

6/10 (12) 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	Trefoil Touched		
mm ²	Ω/Km	Ω/Km	µf/km	Ω/km	A	A	A	A	mm	Kg/Km

1 Core – Cu/XL/XLPE/PVC

150	0.124	0.16	0.39	0.12	420	370	490	420	33	2300
185	0.0991	0.128	0.43	0.11	440	420	570	440	35	2800
240	0.0754	0.0805	0.48	0.11	580	475	670	520	40	3420
300	0.0601	0.0805	0.53	0.1	660	555	760	610	45	4650
400	0.047	0.064	0.59	0.1	755	620	900	695	50	5700
500	0.0366	0.052	0.67	0.1	845	680	1005	770	53	6400
630	0.0283	0.043	0.74	0.1	1000	755	1230	910	58	8600
800	0.0221	0.0348	0.80	0.09	1150	845	1375	1035	64	11300

1 Core – AL /XL/XLPE/PVC

150	0.206	0.265	0.39	0.12	300	285	380	305	33	1500
185	0.164	0.212	0.43	0.11	340	325	430	350	35	1700
240	0.125	0.163	0.48	0.11	395	375	520	415	40	1950
300	0.1	0.131	0.53	0.1	445	430	590	470	45	2800
400	0.0778	0.1	0.59	0.1	515	480	690	540	50	3300
500	0.0605	0.087	0.66	0.1	585	545	820	635	53	3500
630	0.0469	0.061	0.74	0.1	675	610	970	735	58	4700
800	0.0367	0.0517	0.84	0.09	760	680	1100	1080	64	5600

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	