

18/30 (36) 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 sheathed.



• 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 ²	Ω/Km	Ω/Km	μf/km	Ω/Km	A	A	A	A	mm	Kg/Km

1 Core - Cu/XLPE/PVC

150	0.124	0.1590	0.2	0.12	390	380	480	400	41	2580
185	0.0991	0.1275	0.21	0.12	440	425	545	455	43	2980
240	0.0754	0.0977	0.24	0.11	505	490	655	535	45	3650
300	0.0601	0.0787	0.26	0.11	580	550	750	610	48	4400
400	0.047	0.0627	0.28	0.1	660	620	870	695	53	5600
500	0.0366	0.0503	0.32	0.1	755	690	1010	800	56	6600
630	0.0283	0.0408	0.35	0.1	860	770	1050	920	60	8100
800	0.0221	0.0341	0.39	0.09	970	830	1100	1140	66	10400

1 Core - AL/XLPE/PVC

150	0.206	0.2646	0.2	0.12	300	290	370	310	41	1690
185	0.164	0.2110	0.21	0.12	340	325	425	350	43	1880
240	0.125	0.1612	0.24	0.11	400	380	500	415	45	2160
300	0.1	0.1295	0.26	0.11	445	430	580	470	48	2500
400	0.0778	0.1015	0.28	0.1	515	495	680	550	53	3400
500	0.0605	0.0799	0.32	0.1	590	550	800	635	56	3600
630	0.0469	0.0632	0.35	0.1	670	670	850	740	60	4200
800	0.0367	0.0512	0.39	0.09	805	830	890	900	66	5400

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	