

8.7/15 (17.5) 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	0.1591	0.31	0.1	405	365	480	410	35	2370
185	0.0991	0.1276	0.34	0.1	435	405	560	430	37	2870
240	0.0754	0.0979	0.38	0.1	570	470	650	510	42	3490
300	0.0601	0.0789	0.42	0.09	650	545	750	600	47	4730
400	0.047	0.0629	0.46	0.09	750	610	890	680	52	6090
500	0.0366	0.0506	0.52	0.09	840	670	990	760	55	7400
630	0.0283	0.0411	0.57	0.081	990	740	1200	906	58	8710
800	0.0221	0.0344	0.64	0.08	1120	830	1300	1005	66	11600

1 Core - AL/XLPE/ATA/PVC

150	0.206	0.2647	0.31	0.1	290	280	370	300	35	1570
185	0.164	0.2110	0.34	0.1	330	320	420	340	37	1770
240	0.125	0.1613	0.37	0.1	390	360	510	405	42	2020
300	0.1	0.1296	0.41	0.09	440	420	570	460	47	2880
400	0.0778	0.1016	0.46	0.09	500	470	670	530	52	3390
500	0.0605	0.0801	0.51	0.09	570	530	800	620	55	4200
630	0.0469	0.0635	0.57	0.081	660	600	950	720	58	4810
800	0.0367	0.0514	0.65	0.08	750	670	1000	1050	66	5900

The above data is approximate and subjected to manufacturing tolerance.

Cable constructed are based on:

Insulation thickness	4.5mm
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	