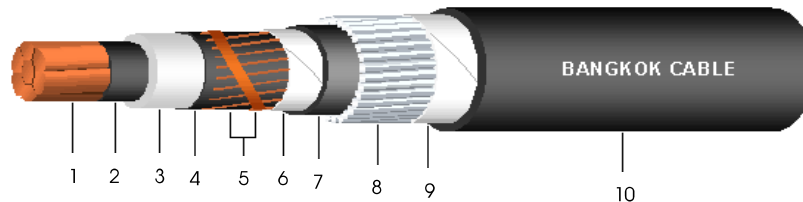


18/30(36) kV CV-AWA (CE-AWA optional)*

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 or Spunbond tape
7. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour : Aluminium wires
9. Binding tape : Polyester or Spunbond 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.)	mm (Nominal)	mm (Approx.)	mm ²	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
50	6	8.33	8.0	26.1	10	1.2	32.5	2.0	2.2	43	0.387	245	215	2,170	500
70	12	9.73	8.0	27.5	10	1.2	34.0	2.0	2.3	45	0.268	305	265	2,460	500
95	15	11.43	8.0	29.2	10	1.2	35.5	2.0	2.3	46	0.193	370	315	2,800	500
120	18	12.95	8.0	30.7	10	1.3	37.5	2.5	2.4	49	0.153	430	360	3,310	500
150	18	14.27	8.0	32.1	16	1.3	38.5	2.5	2.5	51	0.124	485	400	3,730	500
185	30	15.98	8.0	33.8	16	1.3	40.5	2.5	2.5	53	0.0991	555	455	4,170	500
240	34	18.47	8.0	36.3	25	1.4	43.5	2.5	2.6	56	0.0754	655	530	5,020	300
300	34	20.68	8.0	38.5	25	1.4	46.0	2.5	2.7	59	0.0601	750	595	5,750	300
400	53	23.39	8.0	41.2	25	1.5	48.5	2.5	2.8	62	0.0470	870	675	6,760	300
500	53	26.67	8.0	45.0	25	1.5	52.5	2.5	2.9	66	0.0366	1,005	770	8,070	250
630	53	30.22	8.0	48.6	25	1.6	56.0	2.5	3.0	70	0.0283	1,155	870	9,690	250
800	53	34.00	8.0	52.4	25	1.7	60.0	2.5	3.1	74	0.0221	1,310	970	11,650	200