

12/20 (24) 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		

1 Core - Cu/XLPE/AWA/PVC

150	0.124	0.1590	0.26	0.11	394	378	485	403	44	2820
185	0.0991	0.1275	0.28	0.1	446	425	546	456	46	3300
240	0.0754	0.0977	0.32	0.1	510	488	646	537	47	3930
300	0.0601	0.0786	0.35	0.1	583	551	741	613	54	5420
400	0.047	0.0625	0.39	0.09	640	609	874	694	55	6320
500	0.0366	0.0501	0.43	0.09	735	682	1007	793	63	8000
630	0.0283	0.0406	0.48	0.09	845	766	1170	921	66	9310
800	0.0221	0.0338	0.53	0.09	960	830	1245	1040	69	12000

1 Core - AL/XLPE/AWA/PVC

150	0.206	0.2646	0.26	0.11	300	289	370	308	44	1920
185	0.164	0.2109	0.28	0.1	341	326	425	351	46	2200
240	0.125	0.1612	0.32	0.1	400	378	508	413	47	2430
300	0.1	0.1294	0.35	0.1	446	425	580	470	54	3520
400	0.0778	0.1014	0.39	0.09	515	494	692	546	55	3900
500	0.0605	0.0798	0.43	0.09	585	546	748	636	63	4900
630	0.0469	0.0631	0.48	0.09	677	620	864	741	66	5450
800	0.0367	0.0509	0.54	0.09	760	704	969	820	69	7000

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	