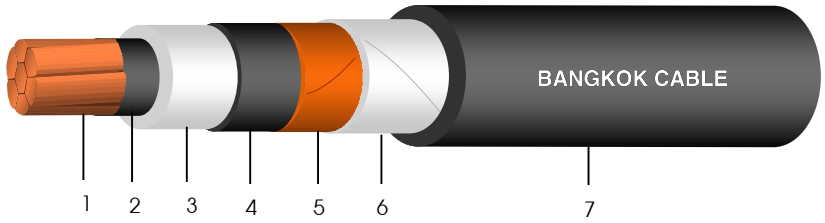
25 kV CV (CE optional)*

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 : 25 kV
AC test voltage : 64 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 at 40°C ambient	direct burial in ground at 30°C		
mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Min.)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
35	6	6.95	8.13	25.0	1.78	32	0.524	2,974	210	180	1,170	500
50	6	8.33	8.13	26.4	1.78	34	0.387	2,702	255	215	1,340	500
70	12	9.73	8.13	27.8	1.78	35	0.268	2,475	320	260	1,580	500
95	15	11.43	8.13	29.5	1.78	37	0.193	2,250	385	315	1,890	500
120	18	12.95	8.13	31.0	1.78	38	0.153	2,081	445	360	2,180	500
150	18	14.27	8.13	32.3	1.78	40	0.124	1,956	505	400	2,480	500
185	30	15.98	8.13	34.0	1.78	41	0.0991	1,814	580	455	2,890	500
240	34	18.47	8.13	36.5	1.78	44	0.0754	1,643	680	530	3,510	500
300	34	20.68	8.13	38.7	2.54	48	0.0601	1,516	780	600	4,330	500
400	53	23.39	8.13	41.5	2.54	51	0.0470	1,386	910	680	5,210	500
500	53	26.67	8.13	45.3	2.54	55	0.0366	1,236	1,060	780	6,400	300
630	53	30.22	8.13	48.8	2.54	58	0.0283	1,124	1,230	890	7,880	300
800	53	34.00	8.13	52.6	2.54	62	0.0221	1,025	1,415	1,000	9,680	250

25 kV CV (CE optional)*

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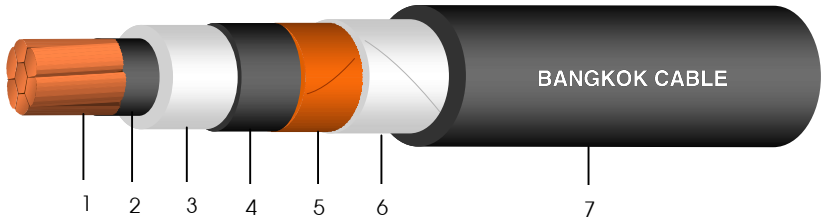

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ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 25 kV
AC test voltage	: 64 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.)
35	0.668	0.679	0.213	0.701
50	0.494	0.655	0.206	0.535
70	0.342	0.629	0.198	0.395
95	0.246	0.608	0.191	0.312
120	0.196	0.589	0.185	0.269
150	0.159	0.580	0.182	0.242
185	0.127	0.562	0.177	0.218
240	0.0972	0.547	0.172	0.197
300	0.0779	0.542	0.170	0.187
400	0.0616	0.529	0.166	0.177
500	0.0488	0.518	0.163	0.170
630	0.0388	0.504	0.158	0.163
800	0.0315	0.494	0.155	0.158