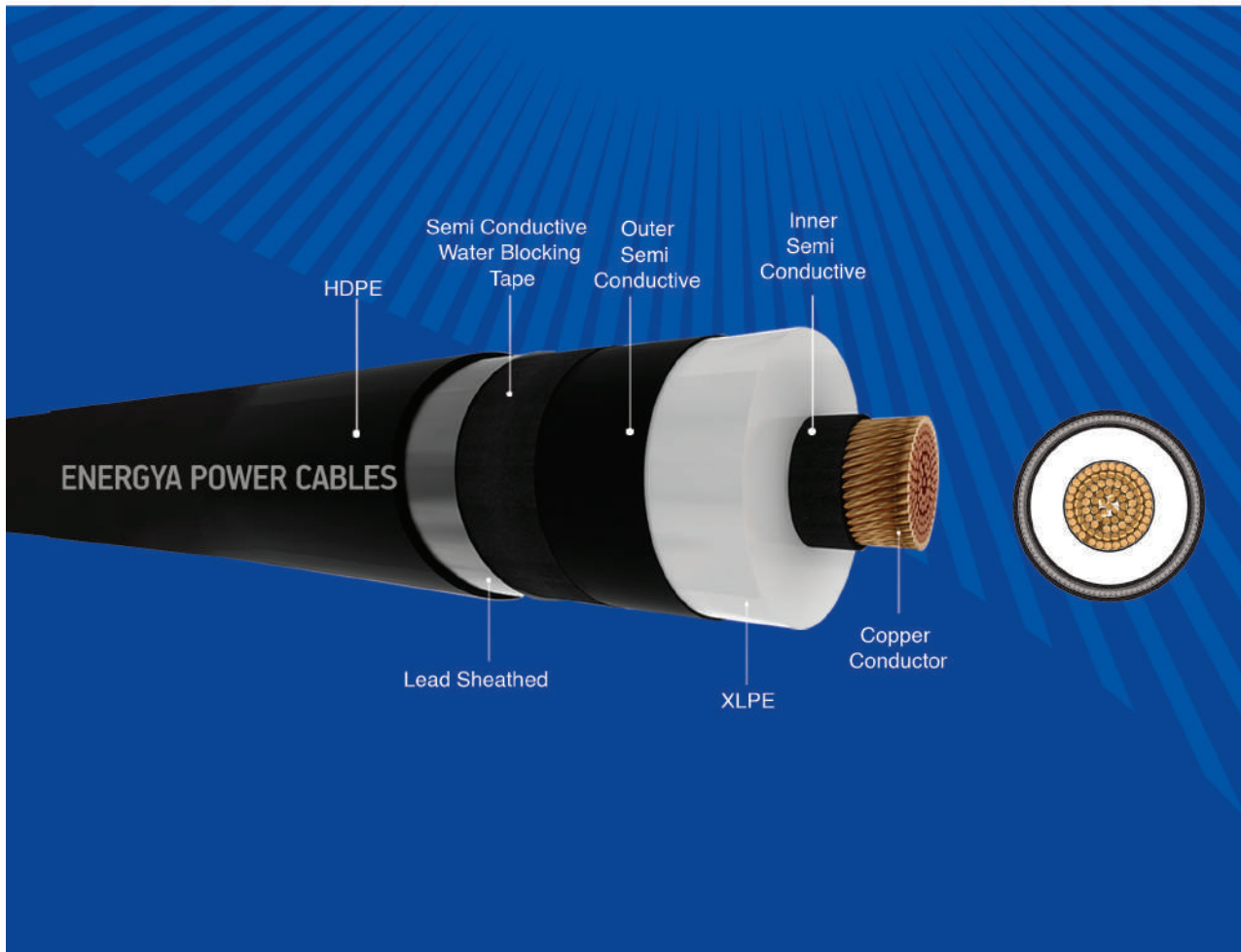


HIGH VOLTAGE CABLES

38 / 66 (72.5) kV



Single Core Copper Conductor, XLPE insulated, Lead Sheathed and HDPE Sheathed

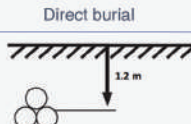

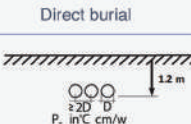
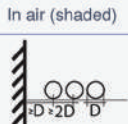
Description

- Stranded circular or segmental compacted copper conductor, semi-conducting layer as a non conductor screen, XLPE insulated, semi-conducting layer as a 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, IEC 60840, IEC 60811.

Cable Construction

Products Code	Conductor		Thickness of Conductor Screen	Thickness of Insulation	Thickness of Insulation Screen	Lead Thickness	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	mm	mm	kg/km	Ω/km	µf/km
RT18B6018X	150 R	Compact Round (R) Stranded	1.0	12	1.0	2.0	3.0	53.0	6100	0.1240	0.173
RT19B6018X	185 R		1.0	12	1.0	2.0	3.0	54.8	6700	0.0991	0.186
RT20B6018X	240 R		1.0	12	1.0	2.0	3.0	57.0	7550	0.0754	0.203
RT30B6018X	300 R		1.0	12	1.0	2.0	3.0	60.0	8400	0.0601	0.221
RT40B6018X	400 R		1.0	12	1.0	2.3	3.0	65.0	10000	0.0470	0.239
RT50B6018X	500 R		1.0	12	1.0	2.3	3.0	69.0	11500	0.0366	0.263
RT60B6018X	630 R		1.0	12	1.0	2.3	3.5	72.0	13500	0.0283	0.288
RT70B6018X	800 R		1.0	12	1.0	2.3	3.5	77.0	15700	0.0221	0.319
RT80B6018X	1000 S	Segmental Stranded (S) (Milliken)	1.2	13	1.2	2.3	3.5	88.0	19200	0.0176	0.380
RT81B6018X	1200 S		1.2	13	1.2	2.3	3.5	93.0	21500	0.0151	0.395
RT82B6018X	1600 S		1.5	13	1.2	3.0	4.0	100.0	27600	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)	
											
	mm ²	pT=120 T = 25 °C	pT=150 T = 35 °C	T = 30 °C	T = 40 °C		mm ²	pT=120 T = 25 °C	pT=150 T = 35 °C	T = 30 °C	T = 40 °C
Bonded at both ends	150 R	364	306	495	446	Cross or single point bonding	150 R	379	319	560	506
	185 R	410	344	565	510		185 R	428	360	642	581
	240 R	473	397	665	600		240 R	497	417	760	687
	300 R	532	445	761	686		300 R	562	472	875	791
	400 R	600	502	876	789		400 R	640	537	1016	918
	500 R	674	563	1007	908		500 R	730	611	1181	1067
	630 R	758	630	1130	1020		630 R	860	725	1320	1195
	800 R	830	690	1270	1150		800 R	971	816	1520	1375
	1000 S	930	770	1500	1350		1000 S	1110	934	1840	1665
	1200 S	980	820	1600	1440		1200 S	1190	995	1998	1840
1600 S	1090	910	1680	1490	1600 S	1200	1005	2075	1875		

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

R: Round
S: Segmental

