

127/220 (245) KV (Cu/XLPE/Lead/HDPE)

Single core Copper conductor, (Stranded circular or segmental compacted) copper conductor, semi-conducting layer as conductor screen, XLPE insulated, semi-conducting layer as non-metallic insulation screen, semi conductive water blocking tape to protect the screen area from longitudinal water penetration, lead sheathed with suitable thickness to withstand the required earth fault current and HDPE sheathed with graphite coating or extruded semi-conducting layer.



• Cables are designed and tested to comply with IEC 60228, 62067 and 60811.

Conductor		continuous current ratings (load factor = 100%) for one circuit in operation (Amperes)				Approx. outer diameter of cable	Approx. weight of cable	Max. DC conductor resistance at 20 °C	Capacitance
		Laying conditions: Trefoil formation		Laying conditions: Flat formation					
Nominal Cross-sectional area	Shape	Direct burial	In air (Shaded)	Direct burial	In air (Shaded)				
mm ²		A	A	A	A	mm	Kg/Km	Ω/Km	µf/km
800 R	Compact round Standard (R)	835	974	875	1250	111	26400	0.0221	0.1685
1000 S		920	1177	1058	1350	116	28000	0.0176	0.178
1200 S	Segment	994	1274	1104	1408	123	30800	0.0151	0.192
1600 S	standard	1125	1490	1260	1705	128	38200	0.0113	0.2148
2000 S	(Milliken) (S)	1200	1650	1407	2000	134	42200	0.0090	0.229

The above data is approximate and subjected to manufacturing tolerance.

Cable constructed are based on:

Insulation thickness	25.0mm
HDPE	Sheath
Ambient temperature	45 °C
Ground temperature	30 °C
Thermal resistivity of soil	120 °C cm/w
Depth of laying	120 cm
Type of Earthing	Cross or Single point bonding