

18/30 (36) KV Single Core AWA Cables

Single Core Cables, with stranded Circular copper or Aluminum conductors, XLPE insulated, copper tape or wire as metallic insulation screen, covered with a layer of PVC compound as bedding layer, aluminum 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			Laid in ground		Laid in free air (Shaded)			
					Trefoil	Flat	Trefoil	Flat Touched		
mm ²	Ω/Km	Ω/Km	μf/km	Ω/Km	A	A	A	A	mm	Kg/Km

1 Core - Cu/XLPE/AWA/PVC

150	0.124	0.1589	0.2	0.13	390	380	480	400	48	3000
185	0.0991	0.1274	0.21	0.13	440	425	545	455	50	3500
240	0.0754	0.0975	0.24	0.12	505	490	655	535	52	4130
300	0.0601	0.0784	0.26	0.12	580	550	750	610	55	5620
400	0.047	0.0623	0.28	0.11	660	620	870	695	62	6900
500	0.0366	0.0498	0.32	0.11	755	690	1010	800	64	7800
630	0.0283	0.0402	0.35	0.1	860	770	1050	920	68	9500
800	0.0221	0.0333	0.39	0.1	970	830	1100	1140	74	12100

1 Core - AL/XLPE/AWA/PVC

150	0.206	0.2646	0.2	0.13	300	290	370	310	48	2080
185	0.164	0.2109	0.21	0.13	340	325	425	350	50	2400
240	0.125	0.1611	0.24	0.12	400	380	500	415	52	2650
300	0.1	0.1293	0.26	0.12	445	430	580	470	55	3700
400	0.0778	0.1012	0.28	0.11	515	495	680	550	62	4500
500	0.0605	0.0796	0.32	0.11	590	550	800	635	64	4800
630	0.0469	0.0628	0.35	0.1	670	670	850	740	68	5580
800	0.0367	0.0506	0.39	0.1	805	830	890	900	74	7000

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	