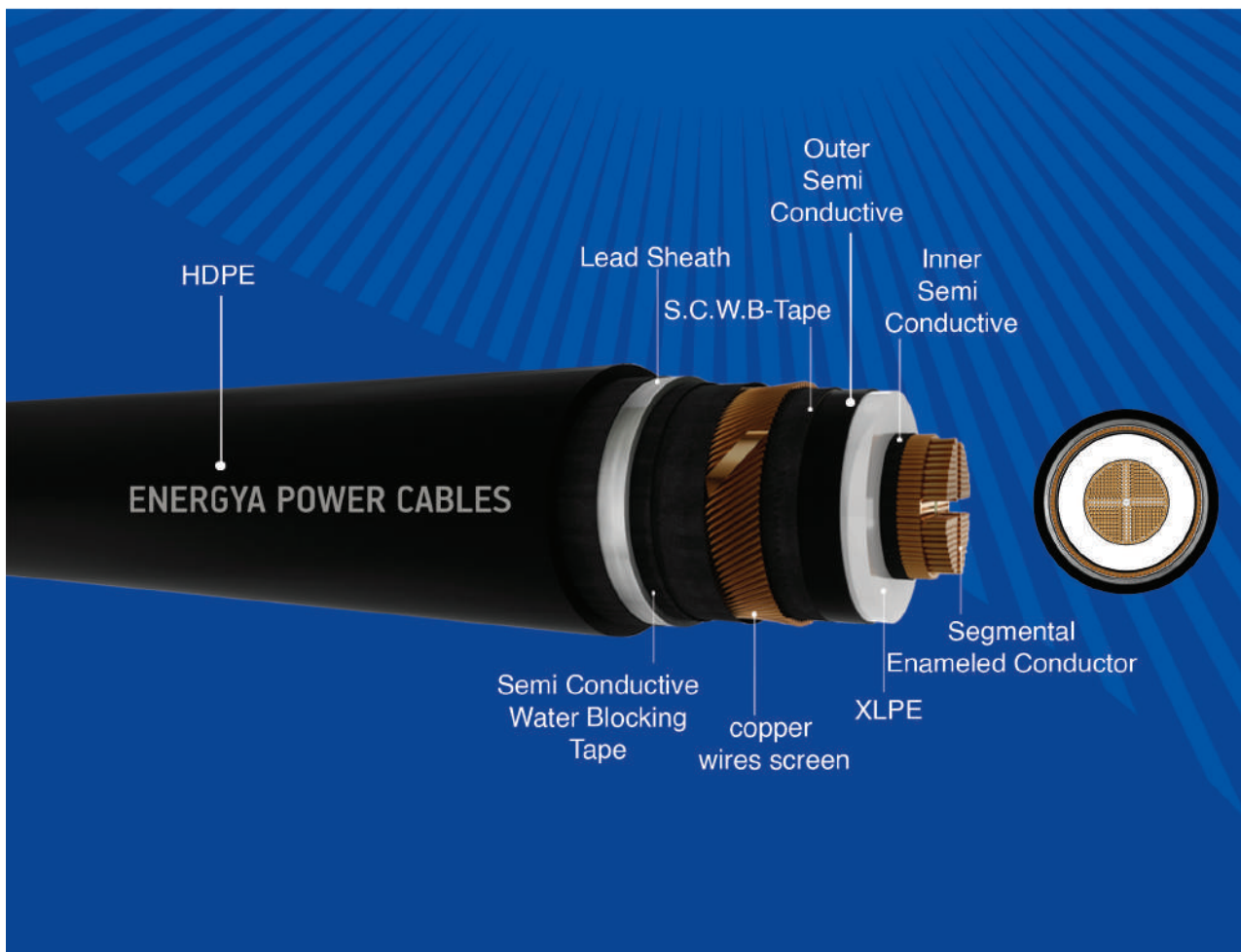


EXTRA HIGH VOLTAGE CABLES

290 / 500 (550) kV



Single Core Enameled Copper Conductor, XLPE insulated, copper wires screen, Lead Sheathed and HDPE Sheathed.

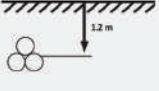

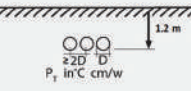
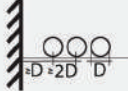
Description

- Stranded segmental compacted Enameled 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 copper wires 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 62067, IEC 60811.

Cable Construction

Product - Code	Conductor		Thickness of Conductor Screen	Thickness of Insulation	Thickness of Insulation Screen	Copper Wires 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 ²	mm	mm	mm	kg/km	Ω/km	μf/km
RZ83BF01LX	1600 S	Segmental Stranded (S) (Milliken)	2.5	30	2	220	4.3	5.5	154.0	51000	0.0113	0.195
RZ85BF01LX	2000 S		2.5	30	2	220	4.3	5.5	160.0	56000	0.0090	0.210
RZ86BF01LX	2500 S		2.5	30	2	220	4.3	5.5	165.0	63000	0.0072	0.220

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
Cross Bonding	1600 S	1146	924	1862	1681	Cross Bonding	1600 S	1233	1000	2340	2150
	2000 S	1244	999	2038	1841		2000 S	1341	1082	2469	2230
	2500 S	1335	1068	2190	1978		2500 S	1439	1157	2758	2490

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

R: Round
S: Segmental

