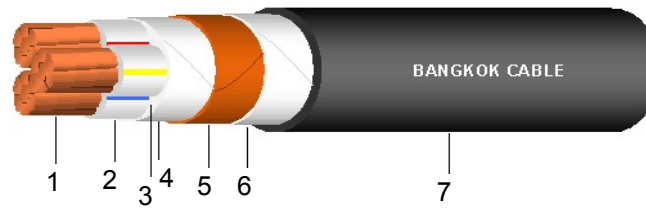


# 1.8/3(3.6) kV CV (CE optional)\*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

1. Conductor : Circular compact stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE) compound
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester or Spunbond tape
5. Metallic screen : Copper tape
6. Binding tape : Polyester tape
7. Sheath : Black Polyvinyl chloride (PVC), (Optional : PE)\*

## Reference Standard

IEC 60502-1

## Classification

- Maximum conductor temperature : 90°C  
 Maximum circuit voltage : 3.6 kV  
 AC test voltage : 6.5 kV

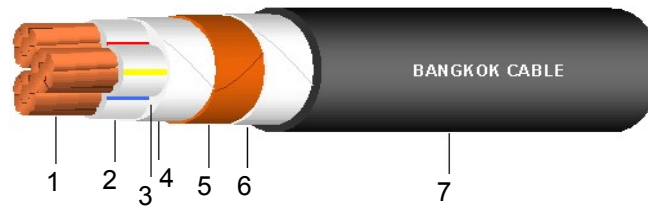
## Application

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	Diameter over insulation	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	direct burial in ground		
mm <sup>2</sup>	(Min.)	(Approx.)	(Nominal)	(Approx.)	(Nominal)	(Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	(Approx.)	m/drum
10	6	3.72	2.0	8.1	1.8	23	1.83	3,210	70	80	690	500
16	6	4.69	2.0	9.1	1.8	25	1.15	2,720	90	110	910	500
25	6	5.90	2.0	10.3	1.8	27	0.727	2,300	120	140	1,240	500
35	6	6.95	2.0	11.4	1.8	30	0.524	2,020	150	160	1,570	500
50	6	8.33	2.0	12.7	1.9	33	0.387	1,750	180	195	2,010	500
70	12	9.73	2.0	14.1	2.0	36	0.268	1,540	230	240	2,700	500
95	15	11.43	2.0	15.8	2.2	40	0.193	1,350	280	285	3,580	500
120	18	12.95	2.0	17.4	2.3	44	0.153	1,210	320	320	4,390	500
150	18	14.27	2.0	18.7	2.4	47	0.124	1,110	370	360	5,290	300
185	30	15.98	2.0	20.4	2.5	51	0.0991	1,010	420	410	6,470	300
240	34	18.47	2.0	22.9	2.7	57	0.0754	890	500	470	8,330	250
300	34	20.68	2.0	25.1	2.8	62	0.0601	800	570	530	10,250	200
400	53	23.39	2.0	27.8	3.1	68	0.0470	720	660	600	12,930	150

# 1.8/3(3.6) kV CV (CE optional)\*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



## Construction

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## Reference Standard

IEC 60502-1

## Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 3.6 kV
- AC test voltage : 6.5 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 <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.)
10	2.33	0.344	0.108	2.34
16	1.47	0.321	0.101	1.47
25	0.927	0.300	0.0943	0.932
35	0.668	0.288	0.0904	0.675
50	0.494	0.273	0.0858	0.501
70	0.342	0.263	0.0826	0.352
95	0.247	0.253	0.0796	0.260
120	0.197	0.248	0.0778	0.211
150	0.160	0.243	0.0762	0.177
185	0.129	0.237	0.0746	0.149
240	0.0994	0.232	0.0728	0.123
300	0.0808	0.227	0.0714	0.108
400	0.0653	0.223	0.0701	0.0958