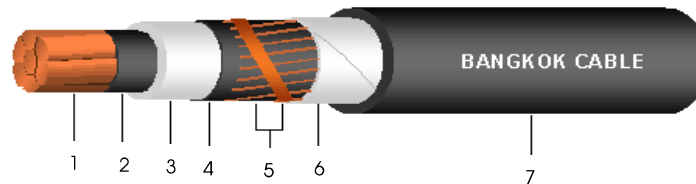


# 18/30(36) kV CV (CE optional)\*

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 : 36 kV  
 AC test voltage : 63 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 <sup>2</sup>	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 <sup>2</sup>	No. of wires (Min.)	Diameter mm (Approx.)								in free air at 40°C ambient A	direct burial in ground at 30°C A		
50	6	8.33	8.0	26.1	10	2.0	35	0.387	4,030	245	215	1,390	500
70	12	9.73	8.0	27.5	10	2.0	37	0.268	3,690	305	260	1,630	500
95	15	11.43	8.0	29.2	10	2.1	39	0.193	3,350	375	315	1,950	500
120	18	12.95	8.0	30.7	10	2.1	40	0.153	3,100	430	355	2,240	500
150	18	14.27	8.0	32.1	16	2.2	42	0.124	2,910	490	400	2,620	500
185	30	15.98	8.0	33.8	16	2.2	44	0.0991	2,700	560	455	3,020	500
240	34	18.47	8.0	36.3	25	2.3	47	0.0754	2,440	665	530	3,750	500
300	34	20.68	8.0	38.5	25	2.4	49	0.0601	2,250	765	595	4,410	500
400	53	23.39	8.0	41.2	25	2.5	52	0.0470	2,060	890	680	5,310	300
500	53	26.67	8.0	45.0	25	2.6	56	0.0366	1,840	1,035	780	6,510	300
630	53	30.22	8.0	48.6	25	2.7	60	0.0283	1,670	1,200	890	8,010	300
800	53	34.00	8.0	52.4	25	2.8	64	0.0221	1,520	1,375	1,000	9,830	250