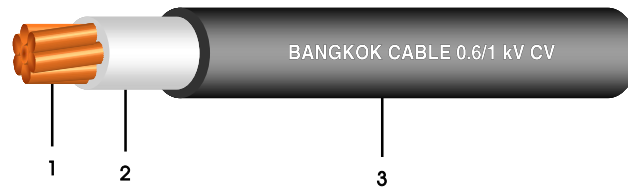


0.6/1 kV CV (FR-CV optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 1,000 V
- AC test voltage : 3,500 V

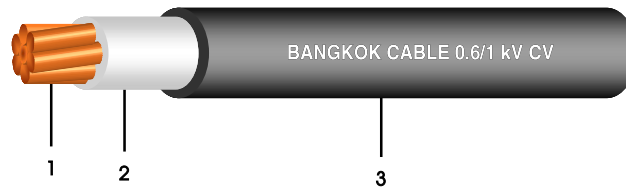
Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°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 (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.4	6.5	12.1	2,550	27	33	50	500
2.5	7	2.01	0.7	1.4	7.0	7.41	2,100	38	43	60	500
4	7	2.55	0.7	1.4	7.5	4.61	1,700	51	56	80	500
6	7	3.12	0.7	1.4	8.0	3.08	1,450	66	71	110	500
10	6	3.72	0.7	1.4	9.0	1.83	1,250	92	94	150	500
16	6	4.69	0.7	1.4	9.5	1.15	1,000	124	120	210	500
25	6	5.90	0.9	1.4	11.5	0.727	1,050	166	155	310	500
35	6	6.95	0.9	1.4	12.5	0.524	900	206	185	410	500
50	6	8.33	1.0	1.4	14.0	0.387	850	259	225	550	500
70	12	9.73	1.1	1.4	15.5	0.268	800	321	275	750	500
95	15	11.43	1.1	1.5	17.5	0.193	700	391	330	1,020	500
120	18	12.95	1.2	1.5	19.5	0.153	650	455	375	1,270	500
150	18	14.27	1.4	1.6	21.5	0.124	700	525	425	1,560	500
185	30	15.98	1.6	1.6	23.5	0.0991	700	602	480	1,940	500
240	34	18.47	1.7	1.7	26.5	0.0754	650	711	560	2,520	500
300	34	20.68	1.8	1.8	29.0	0.0601	600	821	635	3,130	500
400	53	23.39	2.0	1.9	32.5	0.0470	600	988	725	3,980	500
500	53	26.67	2.2	2.0	36.5	0.0366	600	1,140	830	5,080	500
630	53	30.22	2.4	2.2	41.0	0.0283	550	1,323	945	6,540	400
800	53	34.00	2.6	2.3	45.5	0.0221	550	1,543	1,060	8,310	400

0.6/1 kV CV (FR-CV optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

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(Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 1,000 V
- AC test voltage : 3,500 V

Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

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.)
1.5	15.43	0.663	0.208	15.43
2.5	9.45	0.626	0.197	9.45
4	5.88	0.594	0.187	5.88
6	3.93	0.564	0.177	3.93
10	2.33	0.550	0.173	2.34
16	1.47	0.515	0.162	1.48
25	0.927	0.507	0.159	0.941
35	0.668	0.491	0.154	0.686
50	0.494	0.477	0.150	0.516
70	0.342	0.467	0.147	0.372
95	0.247	0.459	0.144	0.286
120	0.196	0.455	0.143	0.243
150	0.160	0.455	0.143	0.214
185	0.128	0.451	0.142	0.191
240	0.0988	0.446	0.140	0.171
300	0.0800	0.441	0.139	0.160
400	0.0642	0.439	0.138	0.152
500	0.0520	0.436	0.137	0.147
630	0.0427	0.434	0.136	0.143
800	0.0360	0.432	0.136	0.140

* Condition : Three cable laid in flat formation with a clearance between cables of 1.0 times the cable overall diameter