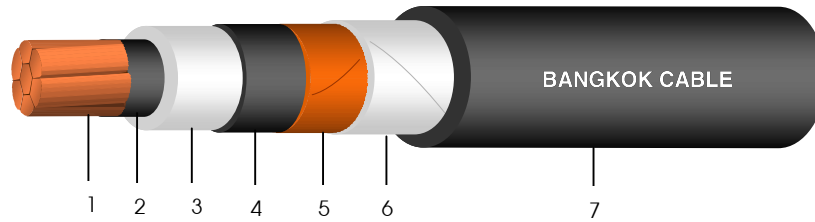


35 kV CV (CE optional)*

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 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

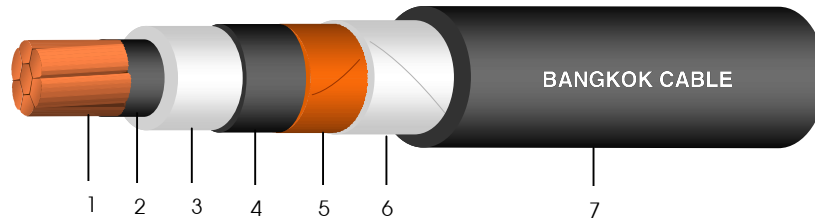
Application

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	Diameter over insulation	Thickness of sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation resistance at 15.6°C	Current rating		Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter							in free air	direct burial in ground		
mm ²	(Min.)	(Approx.)	(Nominal)	(Approx.)	(Min.)	(Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
50	6	8.33	8.76	27.7	1.78	35	0.387	2,830	255	215	1,410	500
70	12	9.73	8.76	29.1	1.78	36	0.268	2,597	320	260	1,650	500
95	15	11.43	8.76	30.8	1.78	38	0.193	2,364	385	315	1,970	500
120	18	12.95	8.76	32.3	1.78	40	0.153	2,191	440	360	2,260	500
150	18	14.27	8.76	33.6	1.78	41	0.124	2,061	500	400	2,560	500
185	30	15.98	8.76	35.4	1.78	43	0.0991	1,914	580	455	2,970	500
240	34	18.47	8.76	37.8	1.78	45	0.0754	1,736	680	530	3,600	500
300	34	20.68	8.76	40.1	2.54	49	0.0601	1,604	780	600	4,430	500
400	53	23.39	8.76	42.8	2.54	52	0.0470	1,468	910	680	5,320	300
500	53	26.67	8.76	46.6	2.54	56	0.0366	1,311	1,060	780	6,510	300
630	53	30.22	8.76	50.2	2.54	60	0.0283	1,194	1,230	890	7,990	300
800	53	34.00	8.76	53.9	2.54	64	0.0221	1,090	1,410	1,000	9,800	200

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 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 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.)
50	0.494	0.661	0.208	0.535
70	0.342	0.635	0.200	0.396
95	0.246	0.614	0.193	0.313
120	0.196	0.599	0.188	0.271
150	0.159	0.585	0.184	0.243
185	0.127	0.571	0.180	0.220
240	0.0971	0.552	0.173	0.199
300	0.0779	0.546	0.172	0.188
400	0.0616	0.533	0.168	0.178
500	0.0488	0.522	0.164	0.171
630	0.0387	0.511	0.160	0.165
800	0.0315	0.500	0.157	0.160