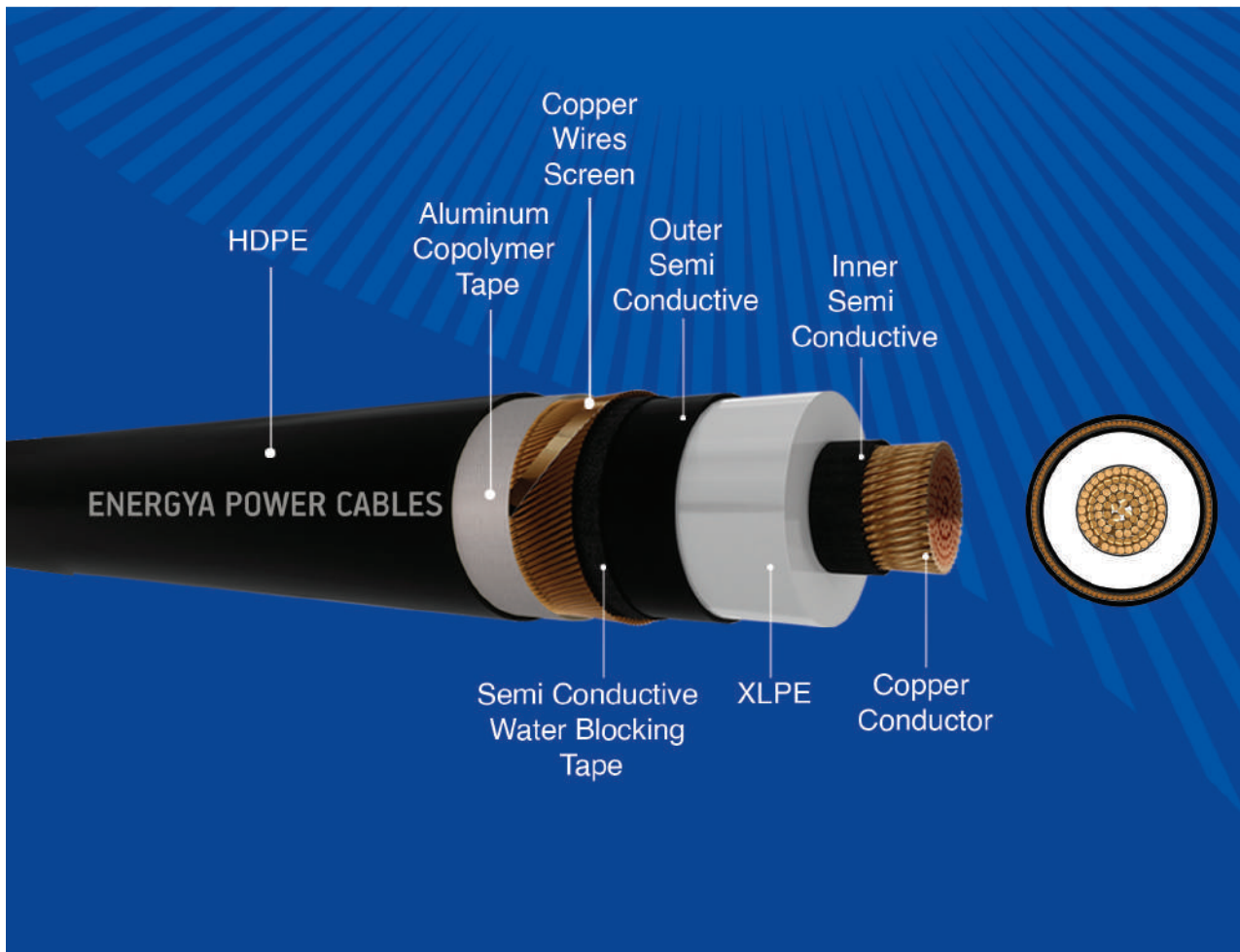


HIGH VOLTAGE CABLES

38 / 66 (72.5) kV



Single Core Copper Conductor, XLPE insulated, Copper Wires Screen and HDPE Sheathed

