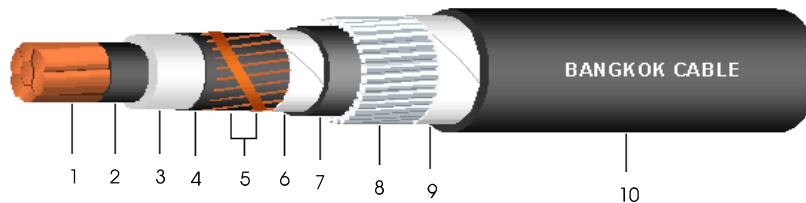


3.6/6(7.2) kV CV-AWA (CE-AWA optional)*

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 : 7.2 kV
 AC test voltage : 12.5 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.)	mm	mm	mm ²	(Nominal)	mm	mm	mm	mm	Ω/km	A	A	kg/km	m/drum
10	6	3.72	2.5	10.1	10	1.2	16.5	1.6	1.6	24	1.83	95	90	760	500
16	6	4.69	2.5	11.0	10	1.2	17.5	1.6	1.7	25	1.15	130	120	860	500
25	6	5.90	2.5	12.3	10	1.2	18.5	1.6	1.7	27	0.727	170	155	990	500
35	6	6.95	2.5	13.3	10	1.2	19.5	1.6	1.7	28	0.524	205	185	1,120	500
50	6	8.33	2.5	14.7	10	1.2	21.0	1.6	1.8	29	0.387	250	220	1,310	500
70	12	9.73	2.5	16.1	10	1.2	22.5	1.6	1.8	31	0.268	310	265	1,550	500
95	15	11.43	2.5	17.8	10	1.2	24.0	1.6	1.9	33	0.193	375	320	1,870	500
120	18	12.95	2.5	19.3	10	1.2	25.5	1.6	1.9	34	0.153	435	360	2,150	500
150	18	14.27	2.5	20.6	16	1.2	27.0	2.0	2.0	37	0.124	495	405	2,610	500
185	30	15.98	2.5	22.3	16	1.2	29.0	2.0	2.1	39	0.0991	565	460	3,040	500
240	34	18.47	2.6	25.0	25	1.2	32.0	2.0	2.2	42	0.0754	670	535	3,800	500
300	34	20.68	2.8	27.7	25	1.2	34.5	2.0	2.3	45	0.0601	770	605	4,500	500
400	53	23.39	3.0	30.8	25	1.3	38.0	2.5	2.4	50	0.0470	895	685	5,610	300
500	53	26.67	3.2	35.0	25	1.3	42.0	2.5	2.5	54	0.0366	1,035	775	6,870	300
630	53	30.22	3.2	38.6	25	1.4	45.5	2.5	2.7	59	0.0283	1,190	875	8,460	250
800	53	34.00	3.2	42.4	25	1.5	49.5	2.5	2.8	63	0.0221	1,350	980	10,360	200