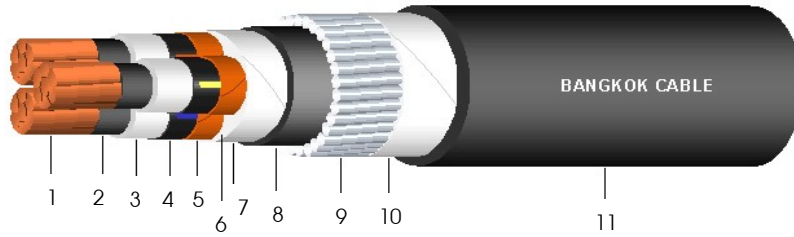


12/20(24) kV CV-SWA (CE-SWA optional)*

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 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 : 24 kV
 AC test voltage : 42 kV

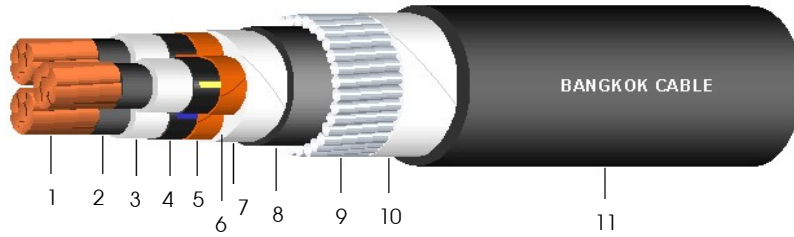
Application

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	direct burial in ground		
mm ²	(Min.)	(Approx.)	mm	mm	mm	mm	mm	mm	mm	Ω/km	at 40°C ambient	at 30°C	kg/km	m/drum
35	6	6.95	5.5	19.6	1.5	50.0	2.5	2.9	62	0.524	180	170	6,190	300
50	6	8.33	5.5	20.9	1.6	53.0	2.5	3.0	65	0.387	215	200	6,970	300
70	12	9.73	5.5	22.3	1.6	56.0	2.5	3.1	68	0.268	265	245	7,960	300
95	15	11.43	5.5	24.0	1.7	60.0	2.5	3.2	72	0.193	320	295	9,230	250
120	18	12.95	5.5	25.6	1.8	63.5	3.15	3.4	78	0.153	365	330	11,320	200
150	18	14.27	5.5	26.9	1.8	66.5	3.15	3.5	81	0.124	410	370	12,550	150
185	30	15.98	5.5	28.6	1.9	70.0	3.15	3.6	85	0.0991	465	415	14,200	150
240	34	18.47	5.5	31.1	2.0	76.0	3.15	3.8	91	0.0754	545	475	16,710	100
300	34	20.68	5.5	33.3	2.1	81.0	3.15	3.9	96	0.0601	615	530	19,220	100

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

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

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Reference Standard

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Classification

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- AC test voltage : 42 kV

Application

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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.)
35	0.668	0.414	0.130	0.681
50	0.494	0.389	0.122	0.509
70	0.342	0.370	0.116	0.361
95	0.247	0.351	0.110	0.270
120	0.196	0.339	0.106	0.223
150	0.159	0.328	0.103	0.190
185	0.128	0.317	0.100	0.162
240	0.0982	0.304	0.0955	0.137
300	0.0793	0.294	0.0925	0.122