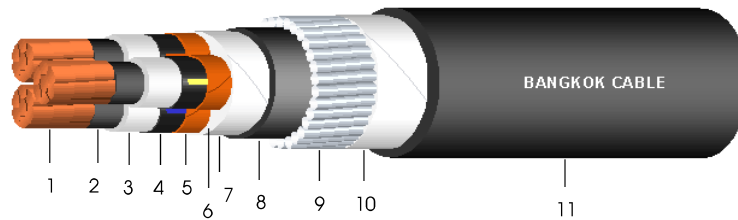


# 18/30(36) kV CV-SWA (CE-SWA optional)\*

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 : 36 kV  
 AC test voltage : 63 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 <sup>2</sup>	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
50	6	8.33	8.0	26.1	1.8	65.0	3.15	3.4	81	0.387	215	200	10,020	200
70	12	9.73	8.0	27.5	1.9	68.0	3.15	3.5	85	0.268	265	245	11,160	200
95	15	11.43	8.0	29.2	1.9	72.0	3.15	3.7	89	0.193	320	290	12,610	150
120	18	12.95	8.0	30.7	2.0	75.5	3.15	3.8	93	0.153	365	330	13,990	150
150	18	14.27	8.0	32.1	2.0	78.0	3.15	3.9	96	0.124	415	370	15,240	150
185	30	15.98	8.0	33.8	2.1	82.0	3.15	4.0	100	0.0991	470	415	17,020	100
240	34	18.47	8.0	36.3	2.2	87.5	3.15	4.2	107	0.0754	545	475	19,770	100