

12/20 (24) 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	0.1592	0.26	0.1	360	370	80	11300
185	0.0991	0.1279	0.28	0.1	390	400	84	12600
240	0.0754	0.0982	0.32	0.1	450	465	92	16400
300	0.0601	0.0794	0.35	0.09	495	530	97	18700
400	0.047	0.0636	0.39	0.09	555	600	104	21700
500	0.0366	0.0514	0.43	0.09	700	745	114	25700

3 Core - AL/XLPE/SWA/PVC

150	0.206	0.2648	0.26	0.1	265	300	80	8600
185	0.164	0.2112	0.28	0.1	305	345	84	9300
240	0.125	0.1615	0.32	0.1	345	370	92	11900
300	0.1	0.1299	0.35	0.09	390	420	97	13300
400	0.0778	0.1020	0.39	0.09	435	480	104	14600
500	0.0605	0.0806	0.43	0.09	570	620	114	16400

The above data is approximate and subjected to manufacturing tolerance.

Cable constructed are based on:

Insulation thickness	5.5mm
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	