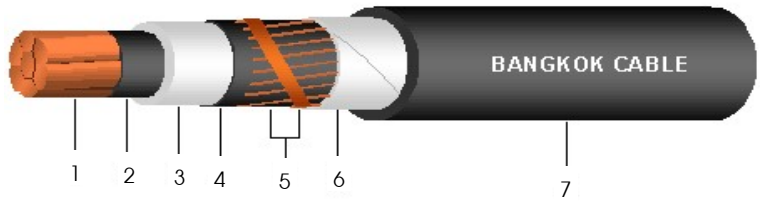
8.7/15(17.5) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



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. 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

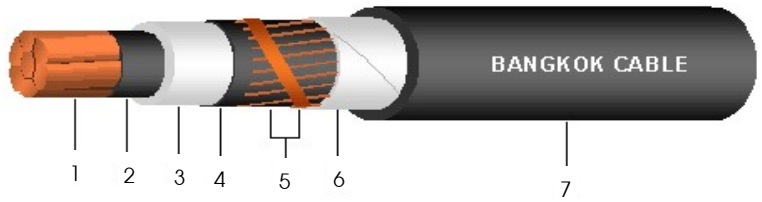
Application

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	Area of metallic screen	Thickness of sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation 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	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
25	6	5.90	4.5	16.5	10	1.7	24	0.727	3,350	180	150	750	500
35	6	6.95	4.5	17.6	10	1.7	25	0.524	3,050	215	180	860	500
50	6	8.33	4.5	18.9	10	1.7	26	0.387	2,730	260	220	1,010	500
70	12	9.73	4.5	20.3	10	1.8	28	0.268	2,470	320	270	1,250	500
95	15	11.43	4.5	22.0	10	1.8	30	0.193	2,210	390	320	1,530	500
120	18	12.95	4.5	23.6	10	1.9	31	0.153	2,020	450	360	1,810	500
150	18	14.27	4.5	24.9	16	1.9	33	0.124	1,890	515	410	2,150	500
185	30	15.98	4.5	26.6	16	2.0	35	0.0991	1,730	590	460	2,550	500
240	34	18.47	4.5	29.1	25	2.1	37	0.0754	1,550	700	530	3,240	500
300	34	20.68	4.5	31.3	25	2.2	40	0.0601	1,420	810	600	3,870	500
400	53	23.39	4.5	34.0	25	2.3	43	0.0470	1,290	940	690	4,720	500
500	53	26.67	4.5	37.8	25	2.4	47	0.0366	1,130	1,090	785	5,860	300
630	53	30.22	4.5	41.4	25	2.5	50	0.0283	1,020	1,270	890	7,300	300
800	53	34.00	4.5	45.2	25	2.6	54	0.0221	930	1,460	1,005	9,060	250

8.7/15(17.5) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



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. 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

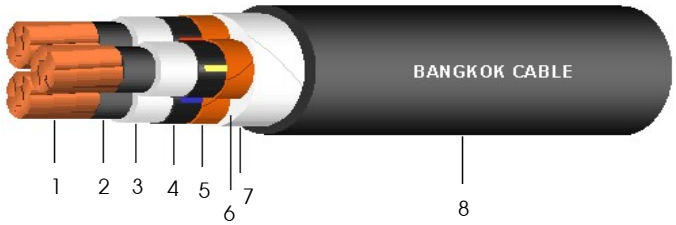
Application

For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

Conductor 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.)
25	0.927	0.654	0.205	0.950
35	0.668	0.629	0.198	0.697
50	0.494	0.601	0.189	0.529
70	0.342	0.585	0.184	0.388
95	0.246	0.566	0.178	0.304
120	0.196	0.548	0.172	0.261
150	0.159	0.541	0.170	0.233
185	0.127	0.530	0.167	0.210
240	0.0972	0.512	0.161	0.188
300	0.0780	0.505	0.159	0.177
400	0.0617	0.495	0.156	0.167
500	0.0489	0.487	0.153	0.161
630	0.0390	0.474	0.149	0.154
800	0.0317	0.466	0.146	0.150

8.7/15(17.5) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



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. 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

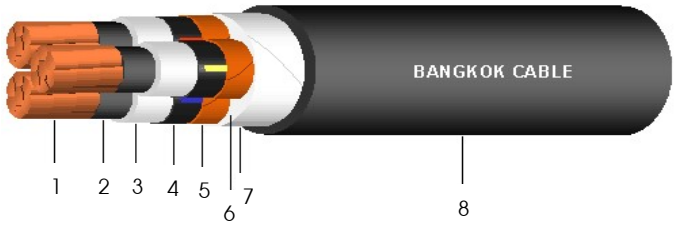
Application

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 sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation 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 (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
25	6	5.90	4.5	16.5	2.4	45	0.727	3,350	145	145	2,320	500
35	6	6.95	4.5	17.6	2.5	48	0.524	3,050	175	175	2,740	500
50	6	8.33	4.5	18.9	2.6	51	0.387	2,730	210	205	3,280	500
70	12	9.73	4.5	20.3	2.7	54	0.268	2,470	265	250	4,050	500
95	15	11.43	4.5	22.0	2.8	58	0.193	2,210	320	300	5,030	300
120	18	12.95	4.5	23.6	2.9	62	0.153	2,020	370	340	5,950	300
150	18	14.27	4.5	24.9	3.0	65	0.124	1,890	420	385	6,920	300
185	30	15.98	4.5	26.6	3.1	69	0.0991	1,730	480	435	8,220	250
240	34	18.47	4.5	29.1	3.3	74	0.0754	1,550	570	505	10,250	200
300	34	20.68	4.5	31.3	3.4	79	0.0601	1,420	655	570	12,300	150
400	53	23.39	4.5	34.0	3.7	86	0.0470	1,290	755	650	15,180	150

8.7/15(17.5) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



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. 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 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.)
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
400	0.0637	0.274	0.0860	0.107