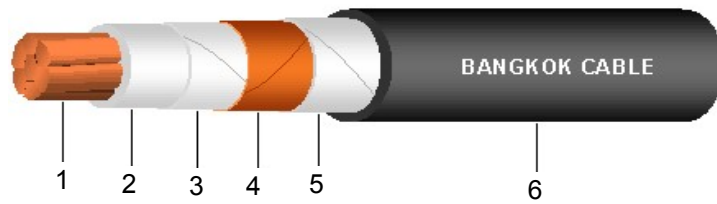


1.8/3(3.6) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

- 1. Conductor : Circular compact stranded annealed copper
- 2. Insulation : Cross-linked polyethylene (XLPE) compound
- 3. Binding tape : Polyester or Spunbond tape
- 4. Metallic screen : Copper tape
- 5. Binding tape : Polyester tape
- 6. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature : 90°C
 Maximum circuit voltage : 3.6 kV
 AC test voltage : 6.5 kV

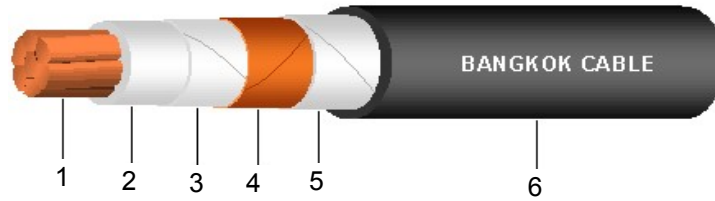
Application

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		
10	6	3.72	2.0	8.1	1.4	12	1.83	3,210	100	90	240	500
16	6	4.69	2.0	9.1	1.4	13	1.15	2,720	130	120	310	500
25	6	5.90	2.0	10.3	1.4	15	0.727	2,300	170	150	410	500
35	6	6.95	2.0	11.4	1.4	16	0.524	2,020	200	180	510	500
50	6	8.33	2.0	12.7	1.4	17	0.387	1,750	250	220	640	500
70	12	9.73	2.0	14.1	1.5	19	0.268	1,540	310	260	860	500
95	15	11.43	2.0	15.8	1.5	20	0.193	1,350	380	320	1,130	500
120	18	12.95	2.0	17.4	1.6	22	0.153	1,210	440	360	1,380	500
150	18	14.27	2.0	18.7	1.6	23	0.124	1,110	500	400	1,660	500
185	30	15.98	2.0	20.4	1.7	25	0.0991	1,010	580	460	2,030	500
240	34	18.47	2.0	22.9	1.8	28	0.0754	890	690	530	2,600	500
300	34	20.68	2.0	25.1	1.8	30	0.0601	800	800	600	3,190	500
400	53	23.39	2.0	27.8	1.9	33	0.0470	720	940	685	4,010	500
500	53	26.67	2.2	31.5	2.0	37	0.0366	690	1100	780	5,090	300
630	53	30.22	2.4	35.4	2.2	41	0.0283	670	1275	890	6,520	300
800	53	34.00	2.6	39.6	2.3	46	0.0221	650	1465	1,000	8,260	250

1.8/3(3.6) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

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Reference Standard

IEC 60502-1

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 3.6 kV
- AC test voltage : 6.5 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.)
10	2.33	0.608	0.191	2.34
16	1.47	0.577	0.181	1.48
25	0.927	0.560	0.176	0.944
35	0.668	0.540	0.170	0.690
50	0.494	0.516	0.162	0.520
70	0.342	0.507	0.159	0.377
95	0.247	0.485	0.152	0.290
120	0.196	0.479	0.151	0.247
150	0.159	0.469	0.147	0.217
185	0.127	0.463	0.145	0.193
240	0.0974	0.457	0.143	0.173
300	0.0782	0.448	0.141	0.161
400	0.0620	0.442	0.139	0.152
500	0.0492	0.439	0.138	0.146
630	0.0393	0.434	0.136	0.142
800	0.0321	0.434	0.136	0.140