

18/30 (36) 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	0.1591	0.2	0.11	355	365	96	14100
185	0.0991	0.1276	0.21	0.11	385	395	99	15800
240	0.0754	0.0979	0.24	0.1	445	460	105	18800
300	0.0601	0.0790	0.26	0.1	480	525	110	21700
400	0.047	0.0630	0.28	0.1	545	590	116	25080
500	0.0366	0.0508	0.32	0.09	680	730	123	29100

3 Core - AL/XLPE/SWA/PVC

150	0.206	0.2647	0.2	0.11	260	295	96	11400
185	0.164	0.2110	0.21	0.11	300	340	99	12500
240	0.125	0.1613	0.24	0.1	340	365	105	14300
300	0.1	0.1297	0.26	0.1	385	405	110	16050
400	0.0778	0.1017	0.28	0.1	430	470	116	17950
500	0.0605	0.0802	0.32	0.09	560	600	123	19800

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	