

Extra High Voltage Cables 127/220 (245) kV

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(CU/XLPE/LEAD/HDPE)



Description

Stranded circular compacted or segmental conductor with copper or Aluminum material, Semi Conducting layer as conductor screen, XLPE insulation, Semi Conducting layer as insulation screen, Semi Conductive water blocking tape to protect the metallic screen area from longitudinal water penetration, Lead sheath with suitable thickness to achieve the required cross sectional area that carry the earth fault current and extruded with HDPE Sheathed with semi-conducting extruded material.

Nominal Cross Sectional Area	Max. DC Conductor Resistance at 20 °C	Operating Capacitance	Non-metallic thickness			Outer jacket	Current Rating				Approx. Overall Diameter	Approx Weight
			Conductor Screen	Insulation	Insulation Screen		Laid in Ground		Laid in free Air			
							Trefoil	Flat	Trefoil	Flat		
mm ²	Ω/km	μF/km	mm	mm	mm	mm	A	A	A	A	mm	Kg/km
800 R	0.0221	0.170	1.2	23	1.5	4.5	872	767	1295	1261	101.2	16970
1000 R	0.0176	0.190	1.2	25	1.5	5	1003	842	1541	1453	106	20830
1200 R	0.0151	0.204	1.2	25	1.5	4.5	837	672	1262	1182	91	11325
1600 R	0.0113	0.210	1.2	25	1.5	4.5	1113	1245	2089	2199	130.5	36860
2000 S	0.0090	0.230	1.5	25	1.5	5	1328	1398	2450	2582	134.5	42125
2500 S	0.0072	0.252	1.5	25	1.5	5	1440	1515	2722	2866	147	51425

R: Round
S: Segmental

- The above data is calculating at 100 % load factor.
- The above dimensions are subjected to customer request.
- The current rating for above table was based on double end bond
- The above data is approximate and subjected to manufacturing tolerance.
- The Aluminum conductor can be submitted according to customer request.