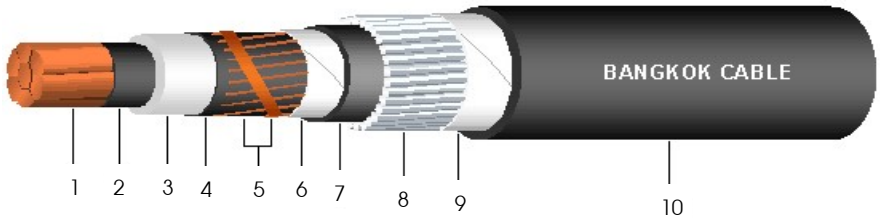
3.6/6(7.2) kV CV-AWA (CE-AWA optional)*

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 tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyester 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.)	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
10	6	3.72	2.5	10.3	10	1.2	16.5	1.6	1.6	24	1.83	110	90	770	500
16	6	4.69	2.5	11.3	10	1.2	17.5	1.6	1.7	25	1.15	140	120	870	500
25	6	5.90	2.5	12.5	10	1.2	18.5	1.6	1.7	26	0.727	180	160	1,000	500
35	6	6.95	2.5	13.6	10	1.2	20.0	1.6	1.7	27	0.524	220	190	1,130	500
50	6	8.33	2.5	14.9	10	1.2	21.0	1.6	1.8	29	0.387	265	220	1,310	500
70	12	9.73	2.5	16.3	10	1.2	22.5	1.6	1.8	30	0.268	330	270	1,550	500
95	15	11.43	2.5	18.0	10	1.2	24.5	1.6	1.9	32	0.193	400	320	1,870	500
120	18	12.95	2.5	19.6	10	1.2	26.0	1.6	1.9	34	0.153	460	365	2,150	500
150	18	14.27	2.5	20.9	16	1.2	27.0	2.0	2.0	36	0.124	530	410	2,610	500
185	30	15.98	2.5	22.6	16	1.2	29.0	2.0	2.1	38	0.0991	610	465	3,030	500
240	34	18.47	2.6	25.3	25	1.2	31.5	2.0	2.2	41	0.0754	720	540	3,780	500
300	34	20.68	2.8	27.9	25	1.2	34.0	2.0	2.3	44	0.0601	825	610	4,470	500
400	53	23.39	3.0	31.0	25	1.3	37.5	2.5	2.4	48	0.0470	960	700	5,580	300
500	53	26.67	3.2	35.2	25	1.3	41.5	2.5	2.5	53	0.0366	1,120	795	6,830	300
630	53	30.22	3.2	38.8	25	1.4	45.5	2.5	2.6	57	0.0283	1,300	905	8,390	250
800	53	34.00	3.2	42.6	25	1.5	49.5	2.5	2.8	61	0.0221	1,480	1020	10,290	200

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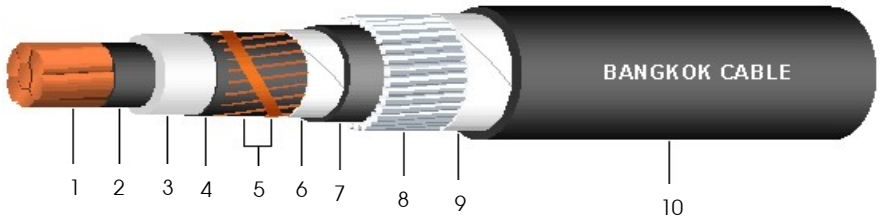

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Reference Standard

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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 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.)
10	2.33	0.746	0.234	2.35
16	1.47	0.708	0.222	1.48
25	0.927	0.670	0.211	0.951
35	0.668	0.645	0.203	0.698
50	0.494	0.623	0.196	0.531
70	0.342	0.599	0.188	0.390
95	0.246	0.579	0.182	0.306
120	0.196	0.567	0.178	0.264
150	0.159	0.559	0.175	0.237
185	0.127	0.547	0.172	0.214
240	0.0972	0.533	0.167	0.194
300	0.0779	0.524	0.165	0.182
400	0.0616	0.517	0.162	0.174
500	0.0488	0.511	0.160	0.168
630	0.0388	0.500	0.157	0.162
800	0.0316	0.490	0.154	0.157