69 kV CE

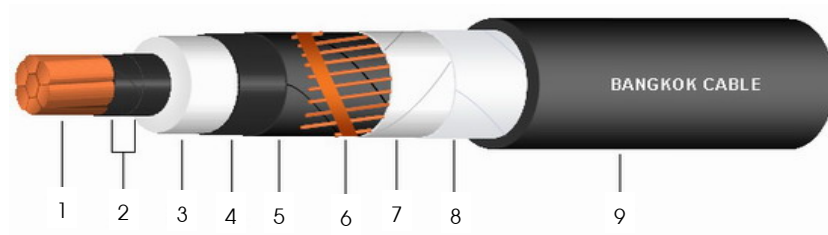### 1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE

Construction

1. Conductor : Circular compact stranded annealed copper
2. Conductor screen : Semi-conductive tape with extruded Semi-conductive cross-linked polyethylene compound
3. Insulation : Cross-linked polyethylene (XLPE) compound
4. Insulation screen : Semi-conductive cross-linked polyethylene compound
5. Water blocking tape : Semi-conductive water blocking tape
6. Metallic screen : Copper wires with copper contact tape
7. Water blocking and Cushioning tape : Non-conductive water blocking tape
8. Radial water barrier : Copolymer aluminium tape
9. Sheath : Black Polyethylene (PE) , (Optional : with RIB)

Reference Standard

IEC 60840

TIS 2202

Classification

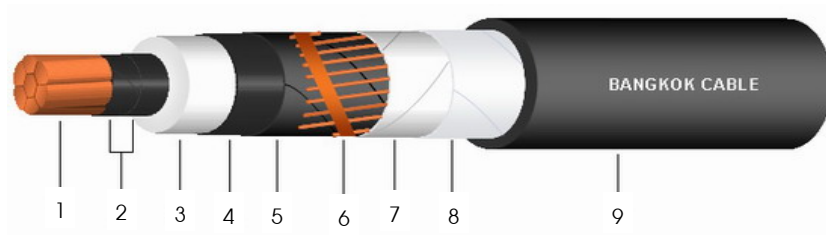|	
Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 72.5 kV
AC test voltage	: 90 kV

Application

Preferably laid in substations, factories and urban area. The cable shall be suitable for use in ducts, trays and direct burial in ground, subjected to immerse in water all time.

Conductor			Thickness of conductor screen	Thickness of insulation	Diameter over insulation	Thickness of insulation screen	Area of metallic screen*	Thickness of sheath	Overall diameter (Excluding Rib)	DC. Conductor resistance at 20°C	Capacitance	Current rating direct burial in ground at 30°C	Cable weight (Excluding Rib)	Standard length
Cross-sectional area	No. of wires	Diameter												
mm²		mm	mm	mm	mm	mm	mm²	mm	mm	Ω/km	μF/km	A	kg/km	m/drum
	(Min.)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	(Nominal)		(Nominal)	(Approx.)	(Max.)	(Nominal)		(Approx.)	
400	53	23.39	1.5	11.0	49.4	1.5	120	3.5	68	0.0470	0.222	690	7,260	500
500	53	26.67	1.5	11.0	52.6	1.5	120	3.5	72	0.0366	0.246	790	8,440	500
630	53	30.22	1.5	11.0	56.2	1.5	120	3.5	75	0.0283	0.269	900	9,960	300
800	53	34.00	1.5	11.0	60.0	1.5	120	3.5	79	0.0221	0.292	1010	11,790	300

* The area of metallic screen can be designed upon request by not less than 95 mm²

69 kV CE

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE

Construction

1. Conductor	: Circular compact stranded annealed copper
2. Conductor screen	: Semi-conductive tape with extruded Semi-conductive cross-linked polyethylene compound
3. Insulation	: Cross-linked polyethylene (XLPE) compound
4. Insulation screen	: Semi-conductive cross-linked polyethylene compound
5. Water blocking tape	: Semi-conductive water blocking tape
6. Metallic screen	: Copper wires with copper contact tape
7. Water blocking and Cushioning tape	: Non-conductive water blocking tape
8. Radial water barrier	: Copolymer aluminium tape
9. Sheath	: Black Polyethylene (PE) , (Optional : with RIB)

Reference Standard

IEC 60840

TIS 2202

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 72.5 kV
AC test voltage	: 90 kV

Application

Preferably laid in substations, factories and urban area. The cable shall be suitable for use in ducts, trays and direct burial in ground, subjected to immerse in water all time.

Conductor cross-sectional area mm^2	AC Resistance of conductor at 90 °C Ω/km (Approx.)	Inductance mH/km (Approx.)	Reactance Ω/km (Approx.)	Impedance Ω/km (Approx.)
400	0.0614	0.587	0.184	0.194
500	0.0486	0.572	0.180	0.186
630	0.0386	0.555	0.174	0.179
800	0.0313	0.542	0.170	0.173

* The area of metallic screen can be designed upon request by not less than 95 mm^2