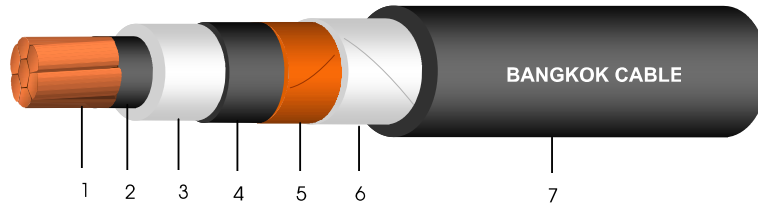


## 35 kV CV (CE optional)\*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (100% INSULATION LEVELS)



### 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 tape (or copper wires)
6. Binding tape : Polyester or Spunbond tape
7. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)\*

### Reference Standard

ICEA S-93-639

### Classification

Maximum conductor temperature : 90°C  
 Maximum circuit voltage : 35 kV  
 AC test voltage : 69 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.)	Thickness of sheath mm (Min.)	Overall diameter mm (Approx.)	DC, Conductor resistance at 20°C Ω/km (Max.)	Insulation resistance at 15.6°C MΩ.km (Min.)	Current rating		Cable weight kg/km (Approx.)	Standard length m/drum
Cross-sectional area mm <sup>2</sup>	No. of wires (Min.)	Diameter mm (Approx.)							in free air at 40°C ambient A	direct burial in ground at 30°C A		
50	6	8.33	8.76	27.7	1.78	35	0.387	2,830	245	210	1,410	500
70	12	9.73	8.76	29.1	1.78	36	0.268	2,597	305	260	1,650	500
95	15	11.43	8.76	30.8	1.78	38	0.193	2,364	370	310	1,970	500
120	18	12.95	8.76	32.3	1.78	40	0.153	2,191	425	355	2,260	500
150	18	14.27	8.76	33.6	1.78	41	0.124	2,061	485	400	2,560	500
185	30	15.98	8.76	35.4	1.78	43	0.0991	1,914	555	450	2,970	500
240	34	18.47	8.76	37.8	1.78	45	0.0754	1,736	655	525	3,600	500
300	34	20.68	8.76	40.1	2.54	49	0.0601	1,604	750	595	4,430	500
400	53	23.39	8.76	42.8	2.54	52	0.0470	1,468	870	680	5,320	300
500	53	26.67	8.76	46.6	2.54	56	0.0366	1,311	1,015	775	6,510	300
630	53	30.22	8.76	50.2	2.54	60	0.0283	1,194	1,180	885	7,990	300
800	53	34.00	8.76	53.9	2.54	64	0.0221	1,090	1,350	995	9,800	200