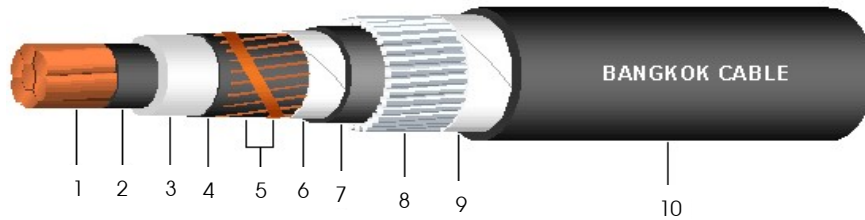


18/30(36) kV CV-AWA (CE-AWA optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor : Circular compact stranded annealed copper
2. Conductor screen : Semi-conductive cross-linked polyethylene compound
3. Insulation : Cross-linked polyethylene (XLPE) compound
4. Insulation screen : Semi-conductive cross-linked polyethylene compound
5. Metallic screen : Copper wires with copper contact tape
6. Binding tape : Polyester tape
7. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour : Aluminium wires
9. Binding tape : Polyester tape
10. Outer sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
 Maximum circuit voltage : 36 kV
 AC test voltage : 63 kV

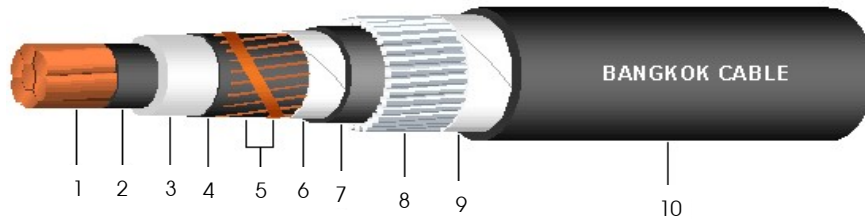
Application

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	Area of metallic screen	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.)	mm ²	(Nominal)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
50	6	8.33	8.0	25.9	10	1.2	32.0	2.0	2.2	41	0.387	260	220	2,150	500
70	12	9.73	8.0	27.3	10	1.2	33.5	2.0	2.3	43	0.268	320	270	2,440	500
95	15	11.43	8.0	29.0	10	1.2	35.5	2.0	2.3	45	0.193	390	320	2,780	500
120	18	12.95	8.0	30.6	10	1.3	37.0	2.5	2.4	48	0.153	450	360	3,280	500
150	18	14.27	8.0	31.9	16	1.3	38.5	2.5	2.5	49	0.124	515	410	3,700	500
185	30	15.98	8.0	33.6	16	1.3	40.0	2.5	2.5	51	0.0991	590	460	4,140	500
240	34	18.47	8.0	36.1	25	1.4	43.0	2.5	2.6	54	0.0754	700	535	4,950	300
300	34	20.68	8.0	38.3	25	1.4	45.0	2.5	2.7	56	0.0601	800	605	5,680	300
400	53	23.39	8.0	41.0	25	1.5	48.0	2.5	2.8	59	0.0470	930	690	6,680	300
500	53	26.67	8.0	44.8	25	1.5	51.5	2.5	2.9	64	0.0366	1,080	790	7,980	250
630	53	30.22	8.0	48.4	25	1.6	55.5	2.5	3.0	68	0.0283	1,250	900	9,590	250
800	53	34.00	8.0	52.2	25	1.6	59.5	2.5	3.1	72	0.0221	1,430	1010	11,500	200

18/30(36) kV CV-AWA (CE-AWA optional)*

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Reference Standard

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Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 36 kV
- AC test voltage : 63 kV

Application

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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.)
50	0.494	0.692	0.217	0.539
70	0.342	0.671	0.211	0.402
95	0.246	0.648	0.203	0.320
120	0.196	0.635	0.200	0.279
150	0.159	0.620	0.195	0.251
185	0.127	0.606	0.190	0.229
240	0.0971	0.588	0.185	0.209
300	0.0778	0.573	0.180	0.196
400	0.0615	0.559	0.175	0.186
500	0.0487	0.549	0.172	0.179
630	0.0386	0.536	0.168	0.173
800	0.0314	0.524	0.164	0.167