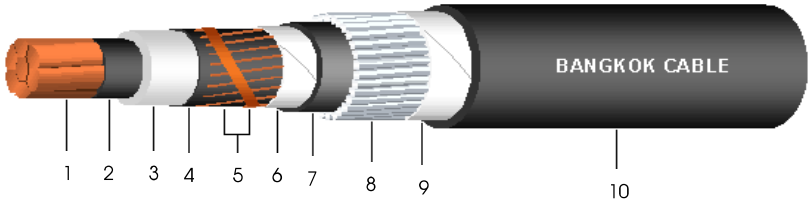
6/10(12) kV CV-AWA (CE-AWA optional)*

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 : 12 kV
AC test voltage : 21 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.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm^2	(Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
16	6	4.69	3.4	12.9	10	1.2	19.5	1.6	1.7	27	1.15	130	120	950	500
25	6	5.90	3.4	14.1	10	1.2	20.5	1.6	1.8	29	0.727	170	155	1,100	500
35	6	6.95	3.4	15.2	10	1.2	21.5	1.6	1.8	30	0.524	205	185	1,230	500
50	6	8.33	3.4	16.6	10	1.2	23.0	1.6	1.9	32	0.387	250	215	1,420	500
70	12	9.73	3.4	18.0	10	1.2	24.5	1.6	1.9	33	0.268	310	265	1,660	500
95	15	11.43	3.4	19.7	10	1.2	26.0	1.6	2.0	35	0.193	375	320	1,990	500
120	18	12.95	3.4	21.2	10	1.2	27.5	2.0	2.0	37	0.153	435	360	2,370	500
150	18	14.27	3.4	22.5	16	1.2	29.0	2.0	2.1	39	0.124	495	405	2,750	500
185	30	15.98	3.4	24.2	16	1.2	30.5	2.0	2.1	41	0.0991	565	460	3,170	500
240	34	18.47	3.4	26.7	25	1.2	33.5	2.0	2.2	44	0.0754	670	535	3,920	500
300	34	20.68	3.4	28.9	25	1.2	36.0	2.0	2.3	46	0.0601	770	605	4,600	500
400	53	23.39	3.4	31.6	25	1.3	38.5	2.5	2.4	51	0.0470	890	685	5,680	300
500	53	26.67	3.4	35.5	25	1.3	42.5	2.5	2.6	55	0.0366	1,030	785	6,950	300
630	53	30.22	3.4	39.0	25	1.4	46.0	2.5	2.7	59	0.0283	1,190	890	8,500	250
800	53	34.00	3.4	42.8	25	1.5	50.0	2.5	2.8	63	0.0221	1,350	995	10,390	200