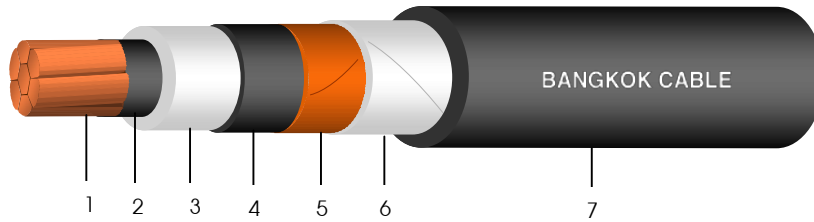


# 15 kV CV (CE optional)\*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (133% 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 : 44 kV

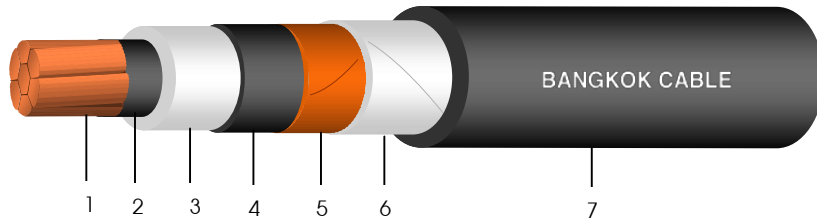
## Application

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 <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	5.59	18.7	1.78	26	0.727	2,568	170	150	790	500
35	6	6.95	5.59	19.7	1.78	27	0.524	2,347	210	180	910	500
50	6	8.33	5.59	21.1	1.78	28	0.387	2,111	255	220	1,070	500
70	12	9.73	5.59	22.5	1.78	30	0.268	1,918	320	260	1,310	500
95	15	11.43	5.59	24.2	1.78	31	0.193	1,728	390	320	1,600	500
120	18	12.95	5.59	25.7	1.78	33	0.153	1,588	450	360	1,880	500
150	18	14.27	5.59	27.1	1.78	34	0.124	1,484	510	400	2,170	500
185	30	15.98	5.59	28.8	1.78	36	0.0991	1,368	580	460	2,560	500
240	34	18.47	5.59	31.3	1.78	39	0.0754	1,230	690	530	3,170	500
300	34	20.68	5.59	33.5	1.78	41	0.0601	1,128	800	600	3,800	500
400	53	23.39	5.59	36.2	1.78	44	0.0470	1,025	920	680	4,650	500
500	53	26.67	5.59	40.0	2.54	49	0.0366	908	1,070	780	5,970	300
630	53	30.22	5.59	43.6	2.54	53	0.0283	821	1,250	890	7,420	300
800	53	34.00	5.59	47.3	2.54	57	0.0221	745	1,430	1,000	9,190	250

# 15 kV CV (CE optional)\*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (133% INSULATION LEVELS)



## Construction

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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	: 44 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 <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	0.670	0.211	0.951
35	0.668	0.645	0.203	0.698
50	0.494	0.616	0.194	0.530
70	0.342	0.599	0.188	0.390
95	0.246	0.573	0.180	0.305
120	0.196	0.561	0.176	0.263
150	0.159	0.547	0.172	0.234
185	0.127	0.536	0.168	0.211
240	0.0972	0.523	0.164	0.191
300	0.0780	0.510	0.160	0.178
400	0.0617	0.500	0.157	0.169
500	0.0489	0.495	0.156	0.163
630	0.0389	0.486	0.153	0.158
800	0.0317	0.477	0.150	0.153