

N2XSEKBY / NA2XSEKBY 3.6/6 (7.2) kV

Copper or Aluminium Conductor , XLPE Insulated
Copper wire / tape screened, Lead sheathed, Zinc-coated steel tape armoured, PVC Sheathed Cable



- 1. Conductor : Copper or aluminum (compacted circular stranded)
- 2. Conductor screen : Extruded semi conductive compound
- 3. Insulation : Extruded Cross Linked Polyethylene (XLPE)
- 4. Insulation screen : Extruded Strippable semi conductive compound
- 5. Metallic Screen : Helically Overlapped copper tape
- 6. Inner Sheath : Extruded PVC 90° C grade
- 7. Metallic Sheath : Extruded Lead Alloy
- 8. Separation Sheath : Extruded PVC 90° C grade
- 9. Armour : Helically Overlapped Galvanized Steel Tape (Double Tape)
- 10. Outer Sheath : Extruded PVC 90° C grade

MEDIUM VOLTAGE XPLE INSULATED CABLE

TECHNICAL DATA



Specification : IEC 60502



Conductor Shape : Copper or aluminium (compact)



Application : Used for primary under ground distribution installation direct burial, in petroleum and chemical plants and in areas in which ground water contain waste oil or chemical (sulfides, etc).



AC Test

DIMENSIONAL DATA

3 CORES

| Cross Section Nominal | Conductor Diameter (Approx) | Insulation Thickness Nominal | Insulation Diameter (Approx) | Lead Thickness Nominal | Armour Thickness Nominal | Sheath Thickness Nominal | Cable Net Weight (Approx) | | Min. Bending Radius | Overall Cable Diameter | Std. Length per reel |
|-----------------------|-----------------------------|------------------------------|------------------------------|------------------------|--------------------------|--------------------------|---------------------------|-----------|---------------------|------------------------|----------------------|
| | | | | | | | Cu | Al | | | |
| (mm ²) | (mm) | (mm) | (mm) | (mm) | (mm) | (mm) | (kg / km) | (kg / km) | (mm) | (mm) | (m) |
| 25 | 6.05 | 2.5 | 12.5 | 1.7 | 0.5 | 2.4 | 5.500 | 5.000 | 390 | 46 | 500 |
| 35 | 7.1 | | 13.5 | 1.7 | | 2.5 | 6.100 | 5.400 | 420 | 49 | |
| 50 | 8.25 | | 14.7 | 1.8 | | 2.6 | 7.800 | 6.200 | 450 | 52 | |
| 70 | 9.9 | | 16.3 | 1.9 | | 2.7 | 8.500 | 7.200 | 490 | 56 | |
| 95 | 11.7 | | 18.1 | 2 | | 2.9 | 10.100 | 8.200 | 550 | 61 | |
| 120 | 13.1 | | 19.5 | 2.1 | | 3.0 | 11.600 | 9.200 | 590 | 65 | |
| 150 | 14.3 | | 20.7 | 2.2 | | 3.1 | 13.100 | 10.300 | 620 | 68 | |
| 185 | 16.3 | | 22.7 | 2.3 | | 3.2 | 15.300 | 11.700 | 670 | 73 | |
| 240 | 18.7 | 2.6 | 25.3 | 2.5 | 3.5 | 18.700 | 13.900 | 740 | 80 | 330 | |
| 300 | 20.9 | 2.8 | 27.9 | 2.6 | 0.8 | 3.7 | 23.000 | 17.100 | 820 | 88 | 300 |
| 400 | 23.7 | 3.0 | 31.1 | 2.9 | | 4.0 | 28.200 | 20.700 | 910 | 97 | |

ELECTRICAL DATA

| Cross Section Nominal | Max.DC Resistance at 20° C Conductor | | DC Insulation Resistance at 20° C | Current Carrying Capacity at 30° C - in Air | | Current Carrying Capacity at 30° C - in Ground | | Capacitance per phase | Inductance per phase | Max.Short Circuit Current of Screen | Max.Short Circuit Current of Conductor | |
|-----------------------|--------------------------------------|------------|-----------------------------------|---|-----|--|-----|-----------------------|----------------------|-------------------------------------|--|----------|
| | Cu | Al | | M.Ohm.km | Cu | Al | Cu | | | | Al | Cu |
| (mm ²) | (ohm / km) | (ohm / km) | M.Ohm.km | A | A | A | A | uF / km | mH / km | kA / Sec | kA / Sec | kA / Sec |
| 25 | 0.727 | 1.200 | 900 | 131 | 100 | 130 | 99 | 0.164 | 0.322 | 1.90 | 3.73 | 2.49 |
| 35 | 0.524 | 0.868 | 800 | 169 | 130 | 167 | 128 | 0.184 | 0.308 | 2.05 | 5.18 | 3.45 |
| 50 | 0.387 | 0.641 | 700 | 202 | 156 | 198 | 152 | 0.204 | 0.298 | 2.21 | 7.36 | 4.89 |
| 70 | 0.268 | 0.443 | 600 | 252 | 195 | 241 | 187 | 0.235 | 0.284 | 2.44 | 10.26 | 6.81 |
| 95 | 0.193 | 0.320 | 500 | 307 | 235 | 289 | 224 | 0.267 | 0.273 | 2.69 | 13.88 | 9.19 |
| 120 | 0.153 | 0.253 | | 353 | 273 | 329 | 255 | 0.291 | 0.266 | 2.89 | 17.49 | 11.58 |
| 150 | 0.124 | 0.206 | | 403 | 309 | 369 | 286 | 0.313 | 0.261 | 3.05 | 21.81 | 14.43 |
| 185 | 0.0991 | 0.164 | 400 | 461 | 354 | 417 | 325 | 0.348 | 0.254 | 3.33 | 26.86 | 17.76 |
| 240 | 0.0754 | 0.125 | | 544 | 414 | 484 | 378 | 0.382 | 0.249 | 3.70 | 34.78 | 22.98 |
| 300 | 0.0601 | 0.100 | | 617 | 472 | 544 | 406 | 0.403 | 0.246 | 4.06 | 43.41 | 28.67 |
| 400 | 0.047 | 0.0778 | | 746 | 582 | 613 | 485 | 0.431 | 0.243 | 4.51 | 57.79 | 38.14 |