

12/20 (24) 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	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	0.1591	0.26	0.11	394	378	485	403	36	2400
185	0.0991	0.1277	0.28	0.1	446	425	546	456	38	2780
240	0.0754	0.0980	0.32	0.1	510	488	646	537	40	3450
300	0.0601	0.0790	0.35	0.1	583	551	741	613	43	4200
400	0.047	0.0631	0.39	0.09	640	609	874	694	47	5300
500	0.0366	0.0508	0.43	0.09	735	682	1007	793	52	6800
630	0.0283	0.0414	0.48	0.09	845	766	1170	921	56	7900
800	0.0221	0.0347	0.53	0.09	960	830	1245	1040	61	10300

1 Core - AL/XLPE/PVC

150	0.206	0.2647	0.26	0.1	300	289	370	308	36	1500
185	0.164	0.2111	0.28	0.1	341	326	425	351	38	1680
240	0.125	0.1614	0.32	0.1	400	378	508	413	40	1950
300	0.1	0.1297	0.35	0.1	446	425	580	470	43	2300
400	0.0778	0.1017	0.39	0.09	515	494	692	546	47	2900
500	0.0605	0.0802	0.43	0.09	585	546	748	636	52	3400
630	0.0469	0.0637	0.48	0.09	677	620	864	741	56	3900
800	0.0367	0.0517	0.54	0.09	760	704	969	820	61	5300

The above data is approximate and subjected to manufacturing tolerance.

Cable constructed are based on:

Insulation thickness	5.5mm
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	