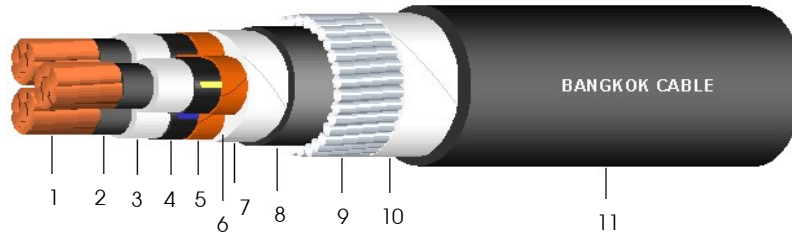


# 8.7/15(17.5) kV CV-SWA (CE-SWA optional)\*

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 tape
8. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)\*
9. Armour : Galvanized steel wires
10. Binding tape : Polyester tape
11. 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

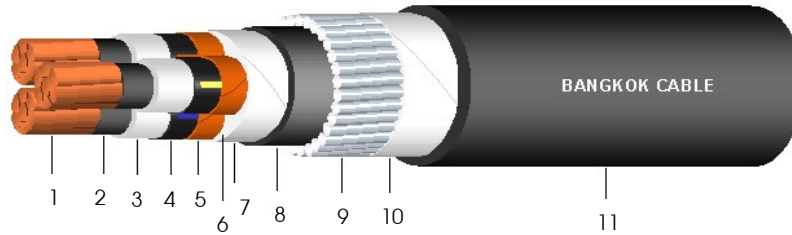
## Application

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	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.)	(Approx.)	(Nominal)	(Approx.)	(Nominal)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	Ω/km	A	A	kg/km	m/drum
25	6	5.90	4.5	16.5	1.4	43.0	2.5	2.6	54	0.727	145	140	4,980	300
35	6	6.95	4.5	17.6	1.4	45.5	2.5	2.7	57	0.524	175	170	5,550	300
50	6	8.33	4.5	18.9	1.5	48.5	2.5	2.8	60	0.387	210	200	6,300	300
70	12	9.73	4.5	20.3	1.5	51.5	2.5	2.9	63	0.268	265	245	7,230	300
95	15	11.43	4.5	22.0	1.6	55.5	2.5	3.1	68	0.193	320	295	8,510	250
120	18	12.95	4.5	23.6	1.7	59.0	2.5	3.2	71	0.153	365	330	9,690	200
150	18	14.27	4.5	24.9	1.7	62.0	3.15	3.3	76	0.124	415	370	11,660	200
185	30	15.98	4.5	26.6	1.8	65.5	3.15	3.5	80	0.0991	470	415	13,320	150
240	34	18.47	4.5	29.1	1.9	71.5	3.15	3.6	86	0.0754	550	475	15,800	150
300	34	20.68	4.5	31.3	2.0	76.5	3.15	3.8	91	0.0601	620	530	18,320	100

# 8.7/15(17.5) kV CV-SWA (CE-SWA optional)\*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



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## Reference Standard

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## Classification

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- 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 cross-sectional area mm <sup>2</sup>	AC Resistance of conductor at 90 °C Ω/km (Approx.)	Inductance mH/km (Approx.)	Reactance Ω/km (Approx.)	Impedance Ω/km (Approx.)
25	0.927	0.415	0.130	0.936
35	0.668	0.394	0.124	0.680
50	0.494	0.371	0.116	0.507
70	0.342	0.353	0.111	0.360
95	0.247	0.335	0.105	0.268
120	0.196	0.323	0.102	0.221
150	0.159	0.314	0.0986	0.187
185	0.128	0.304	0.0954	0.160
240	0.0983	0.292	0.0916	0.134
300	0.0795	0.283	0.0888	0.119