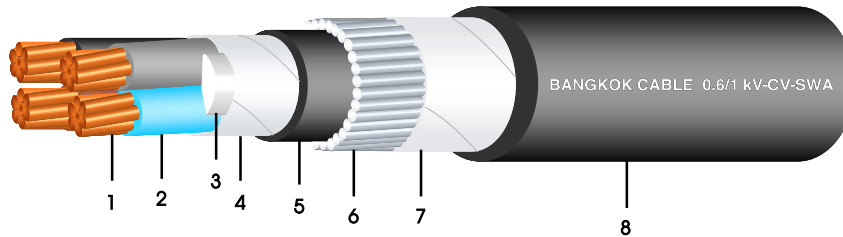


0.6/1 kV CV-SWA (FR-CV-SWA optional)*

4 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 : Blue, 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

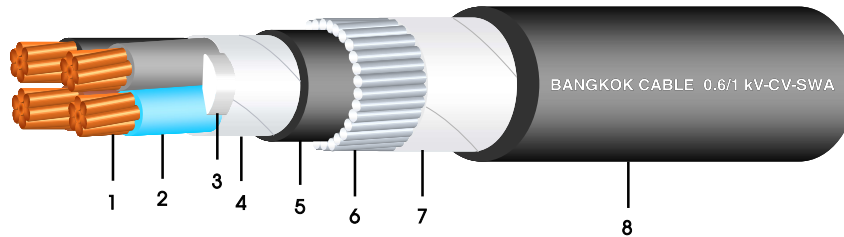
Application

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	10.0	0.8	1.8	16.0	12.1		22	28	420	500
2.5	7	2.01	0.7	1.0	11.5	0.8	1.8	17.0	7.41		29	38	610	500
4	7	2.55	0.7	1.0	12.5	0.8	1.8	18.5	4.61		39	49	720	500
6	7	3.12	0.7	1.0	14.0	1.25	1.8	21.0	3.08		50	62	870	500
10	6	3.72	0.7	1.0	15.5	1.25	1.8	22.5	1.83		67	83	1,090	500
16	6	4.69	0.7	1.0	18.0	1.6	1.8	25.5	1.15		89	105	1,570	500
25	6	5.90	0.9	1.0	22.0	1.6	1.8	29.5	0.727		120	140	2,170	500
35	6	6.95	0.9	1.0	24.5	1.6	1.9	32.5	0.524		145	170	2,740	500
50	6	8.33	1.0	1.0	28.5	1.6	2.0	37.0	0.387		175	200	3,740	500
70	12	9.73	1.1	1.2	33.0	2.0	2.2	42.5	0.268		220	245	4,900	400
95	15	11.43	1.1	1.2	37.0	2.0	2.3	47.0	0.193		275	295	6,660	400
120	18	12.95	1.2	1.4	42.0	2.5	2.5	53.0	0.153		315	335	8,120	300
150	18	14.27	1.4	1.4	46.0	2.5	2.6	57.5	0.124		360	375	9,620	250
185	30	15.98	1.6	1.4	52.0	2.5	2.8	63.5	0.0991		410	420	11,750	200
240	34	18.47	1.7	1.6	58.5	2.5	3.0	70.5	0.0754		480	480	14,710	100
300	34	20.68	1.8	1.6	64.5	2.5	3.2	77.0	0.0601		550	535	18,660	100
400	53	23.39	2.0	1.8	72.5	3.15	3.5	87.0	0.0470		625	595	23,100	100

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

4 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

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(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	0.356	0.112	15.43
2.5	9.45	0.331	0.1039	9.45
4	5.88	0.311	0.0979	5.88
6	3.93	0.296	0.0929	3.93
10	2.33	0.284	0.0891	2.34
16	1.47	0.271	0.0851	1.47
25	0.927	0.272	0.0854	0.931
35	0.669	0.264	0.0829	0.674
50	0.494	0.260	0.0818	0.501
70	0.343	0.258	0.0810	0.352
95	0.247	0.252	0.0791	0.260
120	0.197	0.250	0.0787	0.212
150	0.160	0.252	0.0793	0.179
185	0.129	0.253	0.0795	0.151
240	0.0996	0.250	0.0786	0.127
300	0.0809	0.248	0.0780	0.112
400	0.0653	0.248	0.0778	0.1016