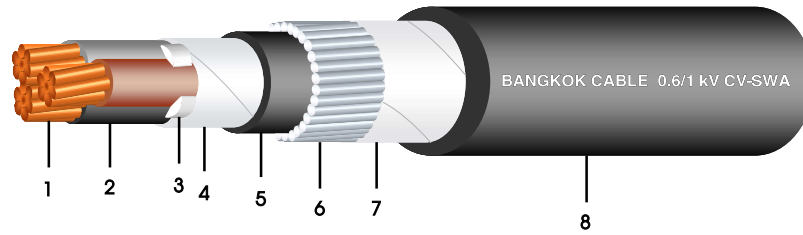


0.6/1 kV CV-SWA (FR-CV-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)
Colour code : Brown, Black, Grey
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Inner sheath : Polyvinyl chloride (PVC), Black colour
6. Armour : Galvanized steel wires
7. Binding tape : Polyester tape
8. Outer sheath : Polyvinyl chloride (PVC), Black colour
(Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

- Maximum conductor temperature : 90°C
Maximum circuit voltage : 1,000 V
AC test voltage : 3,500 V

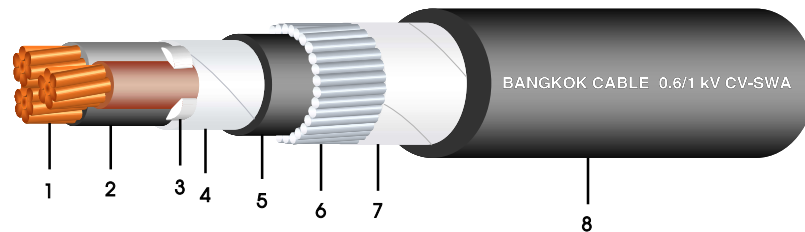
Application

For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

Conductor			Thickness of 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.)	(Nominal)	(Nominal)	(Approx.)	Ω/km	(Max.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.0	9.5	0.8	1.8	15.5	12.1		22	28	370	500
2.5	7	2.01	0.7	1.0	10.5	0.8	1.8	16.5	7.41		29	38	440	500
4	7	2.55	0.7	1.0	11.5	0.8	1.8	17.5	4.61		39	49	630	500
6	7	3.12	0.7	1.0	13.0	0.8	1.8	18.5	3.08		50	62	750	500
10	6	3.72	0.7	1.0	14.0	1.25	1.8	21.0	1.83		67	83	930	500
16	6	4.69	0.7	1.0	16.5	1.25	1.8	23.5	1.15		89	105	1,320	500
25	6	5.90	0.9	1.0	20.0	1.6	1.8	27.5	0.727		120	140	1,810	500
35	6	6.95	0.9	1.0	22.0	1.6	1.8	30.0	0.524		145	170	2,250	500
50	6	8.33	1.0	1.0	26.0	1.6	1.9	34.0	0.387		175	200	2,850	500
70	12	9.73	1.1	1.0	30.0	2.0	2.0	39.0	0.268		220	245	3,990	500
95	15	11.43	1.1	1.2	33.5	2.0	2.2	43.0	0.193		275	295	5,050	400
120	18	12.95	1.2	1.2	37.5	2.0	2.3	47.0	0.153		315	335	6,490	400
150	18	14.27	1.4	1.4	41.5	2.5	2.5	52.5	0.124		360	375	7,780	300
185	30	15.98	1.6	1.4	46.5	2.5	2.6	57.5	0.0991		410	420	9,370	250
240	34	18.47	1.7	1.6	52.5	2.5	2.8	64.5	0.0754		480	480	11,770	200
300	34	20.68	1.8	1.6	58.0	2.5	3.0	70.0	0.0601		550	535	14,120	150
400	53	23.39	2.0	1.6	64.5	2.5	3.2	77.5	0.0470		625	595	18,330	100

0.6/1 kV CV-SWA (FR-CV-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

- 1. Conductor : Circular stranded or circular compacted stranded annealed copper
- 2. Insulation : Cross-linked polyethylene (XLPE)
Colour code : Brown, Black, Grey
- 3. Filler : Polypropylene (Non-hygroscopic material)
- 4. Binding tape : Polyester tape
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- 7. Binding tape : Polyester tape
- 8. Outer sheath : Polyvinyl chloride (PVC), Black colour
(Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 1,000 V
- AC test voltage : 3,500 V

Application

For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

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.)
1.5	15.43	0.332	0.104	15.43
2.5	9.45	0.308	0.0966	9.45
4	5.88	0.288	0.0906	5.88
6	3.93	0.273	0.0856	3.93
10	2.33	0.261	0.0819	2.33
16	1.47	0.248	0.0778	1.47
25	0.927	0.249	0.0782	0.931
35	0.669	0.241	0.0756	0.673
50	0.494	0.237	0.0746	0.500
70	0.343	0.235	0.0738	0.351
95	0.247	0.229	0.0718	0.258
120	0.197	0.227	0.0714	0.209
150	0.160	0.229	0.0720	0.176
185	0.129	0.230	0.0723	0.148
240	0.0996	0.227	0.0713	0.122
300	0.0809	0.225	0.0707	0.107
400	0.0653	0.225	0.0705	0.0961