

8.7/15 (17.5) KV Multi Core SWA Cables

Three 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 wire armored and PVC sheathed.



Cables are produced according to IEC 60502 or BS 6622.

| 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/SWA/PVC

| | | | | | | | | |
|-----|--------|--------|------|-------|-----|-----|-----|-------|
| 150 | 0.124 | 0.1594 | 0.31 | 0.1 | 350 | 400 | 77 | 10985 |
| 185 | 0.0991 | 0.1280 | 0.34 | 0.095 | 395 | 415 | 81 | 12235 |
| 240 | 0.0754 | 0.0984 | 0.38 | 0.09 | 455 | 495 | 89 | 16060 |
| 300 | 0.0601 | 0.0796 | 0.42 | 0.088 | 530 | 580 | 94 | 18410 |
| 400 | 0.047 | 0.0638 | 0.46 | 0.087 | 590 | 660 | 101 | 21300 |
| 500 | 0.0366 | 0.0518 | 0.52 | 0.08 | 670 | 750 | 114 | 25670 |

3 Core - AL/XLPE/SWA/PVC

| | | | | | | | | |
|-----|--------|--------|------|-------|-----|-----|-----|-------|
| 150 | 0.206 | 0.2649 | 0.31 | 0.1 | 270 | 300 | 77 | 8285 |
| 185 | 0.164 | 0.2113 | 0.34 | 0.095 | 310 | 340 | 81 | 8835 |
| 240 | 0.125 | 0.1617 | 0.38 | 0.09 | 350 | 390 | 89 | 11660 |
| 300 | 0.1 | 0.1300 | 0.42 | 0.088 | 405 | 445 | 94 | 13130 |
| 400 | 0.0778 | 0.1022 | 0.46 | 0.087 | 455 | 515 | 101 | 14200 |
| 500 | 0.0605 | 0.0808 | 0.52 | 0.08 | 530 | 620 | 114 | 16020 |

The above data is approximate and subjected to manufacturing tolerance.

Cable constructed are based on:

| | |
|-----------------------------|-------------|
| Insulation thickness | 4.5mm |
| 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 | |