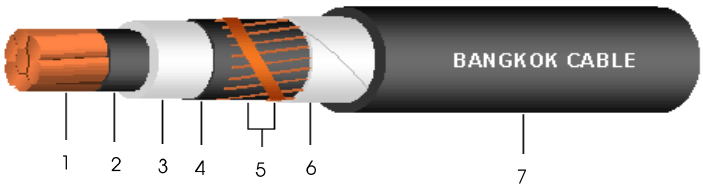
6/10(12) kV CV (CE optional)*

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 or Spunbond 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	Diameter over insulation	Area of metallic screen	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 (Approx.)	mm^2	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
16	6	4.69	3.4	12.9	10	1.5	20	1.15	3,140	130	115	540	500
25	6	5.90	3.4	14.1	10	1.6	22	0.727	2,750	170	150	660	500
35	6	6.95	3.4	15.2	10	1.6	23	0.524	2,490	205	180	770	500
50	6	8.33	3.4	16.6	10	1.7	25	0.387	2,210	245	215	930	500
70	12	9.73	3.4	18.0	10	1.7	26	0.268	1,990	305	265	1,150	500
95	15	11.43	3.4	19.7	10	1.8	28	0.193	1,770	375	315	1,440	500
120	18	12.95	3.4	21.2	10	1.8	30	0.153	1,620	435	360	1,700	500
150	18	14.27	3.4	22.5	16	1.9	31	0.124	1,500	495	405	2,050	500
185	30	15.98	3.4	24.2	16	1.9	33	0.0991	1,370	570	455	2,430	500
240	34	18.47	3.4	26.7	25	2.0	36	0.0754	1,220	675	530	3,120	500
300	34	20.68	3.4	28.9	25	2.1	39	0.0601	1,120	780	600	3,740	500
400	53	23.39	3.4	31.6	25	2.2	42	0.0470	1,010	905	685	4,590	500
500	53	26.67	3.4	35.5	25	2.3	46	0.0366	890	1,055	780	5,730	300
630	53	30.22	3.4	39.0	25	2.4	50	0.0283	800	1,225	890	7,160	300
800	53	34.00	3.4	42.8	25	2.5	54	0.0221	720	1,410	1,000	8,920	250