

12/20 (24) KV Single Core ATA 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 tape armored and PVC sheath.



• Cables are produced according to IEC 60502.

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/ATA/PVC

150	0.124	0.1590	0.26	0.11	394	378	485	403	42	2600
185	0.0991	0.1275	0.28	0.1	446	425	546	456	44	3080
240	0.0754	0.0978	0.32	0.1	510	488	646	537	45	3800
300	0.0601	0.0788	0.35	0.1	583	551	741	613	51	5200
400	0.047	0.0628	0.39	0.09	640	609	874	694	52	5920
500	0.0366	0.0504	0.43	0.09	735	682	1007	793	60	7600
630	0.0283	0.0409	0.48	0.09	845	766	1170	921	63	8900
800	0.0221	0.0342	0.53	0.09	960	830	1245	1040	67	11400

1 Core - AL/XLPE/ATA/PVC

150	0.206	0.2646	0.26	0.11	300	289	370	308	42	1700
185	0.164	0.2110	0.28	0.1	341	326	425	351	44	1980
240	0.125	0.1613	0.32	0.1	400	378	508	413	45	2300
300	0.1	0.1295	0.35	0.1	446	425	580	470	51	3300
400	0.0778	0.1015	0.39	0.09	515	494	692	546	52	3500
500	0.0605	0.0799	0.43	0.09	585	546	748	636	60	4500
630	0.0469	0.0633	0.48	0.09	677	620	864	741	63	5050
800	0.0367	0.0512	0.54	0.09	760	704	969	820	67	6400

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	