

6/10 (12) 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 Sheath.



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	0.1595	0.39	0.12	350	360	75	10885
185	0.0991	0.1282	0.43	0.11	395	409	79	12035
240	0.0754	0.0987	0.48	0.11	450	465	87	15860
300	0.0601	0.0799	0.54	0.1	500	530	92	18400
400	0.047	0.0642	0.59	0.1	545	600	99	21500
500	0.0366	0.0522	0.67	0.1	590	685	112	25500

3 Core - AL/XLPE/SWA/PVC

150	0.206	0.2650	0.39	0.12	270	280	75	8100
185	0.164	0.2114	0.43	0.11	305	320	79	8750
240	0.125	0.1618	0.48	0.11	350	360	87	11500
300	0.1	0.1302	0.53	0.1	390	410	92	12800
400	0.0778	0.1025	0.59	0.1	435	465	99	13900
500	0.0605	0.0811	0.67	0.1	490	555	112	16300

The above data is approximate and subjected to manufacturing tolerance.

Cable constructed are based on:

Insulation thickness	3.4mm
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	