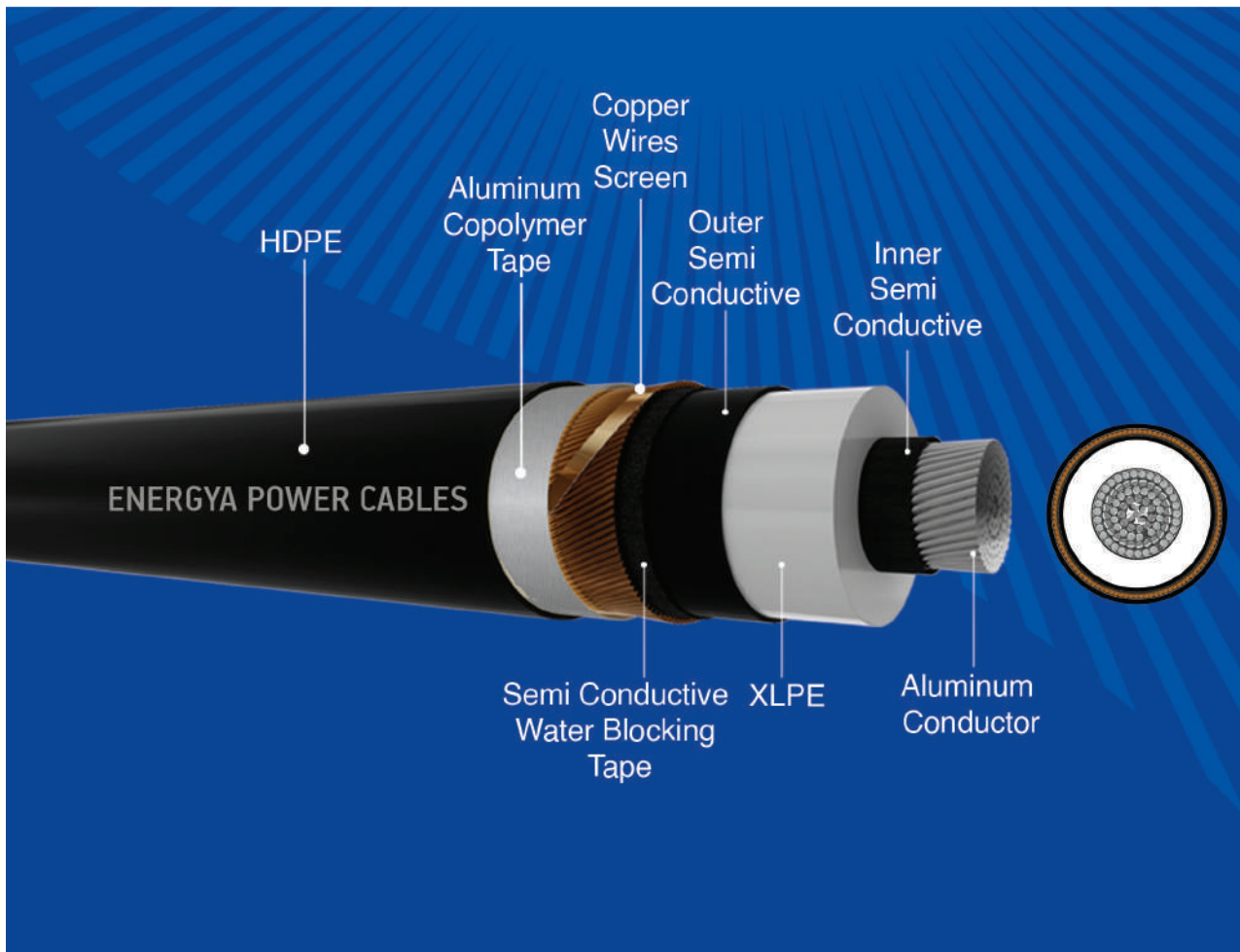


HIGH VOLTAGE CABLES

76 / 132 (145) 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										
RT40B7018X	400 R	Compact Round(R) Stranded	1.2	17	1.1	110.0	3.5	78.0	5905	0.0778	0.172
RT50B7018X	500 R		1.2	17	1.1	110.0	3.5	81.0	6435	0.0605	0.188
RT60B7018X	630 R		1.2	17	1.1	110.0	3.5	85.0	7125	0.0469	0.204
RT70B7018X	800 R		1.2	17	1.1	110.0	3.5	89.0	8025	0.0367	0.220
RZ80B7018X	1000 S	Segmental Stranded(S) (Milliken)	1.2	17	1.2	110.0	3.5	97	9125	0.0291	0.245
RZ81B7018X	1200 S		1.2	17	1.2	110.0	3.5	100.0	9805	0.0247	0.260
RZ83B7018X	1600 S		1.5	17	1.5	110.0	3.5	109	11975	0.0186	0.300
RZ85B7018X	2000 S		1.5	17	1.5	110.0	4.0	116	13330	0.0149	0.320

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	400 R	460	386	667	602	Cross or Single point Bonding	400 R	510	422	767	694
	500 R	521	436	769	694		500 R	579	487	894	809
	630 R	604	505	905	817		630 R	662	555	1047	948
	800 R	680	567	1043	941		800 R	756	633	1220	1104
	1000 S	761	634	1217	1098		1000 S	899	753	1466	1326
	1200 S	909	758	1423	1284		1200 S	978	818	1607	1454
	1600 S	1062	885	1712	1544		1600 S	1140	952	1940	1755
	2000 S	1194	994	1952	1760		2000 S	1291	1077	2217	2006

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

R: Round
S: Segmental

