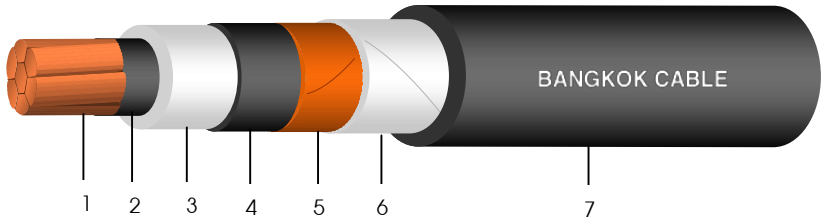
25 kV CV (CE optional)*

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 : 25 kV
AC test voltage : 52 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	6.6	21.8	1.78	29	0.524	2,614	210	180	1,010	500
50	6	8.33	6.6	23.2	1.78	30	0.387	2,362	255	220	1,170	500
70	12	9.73	6.6	24.6	1.78	32	0.268	2,154	320	260	1,410	500
95	15	11.43	6.6	26.3	1.78	33	0.193	1,948	390	315	1,710	500
120	18	12.95	6.6	27.8	1.78	35	0.153	1,795	450	360	1,990	500
150	18	14.27	6.6	29.2	1.78	36	0.124	1,682	510	400	2,290	500
185	30	15.98	6.6	30.9	1.78	38	0.0991	1,555	580	455	2,690	500
240	34	18.47	6.6	33.4	1.78	41	0.0754	1,402	690	530	3,300	500
300	34	20.68	6.6	35.6	1.78	43	0.0601	1,289	790	600	3,930	500
400	53	23.39	6.6	38.3	2.54	47	0.0470	1,174	920	680	4,970	500
500	53	26.67	6.6	42.1	2.54	51	0.0366	1,043	1,070	780	6,130	300
630	53	30.22	6.6	45.7	2.54	55	0.0283	946	1,240	890	7,600	300
800	53	34.00	6.6	49.4	2.54	59	0.0221	860	1,430	1,000	9,380	250

25 kV CV (CE optional)*

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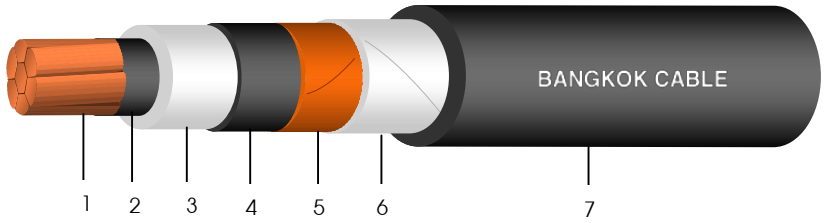

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Classification

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AC test voltage	: 52 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	0.659	0.207	0.700
50	0.494	0.630	0.198	0.532
70	0.342	0.612	0.192	0.392
95	0.246	0.586	0.184	0.308
120	0.196	0.572	0.180	0.266
150	0.159	0.559	0.175	0.237
185	0.127	0.547	0.172	0.214
240	0.0972	0.533	0.167	0.194
300	0.0780	0.520	0.163	0.181
400	0.0616	0.513	0.161	0.173
500	0.0488	0.503	0.158	0.165
630	0.0388	0.493	0.155	0.160
800	0.0316	0.484	0.152	0.155