

18/30 (36) KV Multi Core STA Cables

Single Core Cables, with stranded Circular copper or Aluminum conductors, XLPE insulated, copper tape or wire as metallic insulation screen, cores are assembled together with non-hygroscopic polypropylene fillers and wrapped with binder tape, covered with a layer of PVC compound as bedding, steel tape armored and PVC sheathed.



• Cables are produced according to IEC 60502.

| Nominal Cross-sectional area | Max. Conductor Resistance | | Capacitance | Reactance | Current Rating | | Approx. Overall Diameter | Approx. Weight |
|------------------------------|---------------------------|-------------|-------------|-----------|----------------|---------------------------|--------------------------|----------------|
| | DC at 20 °C | AC at 90 °C | | | Ground | Laid in free air (Shaded) | | |
| mm ² | Ω/Km | Ω/Km | µf/km | Ω/Km | A | A | mm | Kg/Km |

3 Core - Cu/XLPE/STA/PVC

| | | | | | | | | |
|-----|--------|--------|------|------|-----|-----|-----|-------|
| 150 | 0.124 | 0.1591 | 0.2 | 0.11 | 355 | 365 | 90 | 11750 |
| 185 | 0.0991 | 0.1276 | 0.21 | 0.11 | 385 | 395 | 95 | 13200 |
| 240 | 0.0754 | 0.0979 | 0.24 | 0.1 | 445 | 460 | 99 | 15560 |
| 300 | 0.0601 | 0.0790 | 0.26 | 0.1 | 480 | 525 | 105 | 17950 |
| 400 | 0.047 | 0.0630 | 0.28 | 0.1 | 545 | 590 | 111 | 21500 |
| 500 | 0.0366 | 0.0508 | 0.32 | 0.09 | 680 | 730 | 117 | 25500 |

3 Core - AL/XLPE/STA/PVC

| | | | | | | | | |
|-----|--------|--------|------|------|-----|-----|-----|-------|
| 150 | 0.206 | 0.2647 | 0.2 | 0.11 | 260 | 295 | 90 | 9050 |
| 185 | 0.164 | 0.2110 | 0.21 | 0.11 | 300 | 340 | 95 | 9900 |
| 240 | 0.125 | 0.1613 | 0.24 | 0.1 | 340 | 365 | 99 | 11100 |
| 300 | 0.1 | 0.1297 | 0.26 | 0.1 | 385 | 405 | 105 | 12300 |
| 400 | 0.0778 | 0.1017 | 0.28 | 0.1 | 430 | 470 | 111 | 14400 |
| 500 | 0.0605 | 0.0802 | 0.32 | 0.09 | 560 | 600 | 117 | 16200 |

The above data is approximate and subjected to manufacturing tolerance.

Cable constructed are based on:

| | |
|-----------------------------|-------------|
| Insulation thickness | 8.0mm |
| PVC ST2 90 °C | Sheath |
| Ambient temperature | 45 °C |
| Ground temperature | 30 °C |
| Thermal resistivity of soil | 120 °C cm/w |
| Depth of laying | 80 cm |
| Trefoil Formation | |