

## 18/30 (36) 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 <sup>2</sup>	Ω/Km	Ω/Km	µf/km	Ω/Km	A	A	A	A	mm	Kg/Km

### 1 Core - Cu/XLPE/ATA/PVC

150	0.124	0.1589	0.2	0.13	390	380	480	400	45	2980
185	0.0991	0.1274	0.21	0.12	440	425	545	455	47	3400
240	0.0754	0.0976	0.24	0.12	505	490	655	535	49	4200
300	0.0601	0.0785	0.26	0.11	580	550	750	610	52	4900
400	0.047	0.0625	0.28	0.1	660	620	870	695	54	6100
500	0.0366	0.0500	0.32	0.1	755	690	1010	800	62	7800
630	0.0283	0.0404	0.35	0.1	860	770	1050	920	66	8700
800	0.0221	0.0336	0.39	0.1	970	830	1100	1140	71	11500

### 1 Core - AL/XLPE/ATA/PVC

150	0.206	0.2646	0.2	0.13	300	290	370	310	45	2090
185	0.164	0.2109	0.21	0.12	340	325	425	350	47	2280
240	0.125	0.1611	0.24	0.12	400	380	500	415	49	2710
300	0.1	0.1294	0.26	0.11	445	430	580	470	52	3020
400	0.0778	0.1013	0.28	0.1	515	495	680	550	54	3600
500	0.0605	0.0797	0.32	0.1	590	550	800	635	62	4700
630	0.0469	0.0630	0.35	0.1	670	670	850	740	66	5100
800	0.0367	0.0508	0.39	0.1	805	830	890	900	71	6400

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	