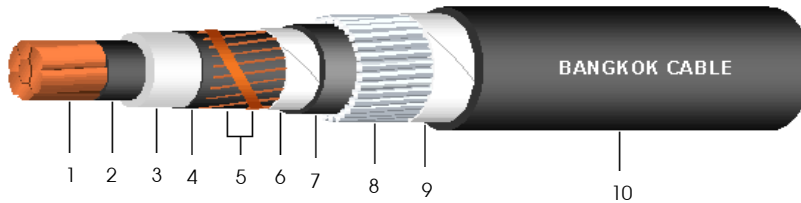


8.7/15(17.5) kV CV-AWA (CE-AWA optional)*

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 : 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 : 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.)	mm (Nominal)	mm (Approx.)	mm ²	(Nominal)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	mm	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
25	6	5.90	4.5	16.4	10	1.2	23.0	1.6	1.9	31	0.727	170	150	1,230	500	
35	6	6.95	4.5	17.5	10	1.2	24.0	1.6	1.9	32	0.524	205	180	1,370	500	
50	6	8.33	4.5	18.8	10	1.2	25.5	1.6	1.9	34	0.387	250	215	1,550	500	
70	12	9.73	4.5	20.2	10	1.2	27.0	1.6	2.0	36	0.268	305	265	1,820	500	
95	15	11.43	4.5	21.9	10	1.2	28.5	2.0	2.1	38	0.193	375	320	2,240	500	
120	18	12.95	4.5	23.5	10	1.2	30.0	2.0	2.1	40	0.153	435	360	2,540	500	
150	18	14.27	4.5	24.8	16	1.2	31.0	2.0	2.2	42	0.124	490	405	2,930	500	
185	30	15.98	4.5	26.5	16	1.2	33.0	2.0	2.2	43	0.0991	565	460	3,350	500	
240	34	18.47	4.5	29.0	25	1.2	36.0	2.0	2.3	47	0.0754	665	530	4,120	500	
300	34	20.68	4.5	31.2	25	1.3	38.5	2.5	2.4	50	0.0601	765	600	4,980	300	
400	53	23.39	4.5	33.9	25	1.3	41.0	2.5	2.5	53	0.0470	885	680	5,910	300	
500	53	26.67	4.5	37.7	25	1.4	45.0	2.5	2.6	58	0.0366	1,025	775	7,190	300	
630	53	30.22	4.5	41.3	25	1.4	48.5	2.5	2.7	61	0.0283	1,180	875	8,730	250	
800	53	34.00	4.5	45.1	25	1.5	52.5	2.5	2.9	66	0.0221	1,340	975	10,670	200	