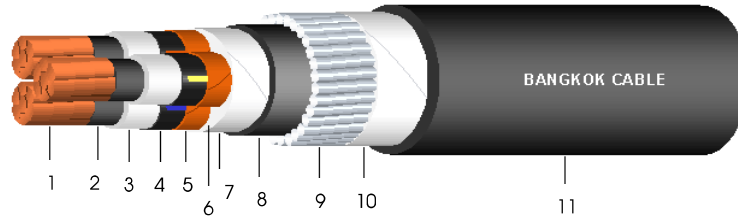


12/20(24) kV CV-SWA (CE-SWA optional)*

3 CORES - 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 tape
 - 6. Filler : Polypropylene (Non-hygroscopic material)
 - 7. Binding tape : Polyester or Spunbond tape
 - 8. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
 - 9. Armour : Galvanized steel wires
 - 10. Binding tape : Polyester or Spunbond tape
 - 11. Outer sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

Maximum conductor temperature : 90°C
 Maximum circuit voltage : 24 kV
 AC test voltage : 42 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	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.)	(Nominal)	(Approx.)	(Nominal)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	Ω/km	(Max.)	A	A	kg/km (Approx.)	m/drum
35	6	6.95	5.5	19.5	1.5	50.0	2.5	2.9	64	0.524		180	170	6,350	300
50	6	8.33	5.5	20.9	1.6	53.5	2.5	3.0	67	0.387		215	200	7,150	300
70	12	9.73	5.5	22.3	1.6	56.5	2.5	3.1	70	0.268		265	245	8,160	300
95	15	11.43	5.5	24.0	1.7	60.0	2.5	3.2	75	0.193		320	295	9,480	250
120	18	12.95	5.5	25.5	1.8	63.5	3.15	3.4	80	0.153		365	330	11,600	200
150	18	14.27	5.5	26.9	1.8	66.5	3.15	3.5	83	0.124		410	370	12,850	150
185	30	15.98	5.5	28.6	1.9	70.5	3.15	3.6	87	0.0991		465	415	14,550	150
240	34	18.47	5.5	31.1	2.0	76.0	3.15	3.8	94	0.0754		545	475	17,120	100
300	34	20.68	5.5	33.3	2.1	81.0	3.15	3.9	99	0.0601		615	530	19,690	100