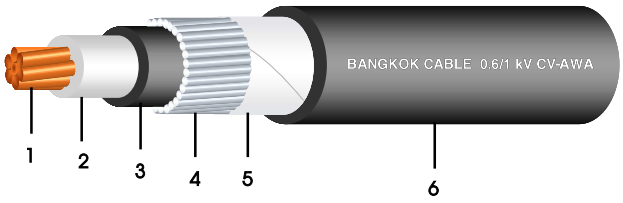
0.6/1 kV CV-AWA (FR-CV-AWA optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Innner sheath : Polyvinyl chloride (PVC), Black colour
4. Armour : Aluminium wires
5. Binding tape : Polyester tape
6. 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.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.0	5.5	0.8	1.8	11.5	12.1	28	34	150	500
2.5	7	2.01	0.7	1.0	6.0	0.8	1.8	12.0	7.41	37	45	170	500
4	7	2.55	0.7	1.0	6.5	0.8	1.8	12.5	4.61	49	58	190	500
6	7	3.12	0.7	1.0	7.0	0.8	1.8	13.0	3.08	61	73	220	500
10	6	3.72	0.7	1.0	8.0	0.8	1.8	13.5	1.83	82	96	270	500
16	6	4.69	0.7	1.0	9.0	0.8	1.8	14.5	1.15	105	120	350	500
25	6	5.90	0.9	1.0	10.5	0.8	1.8	16.5	0.727	140	160	470	500
35	6	6.95	0.9	1.0	11.5	0.8	1.8	17.5	0.524	175	190	630	500
50	6	8.33	1.0	1.0	13.0	1.25	1.8	20.0	0.387	210	225	790	500
70	12	9.73	1.1	1.0	15.0	1.25	1.8	21.5	0.268	265	280	1,020	500
95	15	11.43	1.1	1.0	16.5	1.25	1.8	23.5	0.193	325	335	1,360	500
120	18	12.95	1.2	1.0	18.0	1.6	1.8	26.0	0.153	380	385	1,640	500
150	18	14.27	1.4	1.0	20.0	1.6	1.8	27.5	0.124	430	430	1,960	500
185	30	15.98	1.6	1.0	22.0	1.6	1.8	30.0	0.0991	495	485	2,370	500
240	34	18.47	1.7	1.0	25.0	1.6	1.9	33.0	0.0754	585	565	3,000	500
300	34	20.68	1.8	1.0	27.5	1.6	1.9	35.5	0.0601	675	640	3,750	500
400	53	23.39	2.0	1.2	31.0	2.0	2.1	40.0	0.0470	770	730	4,720	500
500	53	26.67	2.2	1.2	34.5	2.0	2.2	44.0	0.0366	880	830	5,910	400
630	53	30.22	2.4	1.2	38.5	2.0	2.3	48.5	0.0283	985	940	7,590	400
800	53	34.00	2.6	1.4	43.5	2.5	2.5	54.5	0.0221	1,085	1,050	9,550	300

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

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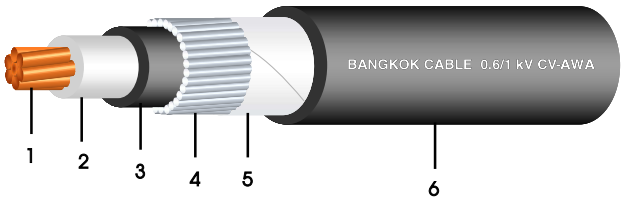

Construction

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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	0.777	0.244	15.43
2.5	9.45	0.734	0.231	9.45
4	5.88	0.696	0.219	5.88
6	3.93	0.661	0.208	3.93
10	2.33	0.631	0.198	2.34
16	1.47	0.599	0.188	1.48
25	0.927	0.579	0.182	0.945
35	0.668	0.569	0.179	0.692
50	0.494	0.549	0.172	0.523
70	0.342	0.532	0.167	0.381
95	0.247	0.522	0.164	0.296
120	0.196	0.513	0.161	0.254
150	0.159	0.505	0.159	0.225
185	0.128	0.499	0.157	0.202
240	0.0981	0.490	0.154	0.182
300	0.0791	0.487	0.153	0.172
400	0.0631	0.483	0.152	0.164
500	0.0508	0.476	0.149	0.158
630	0.0412	0.472	0.148	0.154
800	0.0343	0.470	0.148	0.151

* Condition : Three cable laid in flat formation with a clearance between cables of 1.0 times the cable overall diameter