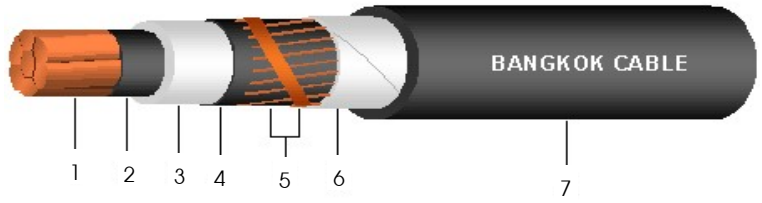
12/20(24) kV CV (CE optional)*

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 : 24 kV
AC test voltage : 42 kV

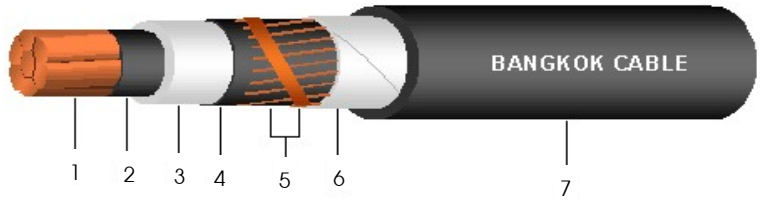
Application

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	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
35	6	6.95	5.5	19.6	10	1.8	27	0.524	3,500	215	180	950	500
50	6	8.33	5.5	20.9	10	1.8	28	0.387	3,140	260	220	1,110	500
70	12	9.73	5.5	22.3	10	1.9	30	0.268	2,850	320	265	1,350	500
95	15	11.43	5.5	24.0	10	1.9	32	0.193	2,570	390	320	1,640	500
120	18	12.95	5.5	25.6	10	2.0	34	0.153	2,360	450	360	1,920	500
150	18	14.27	5.5	26.9	16	2.0	35	0.124	2,210	510	405	2,270	500
185	30	15.98	5.5	28.6	16	2.1	37	0.0991	2,030	590	460	2,670	500
240	34	18.47	5.5	31.1	25	2.2	40	0.0754	1,830	700	530	3,370	500
300	34	20.68	5.5	33.3	25	2.2	42	0.0601	1,680	800	600	3,990	500
400	53	23.39	5.5	36.0	25	2.3	45	0.0470	1,520	935	690	4,850	500
500	53	26.67	5.5	39.8	25	2.4	49	0.0366	1,350	1,090	785	6,000	300
630	53	30.22	5.5	43.4	25	2.5	52	0.0283	1,220	1,270	890	7,450	300
800	53	34.00	5.5	47.2	25	2.7	57	0.0221	1,110	1,450	1,005	9,250	250

12/20(24) 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 : 24 kV
AC test voltage : 42 kV

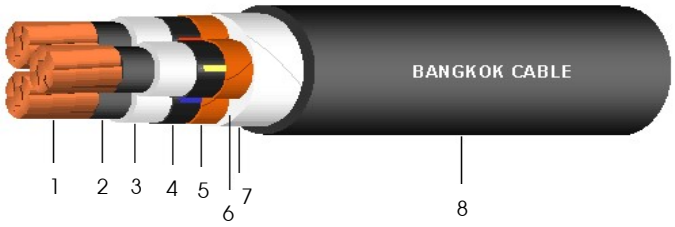
Application

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

Conductor 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	0.645	0.203	0.698
50	0.494	0.616	0.194	0.530
70	0.342	0.599	0.188	0.390
95	0.246	0.579	0.182	0.306
120	0.196	0.567	0.178	0.264
150	0.159	0.553	0.174	0.235
185	0.127	0.541	0.170	0.212
240	0.0972	0.528	0.166	0.192
300	0.0780	0.515	0.162	0.180
400	0.0616	0.504	0.158	0.170
500	0.0489	0.495	0.156	0.163
630	0.0389	0.482	0.151	0.156
800	0.0317	0.477	0.150	0.153

12/20(24) 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 : 24 kV
AC test voltage : 42 kV

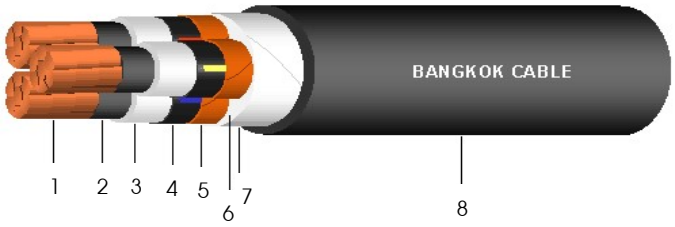
Application

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 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
35	6	6.95	5.5	19.6	2.6	52	0.524	3,500	180	175	3,080	500
50	6	8.33	5.5	20.9	2.7	55	0.387	3,140	215	205	3,640	500
70	12	9.73	5.5	22.3	2.8	59	0.268	2,850	265	250	4,430	500
95	15	11.43	5.5	24.0	2.9	63	0.193	2,570	325	300	5,440	300
120	18	12.95	5.5	25.6	3.0	66	0.153	2,360	370	340	6,370	300
150	18	14.27	5.5	26.9	3.1	69	0.124	2,210	420	385	7,370	300
185	30	15.98	5.5	28.6	3.3	73	0.0991	2,030	485	435	8,720	250
240	34	18.47	5.5	31.1	3.4	79	0.0754	1,830	575	505	10,750	200
300	34	20.68	5.5	33.3	3.6	84	0.0601	1,680	660	570	12,880	150
400	53	23.39	5.5	36.0	3.8	90	0.0470	1,520	760	645	15,760	150

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

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

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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
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Application

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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
400	0.0634	0.285	0.0894	0.110