





BCC
BANGKOK CABLE

PRODUCT CATALOGUE

Electric Wires and Cables

Revision : 04

BCC BANGKOK CABLE

BKD BANGKOK DIELEC CO., LTD.

MOBILE TESTING UNIT

TECHNICAL DATA

- Rated voltage : 135 kV
- Rated current : 96 A
- Frequency range : 30 - 300 Hz
- Load range : 0.03786 - 3.7867 µF

OPERATING CONDITION

- Temperature : -15 - 45 °C
- Humidity : ≤ 90 %
- Testing duration : 1 hour / circuit
- Longest cable length : 17 km for 115 kV CE 800 mm^2

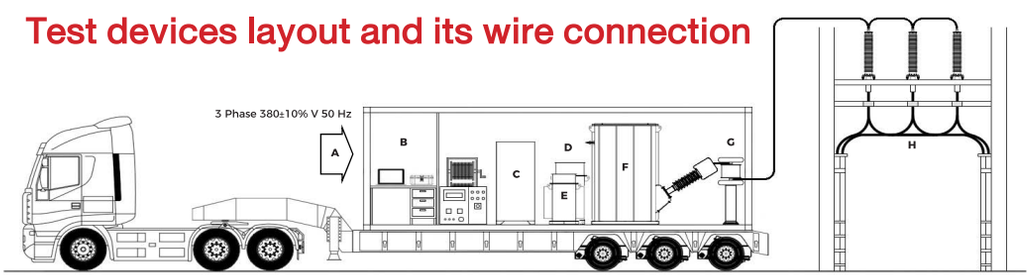


TEST ITEMS

- AC Resonance Test according to IEC 60840
- Cable fault location
- Partial Discharge Test



Test devices layout and its wire connection



A	:	Power source	E	:	Isolation transformer
B	:	Control room	F	:	Variable frequency reactor
C	:	Variable frequency power supply	G	:	Coupling capacitor
D	:	Exiting transformer	H	:	Test object

Size of Mobile Testing Unit : W 2.55 m x L 16.6 m x H 3.85 m

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No Cable No Power

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With more than five decades of sustainable growth, Bangkok Cable has established the reputation and success of being Thailand's leading manufacturer of electric wires and cables.

We are proud to be a wholly Thai-owned company, pioneering the way in this new decade with continuous innovation to develop industry leading solutions that will deliver unrivaled value for our customers. BCC is proud to showcase the best of Thailand's engineering minds and expertise on the global stage.

Since our company's founding in 1964, BCC has grown from strength to strength to best serve the demands of our customers. BCC has expanded from our first factory at Samut Prakarn to build the second factory in Chachoengsao.

Integrated into our values is an unparalleled dedication to excellence with state-of-the-art manufacturing technologies, innovation throughout the manufacturing process and unrivaled product quality. The BCC brand symbolizes the best quality products in Thailand, superior customer service, competitive prices and achieves the highest trust from our customers and partners around the world.

With the emergence of Thailand's 4.0 economy and the growing opportunities through the ASEAN economic community, BCC remains fully committed to invest, develop and create infrastructure resources that will become the center piece of the flow of electricity across the region, ultimately developing the region's economy to transform people's lives for the better.

BANGKOK CABLE CO., LTD.

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Management System

ISO 9001	QMS02093/538
ISO 14001	EMS07007/266
ISO 45001	OHSMS20033/111

ระบบบริหารงานคุณภาพ มอก. 9001 - 2559 (ISO 9001: 2015)

ระบบการจัดการสิ่งแวดล้อม มอก. 14001- 2559 (ISO 14001: 2015)

ระบบการจัดการอาชีวอนามัยและความปลอดภัย มอก. 45001- 2561 (ISO 45001: 2018)

จากสถาบันรับรองมาตรฐานไอเอสโอ (MASCI)

ใช้ไฟฟ้าปลอดภัย ใช้สายไฟฟ้า *บางกอกเคเบิ้ล*

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Electric Wires and Cables



A

TECHNICAL DATA & GENERAL INFORMATION



B

COPPER CONDUCTOR



C

ALUMINIUM CONDUCTOR

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CONVERSION TABLE

Conversion table AWG/MCM(kcmil) to the metric cross-section area

Conductor Cross-section area AWG / MCM (kcmil)		Theoretical Cross-Section area mm^2	Advised Cross-Section area mm^2
AWG	20	0.51	0.5
	18	0.82	1.0
	16	1.31	1.5
	14	2.08	2.5
	12	3.31	4.0
	10	5.27	6.0
	8	8.40	10.0
	6	13.30	16.0
	4	21.20	25.0
	3	26.70	25.0
	2	33.60	35.0
	1	42.40	50.0
	1/0	53.40	50.0
	2/0	67.50	70.0
	3/0	85.00	95.0
	4/0	107.02	120.0
MCM (kcmil)	250	126.70	120.0
	300	152.00	150.0
	350	177.40	185.0
	400	202.70	240.0
	500	253.40	240.0
	600	304.00	300.0
	700	354.70	400.0
	750	380.00	400.0
	800	405.40	400.0
	900	456.00	500.0
	1000	506.70	500.0
	1250	633.40	630.0
	1500	760.10	800.0

