

## 6/10 (12) KV Single Core Unarmored Cables

Single Core Cables, with stranded Circular copper or Aluminum conductors, XLPE insulated, copper tape or wire as metallic insulation screen, 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/PVC

150	0.124	0.16	0.39	0.12	420	370	490	420	31	2100
185	0.0991	0.128	0.43	0.11	440	420	570	440	33	2500
240	0.0754	0.0805	0.48	0.11	580	475	670	520	38	3100
300	0.0601	0.0805	0.54	0.1	660	555	760	610	43	4000
400	0.047	0.064	0.59	0.1	755	620	900	695	48	5050
500	0.0366	0.052	0.67	0.1	845	680	1005	770	51	6100
630	0.0283	0.043	0.75	0.1	1000	755	1230	910	54	7500
800	0.0221	0.0348	0.80	0.09	1150	845	1375	1035	62	10050

### 1 Core - AL/XLPE/PVC

150	0.206	0.265	0.39	0.12	300	285	380	305	31	1300
185	0.164	0.212	0.43	0.11	340	325	430	350	33	1420
240	0.125	0.163	0.48	0.11	395	375	520	415	38	1700
300	0.1	0.131	0.53	0.1	445	430	590	470	43	2500
400	0.0778	0.1	0.59	0.1	515	480	690	540	48	2900
500	0.0605	0.087	0.67	0.1	585	545	820	635	51	3500
630	0.0469	0.061	0.74	0.1	675	610	970	735	54	3700
800	0.0367	0.0517	0.85	0.09	760	680	1100	1080	62	5300

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	