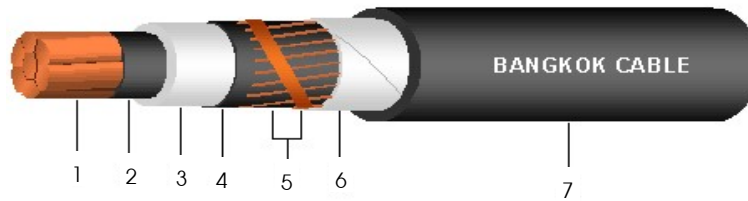


6/10(12) kV CV (CE optional)*

1 CORE - 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 wires with copper contact tape
6. Binding tape : Polyester tape
7. 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

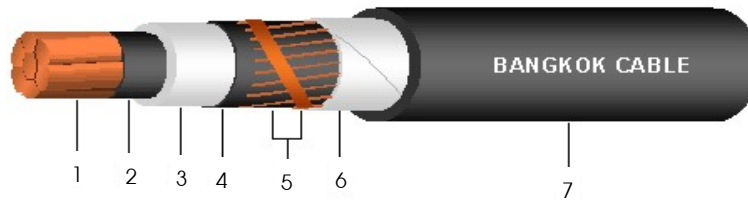
Application

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.)	Area of metallic screen mm ²	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	10	1.5	20	1.15	3,140	135	120	540	500
25	6	5.90	3.4	14.3	10	1.6	21	0.727	2,750	180	150	660	500
35	6	6.95	3.4	15.4	10	1.6	22	0.524	2,490	215	180	770	500
50	6	8.33	3.4	16.7	10	1.7	24	0.387	2,210	260	220	930	500
70	12	9.73	3.4	18.1	10	1.7	25	0.268	1,990	320	270	1,150	500
95	15	11.43	3.4	19.8	10	1.8	27	0.193	1,770	390	320	1,440	500
120	18	12.95	3.4	21.4	10	1.8	29	0.153	1,620	450	360	1,700	500
150	18	14.27	3.4	22.7	16	1.9	30	0.124	1,500	520	410	2,050	500
185	30	15.98	3.4	24.4	16	1.9	32	0.0991	1,370	590	460	2,420	500
240	34	18.47	3.4	26.9	25	2.0	35	0.0754	1,220	705	535	3,100	500
300	34	20.68	3.4	29.1	25	2.1	37	0.0601	1,120	810	600	3,720	500
400	53	23.39	3.4	31.8	25	2.2	40	0.0470	1,010	945	690	4,560	500
500	53	26.67	3.4	35.6	25	2.3	44	0.0366	890	1,100	790	5,690	300
630	53	30.22	3.4	39.2	25	2.4	48	0.0283	800	1,280	890	7,110	300
800	53	34.00	3.4	43.0	25	2.5	52	0.0221	720	1,470	1,010	8,860	250

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

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

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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	0.664	0.208	1.48
25	0.927	0.627	0.197	0.948
35	0.668	0.604	0.190	0.695
50	0.494	0.585	0.184	0.527
70	0.342	0.562	0.177	0.385
95	0.246	0.545	0.171	0.300
120	0.196	0.535	0.168	0.258
150	0.159	0.522	0.164	0.228
185	0.127	0.512	0.161	0.205
240	0.0972	0.501	0.157	0.185
300	0.0780	0.490	0.154	0.173
400	0.0617	0.481	0.151	0.163
500	0.0490	0.474	0.149	0.157
630	0.0390	0.466	0.146	0.152
800	0.0318	0.458	0.144	0.147