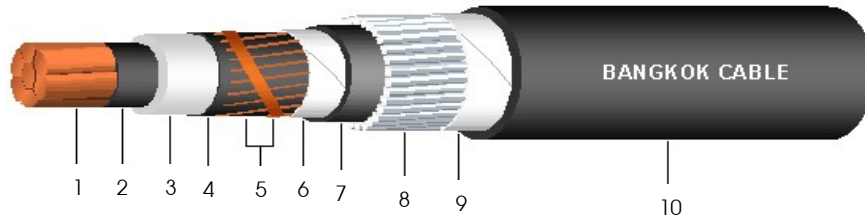


8.7/15(17.5) kV CV-AWA (CE-AWA optional)*

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 : Polyeste tape
7. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour : Aluminium wires
9. Binding tape : Polyeste tape
10. Outer sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
 Maximum circuit voltage : 17.5 kV
 AC test voltage : 30.5 kV

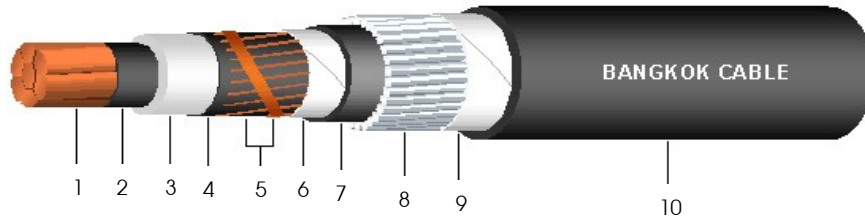
Application

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	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
25	6	5.90	4.5	16.5	10	1.2	22.5	1.6	1.9	31	0.727	180	155	1,230	500
35	6	6.95	4.5	17.6	10	1.2	24.0	1.6	1.9	32	0.524	220	185	1,370	500
50	6	8.33	4.5	18.9	10	1.2	25.0	1.6	1.9	33	0.387	260	220	1,550	500
70	12	9.73	4.5	20.3	10	1.2	26.5	1.6	2.0	35	0.268	330	270	1,810	500
95	15	11.43	4.5	22.0	10	1.2	28.5	2.0	2.1	37	0.193	400	320	2,230	500
120	18	12.95	4.5	23.6	10	1.2	30.0	2.0	2.1	39	0.153	460	365	2,530	500
150	18	14.27	4.5	24.9	16	1.2	31.0	2.0	2.2	40	0.124	520	410	2,920	500
185	30	15.98	4.5	26.6	16	1.2	33.0	2.0	2.2	42	0.0991	600	460	3,330	500
240	34	18.47	4.5	29.1	25	1.2	35.5	2.0	2.3	45	0.0754	710	540	4,080	500
300	34	20.68	4.5	31.3	25	1.3	37.5	2.5	2.4	48	0.0601	820	610	4,930	300
400	53	23.39	4.5	34.0	25	1.3	40.5	2.5	2.5	51	0.0470	950	695	5,860	300
500	53	26.67	4.5	37.8	25	1.4	44.5	2.5	2.6	56	0.0366	1,105	790	7,140	300
630	53	30.22	4.5	41.4	25	1.4	48.0	2.5	2.7	59	0.0283	1,280	900	8,670	250
800	53	34.00	4.5	45.2	25	1.5	52.0	2.5	2.9	64	0.0221	1,470	1020	10,600	200

8.7/15(17.5) kV CV-AWA (CE-AWA optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

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Reference Standard

IEC 60502-2

Classification

- Maximum conductor temperature : 90°C
- Maximum circuit voltage : 17.5 kV
- AC test voltage : 30.5 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.)
25	0.927	0.705	0.222	0.953
35	0.668	0.679	0.213	0.701
50	0.494	0.649	0.204	0.534
70	0.342	0.629	0.198	0.395
95	0.246	0.608	0.191	0.312
120	0.196	0.594	0.187	0.270
150	0.159	0.580	0.182	0.242
185	0.127	0.567	0.178	0.219
240	0.0971	0.552	0.173	0.199
300	0.0779	0.542	0.170	0.187
400	0.0616	0.529	0.166	0.177
500	0.0488	0.522	0.164	0.171
630	0.0388	0.507	0.159	0.164
800	0.0315	0.500	0.157	0.160