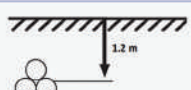

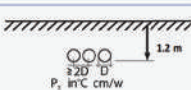
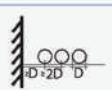
Description

- Stranded circular or segmental compacted copper conductor, semi-conducting layer as a non conductor screen, XLPE as a insulated, semi-conducting layer as a non metallic insulation screen, Semi-conductive water blocking tape, copper wires as a metallic insulation screen to withstand the required earth fault current, non-conductive water blocking tape to protect the screen area from longitudinal water penetration, copolymer aluminum tape to protect the cable from radial water penetration and HDPE sheathed with graphite coating or extruded semi-conducting layer.
- Cables are designed and tested to comply with IEC 60228, IEC 60840, IEC 60811.

Cable Construction

Products Code	Conductor		Thickness of Conductor Screen	Thickness of Insulation	Thickness of Insulation Screen	Screen C.S.A	Thickness of Outer Sheath	Approx. Outer Diameter of Cable	Approx. Weight of Cable	Max. DC Conductor Resistance at 20°C	Capacitance
	Cross Sectional Area	Shape									
	mm ²		mm	mm	mm	mm ²	mm	mm	kg/km	Ω/km	µf/km
RT18B6018X	150 R	Round Compact	1.0	12	1.0	70	3.0	55	3900	0.124	0.173
RT19B6018X	185 R		1.0	12	1.0	70	3.0	58	4300	0.0991	0.186
RT20B6018X	240 R		1.0	12	1.0	70	3.0	61.0	4880	0.0754	0.203
RT30B6018X	300 R		1.0	12	1.0	70	3.0	62.5	5550	0.0601	0.221
RT40B6018X	400 R		1.0	12	1.0	70	3.0	65.0	6300	0.0470	0.239
RT50B6018X	500 R		1.0	12	1.0	70	3.0	69.0	7600	0.0366	0.263
RT60B6018X	630 R		1.0	12	1.0	70	3.5	73.0	9050	0.0283	0.288
RT70B6018X	800 R		1.0	12	1.0	70	3.5	79.0	10985	0.0221	0.319
RT80B6018X	1000 S	Segmental Stranded(S) (Milliken)	1.2	13	1.2	70	3.5	90.0	13600	0.0176	0.380
RT81B6018X	1200 S		1.2	13	1.2	70	3.5	94.0	15560	0.0151	0.395
RT82B6018X	1600 S		1.5	13	1.2	70	4.0	103.0	19900	0.0113	0.453

Cables Current Carrying Capacity

Continuous Current Ratings Load Factor = 100% for one circuit in operation (Amperes)											
Laying conditions: trefoil formation					Laying condition: flat formation						
Type of Earthing Bonding System	Cross Sectional Area	Direct burial		In air (shaded)		Type of Earthing Bonding System	Cross Sectional Area	Direct burial		In air (shaded)	
											
		pT=120 T = 25 °C	pT=150 T = 35 °C	T = 30 °C	T = 40 °C			pT=120 T = 25 °C	pT=150 T = 35 °C	T = 30 °C	T = 40 °C
Bonded at both ends	mm ²						mm ²				
	150 R	357	300	485	438	Cross or single point bonding	150 R	378	318	557	504
	185 R	400	336	553	499		185 R	427	360	639	578
	240 R	459	385	648	584		240 R	496	417	756	684
	300 R	514	430	738	665		300 R	561	471	871	787
	400 R	577	482	845	761		400 R	639	536	1010	913
	500 R	643	538	966	871		500 R	729	611	1175	1061
	630 R	730	614	1110	1005		630 R	810	670	1350	1210
	800 R	811	675	1250	1130		800 R	905	765	1560	1415
	1000 S	920	740	1490	1340		1000 S	1112	929	1840	1660
	1200 S	980	820	1600	1440		1200 S	1200	1002	2000	1800
	1600 S	1090	910	1820	1640		1600 S	1350	1120	2280	2060

• The above data is approximate and subjected to manufacturing tolerance.

R: Round
S: Segmental

