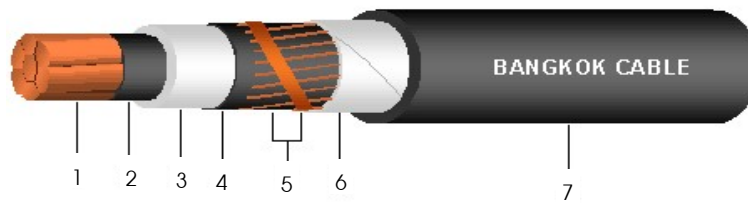


3.6/6(7.2) kV CV (CE optional)*

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 : 7.2 kV
 AC test voltage : 12.5 kV

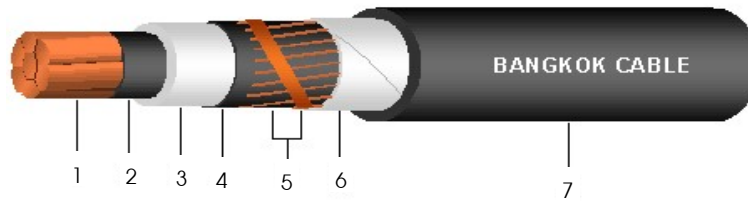
Application

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.)	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		
10	6	3.72	2.5	10.3	10	1.4	17	1.83	2,870	100	90	400	500
16	6	4.69	2.5	11.3	10	1.5	18	1.15	2,520	130	120	490	500
25	6	5.90	2.5	12.5	10	1.5	19	0.727	2,190	180	155	600	500
35	6	6.95	2.5	13.6	10	1.6	21	0.524	1,970	210	185	720	500
50	6	8.33	2.5	14.9	10	1.6	22	0.387	1,740	260	220	860	500
70	12	9.73	2.5	16.3	10	1.6	23	0.268	1,550	320	270	1,070	500
95	15	11.43	2.5	18.0	10	1.7	25	0.193	1,370	390	320	1,350	500
120	18	12.95	2.5	19.6	10	1.8	27	0.153	1,250	450	360	1,620	500
150	18	14.27	2.5	20.9	16	1.8	28	0.124	1,160	520	410	1,950	500
185	30	15.98	2.5	22.6	16	1.9	30	0.0991	1,050	595	460	2,330	500
240	34	18.47	2.6	25.3	25	1.9	33	0.0754	970	710	535	3,000	500
300	34	20.68	2.8	27.9	25	2.0	36	0.0601	940	810	605	3,630	500
400	53	23.39	3.0	31.0	25	2.2	39	0.0470	900	950	690	4,510	500
500	53	26.67	3.2	35.2	25	2.3	44	0.0366	840	1,100	790	5,660	300
630	53	30.22	3.2	38.8	25	2.4	48	0.0283	750	1,280	895	7,080	300
800	53	34.00	3.2	42.6	25	2.5	52	0.0221	680	1,470	1,010	8,820	250

3.6/6(7.2) 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 : 7.2 kV
 AC test voltage : 12.5 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	0.677	0.213	2.34
16	1.47	0.642	0.202	1.48
25	0.927	0.607	0.191	0.947
35	0.668	0.595	0.187	0.694
50	0.494	0.568	0.178	0.525
70	0.342	0.546	0.171	0.383
95	0.247	0.530	0.167	0.297
120	0.196	0.520	0.163	0.255
150	0.159	0.508	0.160	0.225
185	0.127	0.499	0.157	0.202
240	0.0973	0.490	0.154	0.182
300	0.0781	0.484	0.152	0.171
400	0.0618	0.476	0.149	0.162
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