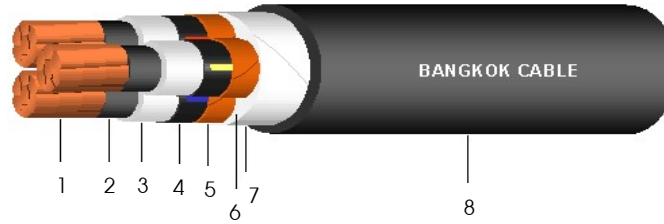


6/10(12) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



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
6. Filler : Polypropylene (Non-hygroscopic material)
7. Binding tape : Polyester tape
8. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard :

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
 Maximum circuit voltage : 12 kV
 AC test voltage : 21 kV

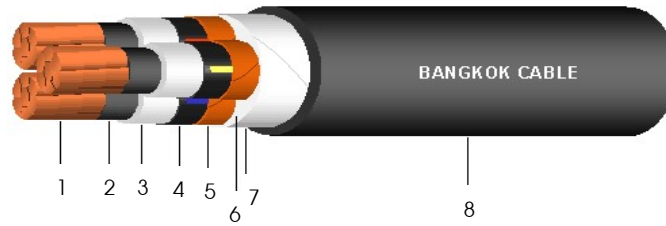
Application

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 mm (Nominal)	Diameter over insulation mm (Approx.)	Thickness of sheath mm (Nominal)	Overall diameter mm (Approx.)	DC. Conductor resistance at 20°C Ω/km (Max.)	Insulation resistance at 20°C MΩ.km (Min.)	Current rating		Cable weight kg/km (Approx.)	Standard length m/drum
Cross-sectional area mm ²	No. of wires (Min.)	Diameter mm (Approx.)							in free air at 40°C ambient A	direct burial in ground at 30°C A		
16	6	4.69	3.4	13.1	2.1	37	1.15	3,140	110	110	1,570	500
25	6	5.90	3.4	14.3	2.2	40	0.727	2,750	140	145	1,970	500
35	6	6.95	3.4	15.4	2.3	43	0.524	2,490	175	175	2,380	500
50	6	8.33	3.4	16.7	2.4	46	0.387	2,210	210	205	2,890	500
70	12	9.73	3.4	18.1	2.5	49	0.268	1,990	260	250	3,640	500
95	15	11.43	3.4	19.8	2.6	53	0.193	1,770	315	300	4,590	500
120	18	12.95	3.4	21.4	2.7	56	0.153	1,620	365	340	5,480	300
150	18	14.27	3.4	22.7	2.8	59	0.124	1,500	415	385	6,440	300
185	30	15.98	3.4	24.4	2.9	63	0.0991	1,370	475	435	7,700	250
240	34	18.47	3.4	26.9	3.1	69	0.0754	1,220	570	505	9,690	200
300	34	20.68	3.4	29.1	3.3	74	0.0601	1,120	650	570	11,740	200
400	53	23.39	3.4	31.8	3.5	81	0.0470	1,010	750	655	14,530	150

6/10(12) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

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- 2. Conductor screen : Semi-conductive cross-linked polyethylene compound
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- 6. Filler : Polypropylene (Non-hygroscopic material)
- 7. Binding tape : Polyester tape
- 8. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard :

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 12 kV
- AC test voltage : 21 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.)
16	1.47	0.420	0.132	1.47
25	0.927	0.389	0.122	0.935
35	0.668	0.370	0.116	0.678
50	0.494	0.348	0.109	0.506
70	0.342	0.332	0.104	0.358
95	0.247	0.316	0.0992	0.266
120	0.196	0.305	0.0959	0.218
150	0.159	0.297	0.0932	0.185
185	0.128	0.288	0.0903	0.157
240	0.0985	0.277	0.0870	0.131
300	0.0797	0.269	0.0845	0.116
400	0.0640	0.261	0.0820	0.104