

## 8.7/15 (17.5) 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 mm <sup>2</sup>	Max. Conductor Resistance		Capacitance µf/km	Reactance Ω /km	Current Rating				Approx. Overall Diameter mm	Approx. Weight Kg/Km
	DC at 20 °C Ω/Km	AC at 90 °C Ω/Km			Laid in ground		Laid in free air (Shaded)			
					Trefoil	Flat	Trefoil	Flat Touched		

### 1 Core - Cu/XLPE/PVC

150	0.124	0.1592	0.31	0.1	405	365	480	410	33	2170
185	0.0991	0.1278	0.34	0.1	435	405	560	430	35	2570
240	0.0754	0.0981	0.38	0.1	570	470	650	510	40	3170
300	0.0601	0.0792	0.42	0.09	650	545	750	600	45	4050
400	0.047	0.0633	0.46	0.09	750	610	890	680	50	5100
500	0.0366	0.0511	0.52	0.09	840	670	990	760	53	6200
630	0.0283	0.0417	0.57	0.081	990	740	1200	906	56	7600
800	0.0221	0.0351	0.64	0.08	1120	830	1300	1005	64	10100

### 1 Core -AL/XLPE/PVC

150	0.206	0.2648	0.31	0.1	290	280	370	300	33	1370
185	0.164	0.2111	0.34	0.1	330	320	420	340	35	1490
240	0.125	0.1615	0.37	0.1	390	360	510	405	40	1770
300	0.1	0.1298	0.41	0.09	440	420	570	460	45	2580
400	0.0778	0.1019	0.46	0.09	500	470	670	530	50	2990
500	0.0605	0.0804	0.51	0.09	570	530	800	620	53	3600
630	0.0469	0.0639	0.57	0.081	660	600	950	720	56	3810
800	0.0367	0.0519	0.65	0.08	750	670	1000	1050	64	5600

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	