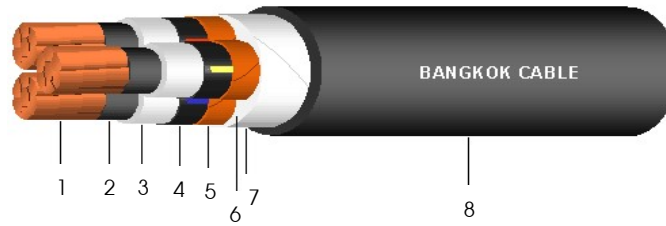


12/20(24) kV CV (CE optional)*

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 : 24 kV
 AC test voltage : 42 kV

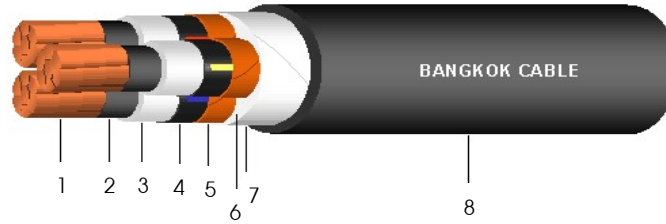
Application

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 (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 ²	No. of wires (Min.)	Diameter mm (Approx.)							in free air at 40°C ambient A	direct burial in ground at 30°C A		
35	6	6.95	5.5	19.6	2.6	52	0.524	3,500	180	175	3,080	500
50	6	8.33	5.5	20.9	2.7	55	0.387	3,140	215	205	3,640	500
70	12	9.73	5.5	22.3	2.8	59	0.268	2,850	265	250	4,430	500
95	15	11.43	5.5	24.0	2.9	63	0.193	2,570	325	300	5,440	300
120	18	12.95	5.5	25.6	3.0	66	0.153	2,360	370	340	6,370	300
150	18	14.27	5.5	26.9	3.1	69	0.124	2,210	420	385	7,370	300
185	30	15.98	5.5	28.6	3.3	73	0.0991	2,030	485	435	8,720	250
240	34	18.47	5.5	31.1	3.4	79	0.0754	1,830	575	505	10,750	200
300	34	20.68	5.5	33.3	3.6	84	0.0601	1,680	660	570	12,880	150
400	53	23.39	5.5	36.0	3.8	90	0.0470	1,520	760	645	15,760	150

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

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

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Reference Standard

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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 cross-sectional area mm ²	AC Resistance of conductor at 90 °C Ω/km (Approx.)	Inductance mH/km (Approx.)	Reactance Ω/km (Approx.)	Impedance Ω/km (Approx.)
35	0.668	0.414	0.130	0.681
50	0.494	0.389	0.122	0.509
70	0.342	0.370	0.116	0.361
95	0.247	0.351	0.110	0.270
120	0.196	0.339	0.106	0.223
150	0.159	0.328	0.103	0.190
185	0.128	0.317	0.100	0.162
240	0.0982	0.304	0.0955	0.137
300	0.0793	0.294	0.0925	0.122
400	0.0634	0.285	0.0894	0.110