

High Voltage Cables 76/132 (145) kV

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(CU/XLPE/CW/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 , copper wire as metallic screen to achieve the required cross sectional area that carry the earth fault current , non-conductive water blocking tape to protect the metallic screen area from longitudinal water penetration, double coated aluminum tape to protect the cable from radial water penetration 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	A	A	A	A	mm	Kg/km	
400 R	0.0470	0.164	1.2	18	1.5	4.5	630	593	875	868	80	12420
500 R	0.0366	0.176	1.2	18	1.5	4.5	709	649	1003	987	83	13760
630 R	0.0283	0.192	1.2	18	1.5	4.5	796	711	1150	1123	87	15190
800 R	0.0221	0.208	1.2	18	1.5	4.5	883	769	1302	1260	91	15505
1000 S	0.0176	0.227	1.5	18	1.5	4.5	1014	844	1533	1463	95	19335
1200 S	0.0151	0.262	1.5	18	1.5	4.5	1076	866	1667	1567	100	21000

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.