg/km | m |
| 3x25/16 | 50.0 | 3500 | 1000 |
| 3x35/16 | 51.5 | 3950 | 1000 |
| 3x50/16 | 54.5 | 4650 | 1000 |
| 3x70/16 | 58.5 | 5600 | 500 |
| 3x95/16 | 63.0 | 6800 | 500 |
| 3x120/16 | 67.0 | 7900 | 500 |
| 3x150/25 | 70.0 | 9100 | 500 |
| 3x185/25 | 74.5 | 10550 | 250 |
| 3x240/25 | 81.5 | 13000 | 250 |
| 3x300/25 | 88.0 | 15900 | 250 |
| 3x400/35 | 96.0 | 19800 | 250 |

