

## 8.7/15 (17.5) KV Single Core AWA 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 wire armored and PVC sheath.



- Cables are produced according to IEC 60502 or BS 6622.

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		
						A	A	A		

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

150	0.124	0.1590	0.31	0.1	405	365	480	410	37	2590
185	0.0991	0.1275	0.34	0.1	435	405	560	430	39	3090
240	0.0754	0.0978	0.38	0.1	570	470	650	510	45	3620
300	0.0601	0.0788	0.42	0.09	650	545	750	600	50	4950
400	0.047	0.0627	0.46	0.09	750	610	890	680	55	6490
500	0.0366	0.0503	0.52	0.09	840	670	990	760	58	7800
630	0.0283	0.0407	0.57	0.081	990	740	1200	906	61	9120
800	0.0221	0.0340	0.64	0.08	1120	830	1300	1005	69	12200

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

150	0.206	0.2646	0.31	0.1	290	280	370	300	37	1770
185	0.164	0.2110	0.34	0.1	330	320	420	340	39	1970
240	0.125	0.1613	0.37	0.1	390	360	510	405	45	2250
300	0.1	0.1295	0.41	0.09	440	420	570	460	50	3100
400	0.0778	0.1015	0.46	0.09	500	470	670	530	55	3690
500	0.0605	0.0799	0.51	0.09	570	530	800	620	58	4600
630	0.0469	0.0632	0.57	0.081	660	600	950	720	61	5200
800	0.0367	0.0511	0.65	0.08	750	670	1000	1050	69	6500

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	