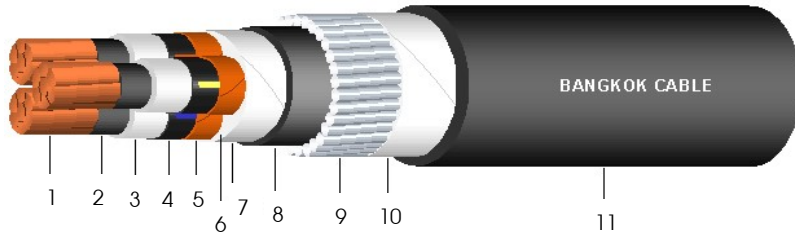


3.6/6(7.2) kV CV-SWA (CE-SWA optional)*

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 : 7.2 kV
 AC test voltage : 12.5 kV

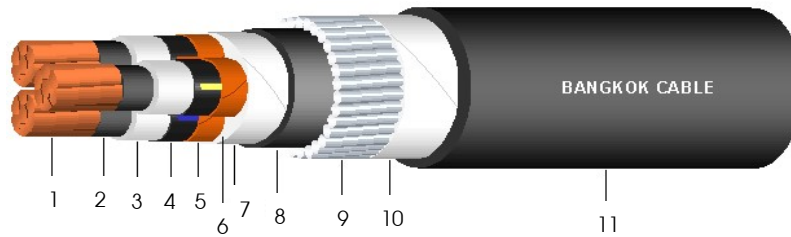
Application

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 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.)	(Approx.)	(Nominal)	(Approx.)	(Nominal)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	(Max.)	A	A	(Approx.)	m/drum
10	6	3.72	2.5	10.3	1.2	29.0	2.0	2.1	38	1.83	80	85	2,570	500
16	6	4.69	2.5	11.3	1.2	31.5	2.0	2.2	41	1.15	110	110	2,940	500
25	6	5.90	2.5	12.5	1.2	34.0	2.0	2.3	43	0.727	145	145	3,450	500
35	6	6.95	2.5	13.6	1.3	36.5	2.5	2.4	47	0.524	175	170	4,340	500
50	6	8.33	2.5	14.9	1.3	39.5	2.5	2.5	50	0.387	210	205	5,030	300
70	12	9.73	2.5	16.3	1.4	42.5	2.5	2.6	54	0.268	260	245	5,970	300
95	15	11.43	2.5	18.0	1.4	46.5	2.5	2.8	58	0.193	315	295	7,160	300
120	18	12.95	2.5	19.6	1.5	50.0	2.5	2.9	62	0.153	360	335	8,260	250
150	18	14.27	2.5	20.9	1.6	53.0	2.5	3.0	65	0.124	405	375	9,410	250
185	30	15.98	2.5	22.6	1.6	56.5	2.5	3.1	69	0.0991	465	420	10,900	200
240	34	18.47	2.6	25.3	1.7	62.5	3.15	3.3	77	0.0754	545	480	14,130	150
300	34	20.68	2.8	27.9	1.8	68.5	3.15	3.5	83	0.0601	615	535	16,730	100

3.6/6(7.2) kV CV-SWA (CE-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

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Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 7.2 kV
- AC test voltage : 12.5 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 ²	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	0.425	0.133	2.34
16	1.47	0.394	0.124	1.47
25	0.927	0.366	0.115	0.934
35	0.668	0.348	0.109	0.677
50	0.494	0.328	0.103	0.504
70	0.342	0.313	0.0983	0.356
95	0.247	0.299	0.0938	0.264
120	0.196	0.289	0.0908	0.216
150	0.160	0.281	0.0884	0.182
185	0.128	0.273	0.0859	0.154
240	0.0987	0.265	0.0833	0.129
300	0.0799	0.261	0.0820	0.115