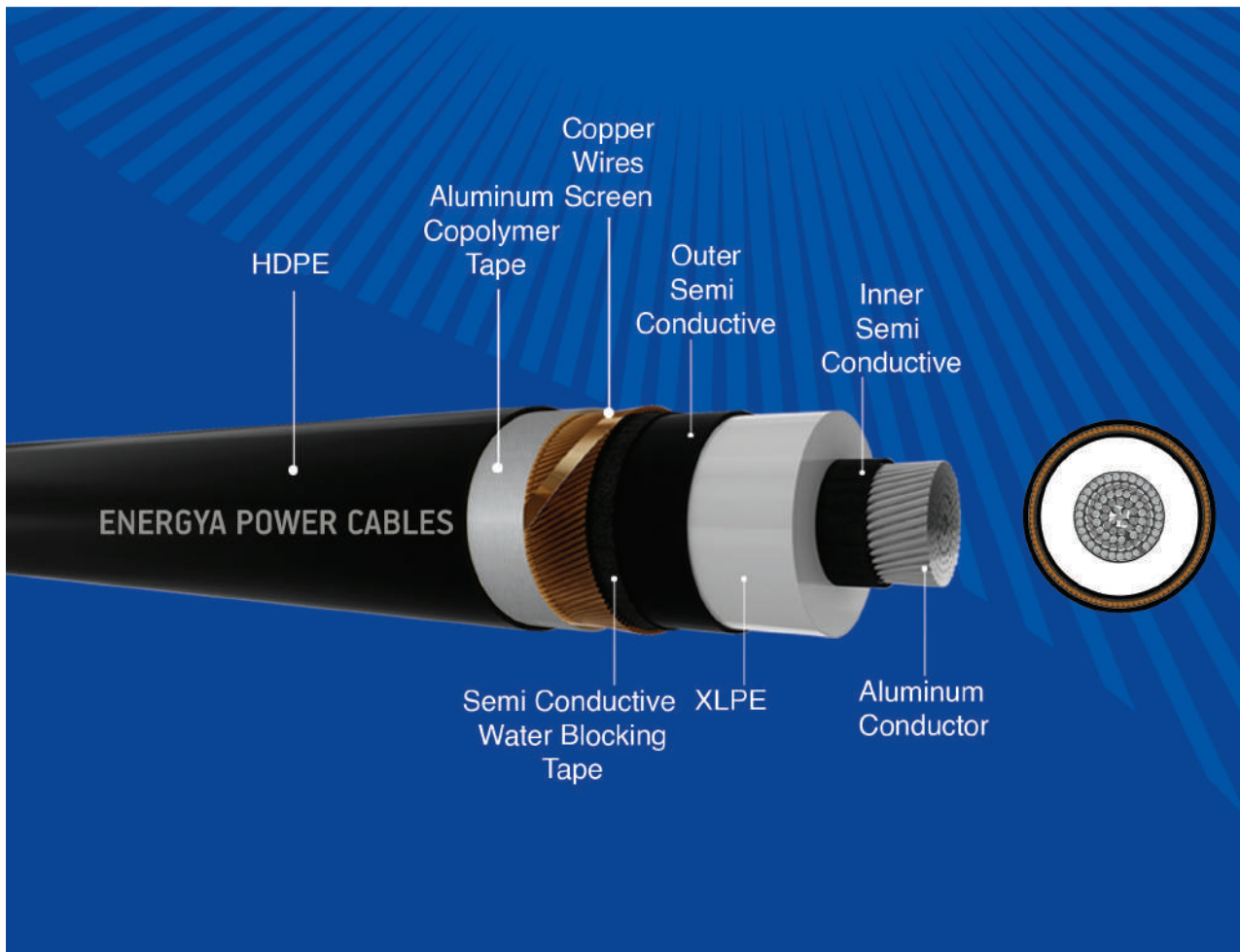


HIGH VOLTAGE CABLES

38 / 66 (72.5) kV



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

Description

- Stranded circular or segmental compacted Aluminum 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, 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										
KT18B6018X	150 R	Round Compact	1.0	12	1.0	70	3.0	55	3050	0.2060	0.173
KT19B6018X	185 R		1.0	12	1.0	70	3.0	58	3200	0.164	0.186
KT20B6018X	240 R		1.0	12	1.0	70	3.0	61.0	3500	0.125	0.203
KT30B6018X	300 R		1.0	12	1.0	70	3.0	62.5	3750	0.1	0.221
KT40B6018X	400 R		1.0	12	1.0	70	3.0	65.0	4205	0.0778	0.239
KT50B6018X	500 R		1.0	12	1.0	70	3.0	69.0	4670	0.0605	0.263
KT60B6018X	630 R		1.0	12	1.0	70	3.5	73.0	5420	0.0469	0.288
KT70B6018X	800 R		1.0	12	1.0	70	3.5	79.0	6230	0.0367	0.319
KZ80B6018X	1000 S	Segmental Stranded(S) (Milliken)	1.2	13	1.2	70	3.5	89.0	7565	0.0291	0.380
KZ81B6018X	1200 S		1.2	13	1.2	70	3.5	93.0	8210	0.0247	0.395
KZ83B6018X	1600 S		1.5	13	1.2	70	4.0	102.0	10105	0.0186	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	150 R	281	237	380	343	Cross or single point bonding	150 R	298	251	432	391
	185 R	317	267	434	392		185 R	337	284	495	448
	240 R	366	307	510	480		240 R	390	328	586	530
	300 R	412	345	583	526		300 R	439	369	673	609
	400 R	469	392	676	610		400 R	502	421	786	711
	500 R	532	445	782	705		500 R	573	480	917	829
	630 R	602	503	907	817		630 R	653	547	1074	971
	800 R	678	565	1047	943		800 R	767	642	1257	1136
	1000 S	785	654	1257	1132		1000 S	891	744	1519	1373
	1200 S	847	705	1370	1234		1200 S	970	810	1671	1510
	1600 S	867	721	1447	1303		1600 S	983	819	1765	1594

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

R: Round
S: Segmental

