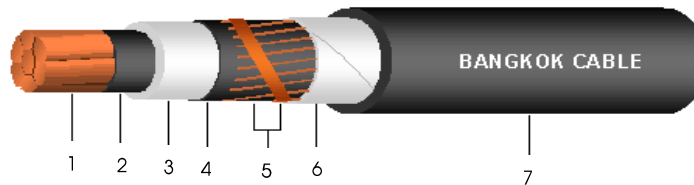


12/20(24) kV CV (CE optional)*

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 : 24 kV
- AC test voltage : 42 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)	Diameter over insulation (mm)	Area of metallic screen (mm ²)	Thickness of sheath (mm)	Overall diameter (mm)	DC. Conductor resistance at 20°C (Ω/km)	Insulation resistance at 20°C (MΩ.km)	Current rating		Cable weight (kg/km)	Standard length (m/drum)
Cross-sectional area (mm ²)	No. of wires (Min.)	Diameter (mm)								in free air at 40°C ambient (A)	direct burial in ground at 30°C (A)		
35	6	6.95	5.5	19.5	10	1.8	28	0.524	3,500	205	180	960	500
50	6	8.33	5.5	20.9	10	1.8	29	0.387	3,140	245	215	1,110	500
70	12	9.73	5.5	22.3	10	1.9	31	0.268	2,850	305	260	1,360	500
95	15	11.43	5.5	24.0	10	1.9	33	0.193	2,570	375	315	1,650	500
120	18	12.95	5.5	25.5	10	2.0	35	0.153	2,360	435	355	1,940	500
150	18	14.27	5.5	26.9	16	2.0	36	0.124	2,210	490	400	2,280	500
185	30	15.98	5.5	28.6	16	2.1	38	0.0991	2,030	565	460	2,690	500
240	34	18.47	5.5	31.1	25	2.2	41	0.0754	1,830	670	530	3,400	500
300	34	20.68	5.5	33.3	25	2.2	43	0.0601	1,680	775	600	4,020	500
400	53	23.39	5.5	36.0	25	2.3	47	0.0470	1,520	900	690	4,890	500
500	53	26.67	5.5	39.8	25	2.4	51	0.0366	1,350	1,045	780	6,050	300
630	53	30.22	5.5	43.4	25	2.5	54	0.0283	1,220	1,215	890	7,520	300
800	53	34.00	5.5	47.2	25	2.7	59	0.0221	1,110	1,390	1,000	9,330	250