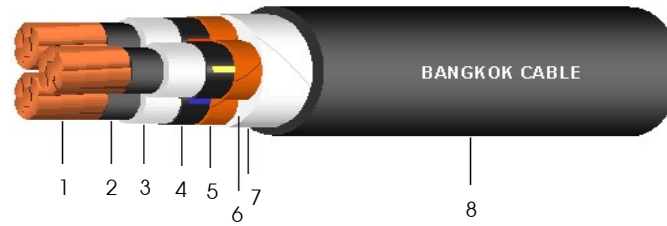


# 18/30(36) kV CV (CE optional)\*

3 CORES - 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 tape
6. Filler : Polypropylene (Non-hygroscopic material)
7. Binding tape : Polyester tape
8. 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

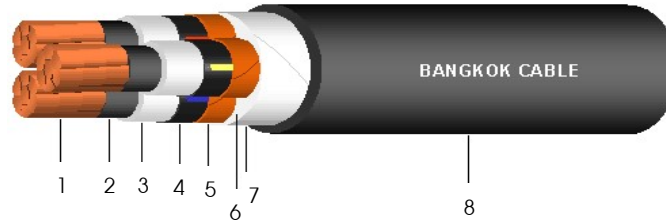
## Application

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.)	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	25.9	3.1	67	0.387	4,030	220	205	4,720	300
70	12	9.73	8.0	27.3	3.2	70	0.268	3,690	270	250	5,560	300
95	15	11.43	8.0	29.0	3.3	74	0.193	3,350	330	300	6,630	300
120	18	12.95	8.0	30.6	3.4	78	0.153	3,100	380	340	7,630	300
150	18	14.27	8.0	31.9	3.5	81	0.124	2,910	430	380	8,670	250
185	30	15.98	8.0	33.6	3.6	85	0.0991	2,700	490	435	10,050	200
240	34	18.47	8.0	36.1	3.8	91	0.0754	2,440	580	505	12,220	150
300	34	20.68	8.0	38.3	4.0	96	0.0601	2,250	660	570	14,430	150
400	53	23.39	8.0	41.0	4.2	102	0.0470	2,060	765	650	17,410	100

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

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



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## Classification

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 AC test voltage : 63 kV

## Application

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Conductor cross-sectional area mm <sup>2</sup>	AC Resistance of conductor at 90 °C Ω/km (Approx.)	Inductance mH/km (Approx.)	Reactance Ω/km (Approx.)	Impedance Ω/km (Approx.)
50	0.494	0.429	0.135	0.512
70	0.342	0.408	0.128	0.365
95	0.247	0.387	0.122	0.275
120	0.196	0.372	0.117	0.228
150	0.159	0.360	0.113	0.195
185	0.128	0.348	0.109	0.168
240	0.0979	0.332	0.104	0.143
300	0.0789	0.321	0.101	0.128
400	0.0629	0.309	0.0972	0.116