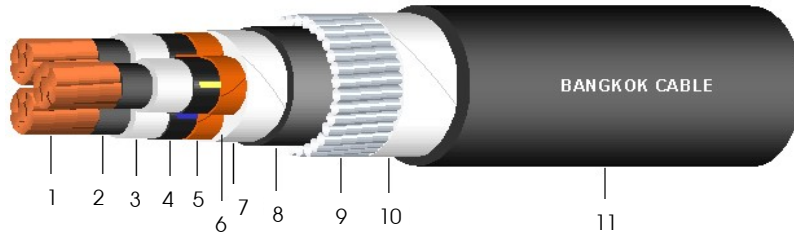


6/10(12) kV CV-SWA (CE-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



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. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
9. Armour : Galvanized steel wires
10. Binding tape : Polyester tape
11. Outer sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
 Maximum circuit voltage : 12 kV
 AC test voltage : 21 kV

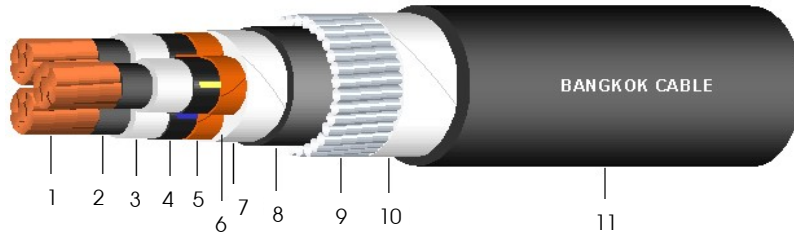
Application

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 inner sheath	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. Conductor resistance at 20°C	Current rating		Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter									in free air at 40°C ambient	direct burial in ground at 30°C		
mm ²	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
16	6	4.69	3.4	13.1	1.2	35.0	2.0	2.3	45	1.15	110	110	3,350	500
25	6	5.90	3.4	14.3	1.3	38.0	2.5	2.5	49	0.727	145	140	4,310	500
35	6	6.95	3.4	15.4	1.3	40.5	2.5	2.5	51	0.524	175	170	4,830	500
50	6	8.33	3.4	16.7	1.4	43.5	2.5	2.6	55	0.387	210	200	5,560	300
70	12	9.73	3.4	18.1	1.5	47.0	2.5	2.8	58	0.268	260	245	6,550	300
95	15	11.43	3.4	19.8	1.5	50.5	2.5	2.9	62	0.193	315	295	7,740	300
120	18	12.95	3.4	21.4	1.6	54.0	2.5	3.0	66	0.153	365	330	8,860	250
150	18	14.27	3.4	22.7	1.6	57.0	2.5	3.1	69	0.124	410	370	10,010	200
185	30	15.98	3.4	24.4	1.7	60.5	2.5	3.2	73	0.0991	465	415	11,550	200
240	34	18.47	3.4	26.9	1.8	66.5	3.15	3.5	81	0.0754	550	475	14,870	150
300	34	20.68	3.4	29.1	1.9	71.5	3.15	3.6	86	0.0601	620	530	17,300	100

6/10(12) kV CV-SWA (CE-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

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Reference Standard

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Classification

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- Maximum circuit voltage : 12 kV
- AC test voltage : 21 kV

Application

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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.)
16	1.47	0.420	0.132	1.47
25	0.927	0.389	0.122	0.935
35	0.668	0.370	0.116	0.678
50	0.494	0.348	0.109	0.506
70	0.342	0.332	0.104	0.358
95	0.247	0.316	0.0992	0.266
120	0.196	0.305	0.0959	0.218
150	0.159	0.297	0.0932	0.185
185	0.128	0.288	0.0903	0.157
240	0.0985	0.277	0.0870	0.131
300	0.0797	0.269	0.0845	0.116