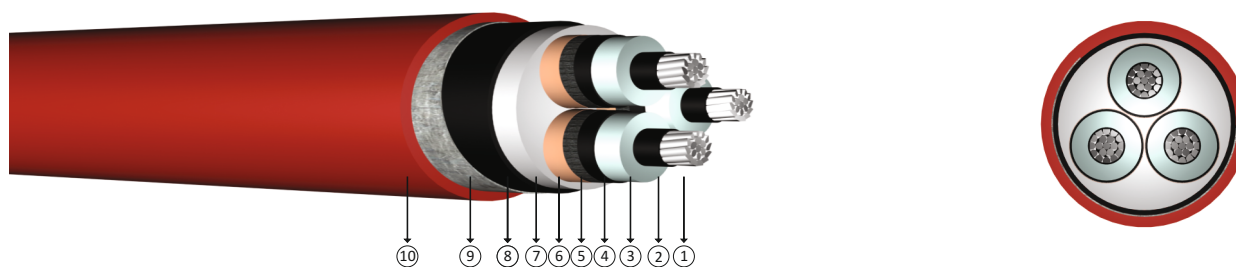




18/30 kV or 19/33 kV XLPE insulated aluminium tape armoured, three core cables with aluminium conductor



Code: NA2XSEYB(A)Y, AL/XLPE/CTS/PVC/ATA/PVC

R: Stranded Conductor Rigid

Standards: IEC 60502 - 2, VDE 0276-620, BS 6622

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 18/30 kV
 : 19/33 kV
 Min. bending radius : 15 x D
 D : Cable outer diameter

Application

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

Construction

- 1 Stranded aluminium conductor
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive tape
- 6 Copper screen
- 7 Filler
- 8 Inner sheath
- 9 Aluminium tape
- 10 PVC outer jacket

| DIMENSION AND WEIGHTS | | | | ELECTRICAL PROPERTIES | | | | |
|-----------------------|---------------------------|---------------------|-----------------|--------------------------------------|-------------------------------|--------------------------------|-------------------------------|-----------------|
| Nominal Cross Section | Overall Diameter (approx) | Net Weight (approx) | Delivery Length | DC Conductor Resistance at 20 °C Max | Operation Inductance (approx) | Operation Capacitance (approx) | Current Carrying Capacity (A) | |
| mm ² | mm | kg/km | m | ohm/km | mH/km | µF/km | In ground at 20 °C | In air at 30 °C |
| 3x35/16 | 73,0 | 7334 | 500 | 0,8680 | 0,457 | 0,114 | - | - |
| 3x50/16 | 75,9 | 7941 | 500 | 0,6410 | 0,434 | 0,124 | 166 | 164 |
| 3x70/16 | 80,1 | 8819 | 500 | 0,4430 | 0,410 | 0,137 | 204 | 204 |
| 3x95/16 | 85,3 | 10719 | 500 | 0,3200 | 0,389 | 0,150 | 244 | 248 |
| 3x120/16 | 88,8 | 11597 | 250 | 0,2530 | 0,372 | 0,163 | 278 | 284 |
| 3x150/25 | 92,2 | 12481 | 250 | 0,2060 | 0,360 | 0,174 | 312 | 326 |
| 3x185/25 | 96,2 | 13600 | 250 | 0,1640 | 0,348 | 0,188 | 343 | 374 |
| 3x240/25 | 102,4 | 15406 | 250 | 0,1250 | 0,331 | 0,209 | 398 | 440 |
| 3x300/25 | 106,8 | 16833 | 250 | 0,1000 | 0,321 | 0,226 | - | - |
| 3x400/35 | 114,5 | 19304 | 250 | 0,0778 | 0,307 | 0,251 | - | - |

Note : Current carrying capacities are valid under the following conditions;
 In ground : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7
 In air : 30 °C, load factor 1.0
 Number of system : 1