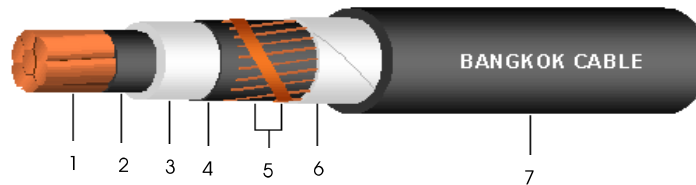


8.7/15(17.5) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular compact stranded annealed copper
2. Conductor screen : Semi-conductive cross-linked polyethylene compound
3. Insulation : Cross-linked polyethylene (XLPE) compound
4. Insulation screen : Semi-conductive cross-linked polyethylene compound
5. Metallic screen : Copper wires with copper contact tape
6. Binding tape : Polyester or Spunbond tape
7. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
 Maximum circuit voltage : 17.5 kV
 AC test voltage : 30.5 kV

Application

For general purpose power distribution in dry or wet location.
 Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

Conductor			Thickness of insulation mm (Nominal)	Diameter over insulation mm (Approx.)	Area of metallic screen mm ²	Thickness of sheath mm (Nominal)	Overall diameter mm (Approx.)	DC, Conductor resistance at 20°C Ω/km (Max.)	Insulation resistance at 20°C MΩ.km (Min.)	Current rating		Cable weight kg/km (Approx.)	Standard length m/drum
Cross-sectional area mm ²	No. of wires (Min.)	Diameter mm (Approx.)								in free air at 40°C ambient A	direct burial in ground at 30°C A		
25	6	5.90	4.5	16.4	10	1.7	25	0.727	3,350	170	150	750	500
35	6	6.95	4.5	17.5	10	1.7	26	0.524	3,050	205	180	870	500
50	6	8.33	4.5	18.8	10	1.7	27	0.387	2,730	245	215	1,020	500
70	12	9.73	4.5	20.2	10	1.8	29	0.268	2,470	305	260	1,250	500
95	15	11.43	4.5	21.9	10	1.8	30	0.193	2,210	375	315	1,540	500
120	18	12.95	4.5	23.5	10	1.9	32	0.153	2,020	435	360	1,820	500
150	18	14.27	4.5	24.8	16	1.9	34	0.124	1,890	495	400	2,160	500
185	30	15.98	4.5	26.5	16	2.0	36	0.0991	1,730	565	455	2,560	500
240	34	18.47	4.5	29.0	25	2.1	39	0.0754	1,550	675	530	3,260	500
300	34	20.68	4.5	31.2	25	2.2	41	0.0601	1,420	775	600	3,890	500
400	53	23.39	4.5	33.9	25	2.3	44	0.0470	1,290	900	685	4,760	500
500	53	26.67	4.5	37.7	25	2.4	49	0.0366	1,130	1,050	780	5,900	300
630	53	30.22	4.5	41.3	25	2.5	52	0.0283	1,020	1,220	890	7,360	300
800	53	34.00	4.5	45.1	25	2.6	56	0.0221	930	1,400	1,000	9,130	250