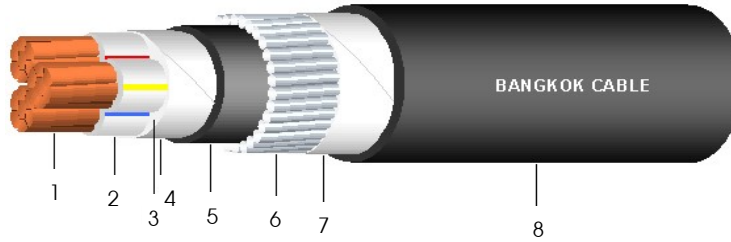


1.8/3(3.6) kV CV-SWA (CE-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



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. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
- 6. Armour : Galvanized steel wires
- 7. Binding tape : Polyester tape
- 8. Outer 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

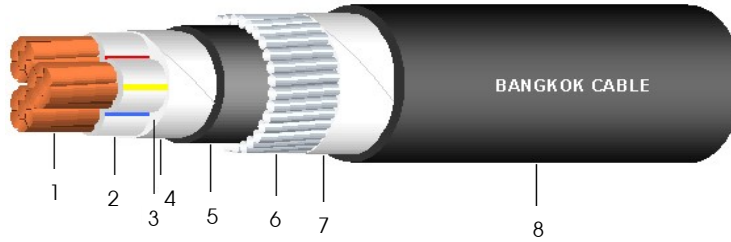
Application

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 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.)	(Approx.)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	(Max.)	A	A	(Approx.)	m/drum
10	6	3.72	2.0	8.1	1.0	20.0	1.6	1.8	28	1.83	70	80	1,440	500
16	6	4.69	2.0	9.1	1.0	22.0	1.6	1.9	30	1.15	95	105	1,740	500
25	6	5.90	2.0	10.3	1.0	25.0	1.6	1.9	33	0.727	120	135	2,160	500
35	6	6.95	2.0	11.4	1.0	27.0	2.0	2.0	36	0.524	150	160	2,820	500
50	6	8.33	2.0	12.7	1.2	30.5	2.0	2.2	40	0.387	180	190	3,480	500
70	12	9.73	2.0	14.1	1.2	33.5	2.0	2.3	43	0.268	230	230	4,290	500
95	15	11.43	2.0	15.8	1.2	37.0	2.5	2.4	48	0.193	280	280	5,700	300
120	18	12.95	2.0	17.4	1.4	41.0	2.5	2.5	52	0.153	320	320	6,780	300
150	18	14.27	2.0	18.7	1.4	44.0	2.5	2.6	55	0.124	360	350	7,850	300
185	30	15.98	2.0	20.4	1.4	47.5	2.5	2.8	59	0.0991	415	400	9,240	200
240	34	18.47	2.0	22.9	1.6	53.5	2.5	3.0	65	0.0754	485	455	11,510	200
300	34	20.68	2.0	25.1	1.6	58.0	2.5	3.1	70	0.0601	550	510	13,710	150
400	53	23.39	2.0	27.8	1.6	64.0	3.15	3.4	78	0.0470	620	560	17,560	100

1.8/3(3.6) kV CV-SWA (CE-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



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. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
- 6. Armour : Galvanized steel wires
- 7. Binding tape : Polyester tape
- 8. Outer 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 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	0.344	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