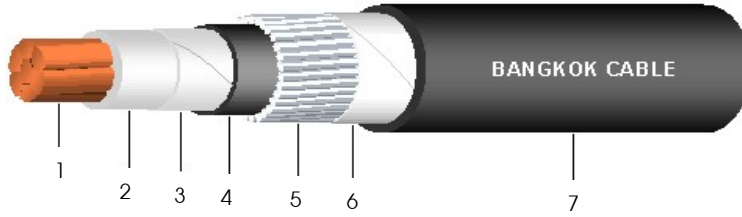


1.8/3(3.6) kV CV-AWA (CE-AWA optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

- 1. Conductor : Circular compact stranded annealed copper
- 2. Insulation : Cross-linked polyethylene (XLPE) compound
- 3. Binding tape : Polyester or Spunbond tape
- 4. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
- 5. Armour : Aluminium wires
- 6. Binding tape : Polyester tape
- 7. 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

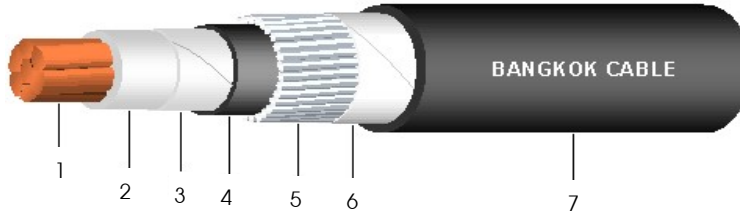
Application

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.)	Ω/km	A	A	kg/km (Approx.)	m/drum
10	6	3.72	2.0	8.1	1.0	10.5	0.8	1.8	17	1.83	100	90	380	500
16	6	4.69	2.0	9.1	1.0	11.5	1.25	1.8	19	1.15	130	120	510	500
25	6	5.90	2.0	10.3	1.0	13.0	1.25	1.8	20	0.727	170	150	620	500
35	6	6.95	2.0	11.4	1.0	14.0	1.25	1.8	21	0.524	210	180	740	500
50	6	8.33	2.0	12.7	1.0	15.5	1.25	1.8	22	0.387	255	220	890	500
70	12	9.73	2.0	14.1	1.0	16.5	1.6	1.8	24	0.268	320	270	1,160	500
95	15	11.43	2.0	15.8	1.0	18.5	1.6	1.8	26	0.193	390	320	1,460	500
120	18	12.95	2.0	17.4	1.0	20.0	1.6	1.8	28	0.153	455	360	1,720	500
150	18	14.27	2.0	18.7	1.0	21.5	1.6	1.8	29	0.124	520	410	2,010	500
185	30	15.98	2.0	20.4	1.0	23.0	1.6	1.9	31	0.0991	595	460	2,420	500
240	34	18.47	2.0	22.9	1.0	25.5	1.6	1.9	33	0.0754	710	540	3,010	500
300	34	20.68	2.0	25.1	1.0	27.5	2.0	2.0	36	0.0601	820	610	3,730	500
400	53	23.39	2.0	27.8	1.2	31.0	2.0	2.2	40	0.0470	950	690	4,660	500
500	53	26.67	2.2	31.5	1.2	34.5	2.0	2.3	44	0.0366	1,110	790	5,820	300
630	53	30.22	2.4	35.4	1.2	38.5	2.5	2.4	49	0.0283	1,300	900	7,450	300
800	53	34.00	2.6	39.6	1.4	43.0	2.5	2.6	54	0.0221	1,490	1010	9,370	250

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

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

- 1. Conductor : Circular compact stranded annealed copper
- 2. Insulation : Cross-linked polyethylene (XLPE) compound
- 3. Binding tape : Polyester or Spunbond tape
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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	0.677	0.213	2.34
16	1.47	0.653	0.205	1.48
25	0.927	0.618	0.194	0.947
35	0.668	0.595	0.187	0.694
50	0.494	0.568	0.178	0.525
70	0.342	0.554	0.174	0.384
95	0.246	0.538	0.169	0.299
120	0.196	0.528	0.166	0.256
150	0.159	0.515	0.162	0.227
185	0.127	0.506	0.159	0.204
240	0.0973	0.490	0.154	0.182
300	0.0781	0.484	0.152	0.171
400	0.0617	0.481	0.151	0.163
500	0.0490	0.474	0.149	0.157
630	0.0390	0.470	0.148	0.153
800	0.0317	0.466	0.146	0.150