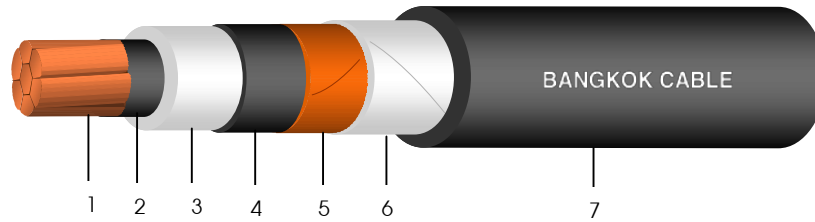


# 15 kV CV (CE optional)\*

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	: 15 kV
AC test voltage	: 35 kV
	: 44 kV (for size over 500 mm <sup>2</sup> )

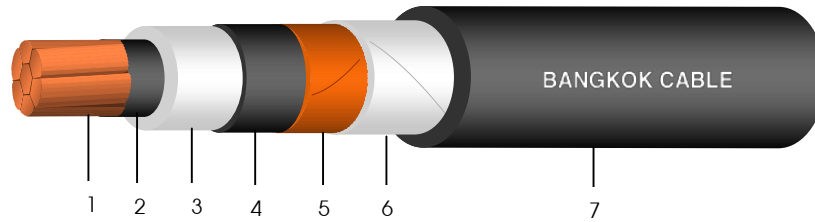
## Application

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 at 40°C ambient	direct burial in ground at 30°C		
mm <sup>2</sup>	(Min.)	(Approx.)	(Nominal)	(Approx.)	(Min.)	(Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
25	6	5.90	4.45	16.3	1.78	23	0.727	2,209	170	150	690	500
35	6	6.95	4.45	17.4	1.78	24	0.524	2,009	210	180	820	500
50	6	8.33	4.45	18.7	1.78	26	0.387	1,797	250	220	970	500
70	12	9.73	4.45	20.1	1.78	27	0.268	1,624	320	260	1,200	500
95	15	11.43	4.45	21.8	1.78	29	0.193	1,455	390	320	1,490	500
120	18	12.95	4.45	23.4	1.78	30	0.153	1,332	450	360	1,760	500
150	18	14.27	4.45	24.7	1.78	32	0.124	1,242	510	400	2,050	500
185	30	15.98	4.45	26.4	1.78	34	0.0991	1,141	580	460	2,430	500
240	34	18.47	4.45	28.9	1.78	36	0.0754	1,021	690	530	3,030	500
300	34	20.68	4.45	31.1	1.78	38	0.0601	934	800	600	3,650	500
400	53	23.39	4.45	33.8	1.78	41	0.0470	846	930	685	4,490	500
500	53	26.67	4.45	37.6	1.78	45	0.0366	746	1,080	780	5,620	300
630	53	30.22	5.59	43.6	2.54	53	0.0283	673	1,250	890	7,420	300
800	53	34.00	5.59	47.3	2.54	57	0.0221	609	1,430	1,000	9,190	250

# 15 kV CV (CE optional)\*

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



## Construction

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## Reference Standard

ICEA S-93-639

## Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 15 kV
- AC test voltage : 35 kV
- : 44 kV (for size over 500 mm<sup>2</sup>)

## 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 <sup>2</sup>	AC Resistance of conductor at 90 °C Ω/km (Approx.)	Inductance mH/km (Approx.)	Reactance Ω/km (Approx.)	Impedance Ω/km (Approx.)
25	0.927	0.646	0.203	0.949
35	0.668	0.621	0.195	0.696
50	0.494	0.601	0.189	0.529
70	0.342	0.578	0.181	0.387
95	0.246	0.560	0.176	0.303
120	0.196	0.541	0.170	0.259
150	0.159	0.535	0.168	0.231
185	0.127	0.524	0.165	0.208
240	0.0972	0.507	0.159	0.187
300	0.0780	0.495	0.156	0.174
400	0.0617	0.486	0.153	0.165
500	0.0490	0.478	0.150	0.158
630	0.0389	0.486	0.153	0.158
800	0.0317	0.477	0.150	0.153