Note : The conductor cross-section area is expressed as an AWG (American Wire Gauge) and for large sizes in MCM (a thousand circular mils) or kcmill (kilo- circular mils)

CONVERSION TABLE

Length	mils x 0.0254 = mm (millimeters) inches x 25.4 = mm feet x 0.3048 = m (meters) miles x 1.609344 = km (kilometers)
Area	circular mils x 0.0005067 = mm^2 (square millimeters) sq. in. x 645.16 = mm^2 sq. ft. x 0.092903 = m^2 (square meters) sq. yd. x 0.836127 = m^2 sq. mi. x 2.58999 = km^2 (square kilometers)
Volume	cu. in. x 16.387 = cm^3 (cubic centimeters) cu. ft. x 0.028317 = m^3 (cubic meters) gallons x 4.54609 = l (liters)
Mass	pounds x 0.45359 = kg (kilograms) tons (2000 lbs.) x 0.907185 = t (metric tons)
Mass per unit length	lb/1000 ft x 1.48816 = kg/km (kilograms per kilometer) lb/mi x 0.28185 = kg/km mm^2 x 8.89 = kg/km (for copper) mm^2 x 2.70 = kg/km (for aluminum) mm^2 x 7.83 = kg/km (for steel)
Force or Tension	pounds (force) x 4.448 = N (newtons) mass (kg) x 9.8066 = N (Weight at or near sea level)
Force per unit area (Strees, pressure, tensile strength, etc.)	lbf/in^2 = (psi) x 6.895 = kPa (kiopascals) lbf/in^2 x 0.006895 = MPa (megapascals) N/mm^2 = MPa
Temperature	$^{\circ}F$ to $^{\circ}C$: $^{\circ}C = (^{\circ}F - 32) \times 5 / 9$ $^{\circ}C$ to $^{\circ}F$: $^{\circ}F = (^{\circ}C \times 9 / 5) + 32$

SI Prefixes

Multiplying factor			Prefix	Symbol
1 000 000 000 000	=	10^{12}	tera	T
1 000 000 000	=	10^{9}	giga	G
1 000 000	=	10^{6}	mega	M
1 000	=	10^{3}	kilo	k
100	=	10^{2}	hecto	h
10	=	10^{1}	deca	da
0.1	=	10^{-1}	deci	d
0.01	=	10^{-2}	centi	c
0.001	=	10^{-3}	milli	m
0.000 001	=	10^{-6}	micro	µ
0.000 000 001	=	10^{-9}	nano	n
0.000 000 000 001	=	10^{-12}	pico	p
0.000 000 000 000 001	=	10^{-15}	femto	f
0.000 000 000 000 000 001	=	10^{-18}	atto	a

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PROPERTIES OF INSULATION AND SHEATH MATERIALS

RESISTANCE TO INDUSTRIAL CHEMICALS

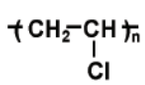
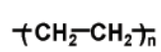
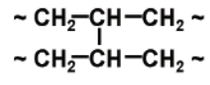
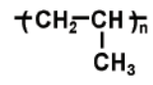
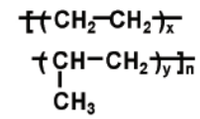
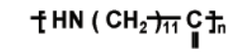
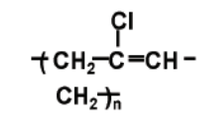
Reagent	Relative Rating							Reagent	Relative Rating						
	PVC	PE	XLPE	NYLON	EPR	BR	CR		PVC	PE	XLPE	NYLON	EPR	BR	CR
Acetone	✕	◎	◎	○	◎	◎	○	Chlorine Gas	✕	✕	✕	◎	✕	△	△
Aniline	○	○	○		○	○	✕	Ozone	○	◎	◎	✕	○	○	○
Ethanol	△	○	○	○	◎	◎	◎	Bromine	✕	✕	✕		✕	✕	✕
Ethyleneglycol	△	◎	◎	○	○	○	◎	Nitric Acid, conc.	✕	△	△	✕	✕	✕	✕
Xylene	✕	○	○	○	✕	✕	✕	Nitric Acid, 10%	○	○	○	△	△	✕	✕
Glycerin	○	◎	◎	○	◎	◎	◎	Fuming Nitric Acid	✕	✕	✕			✕	✕
Cresol	△	○	○	✕	○	○	△	Tap Water	◎	◎	◎	◎	◎	◎	◎
Chloroform	✕	△	△	✕	✕	✕	✕	Sea Water	◎	◎	◎		◎	○	◎
Acetic Acid, conc.	✕	○	○	△	○	○	△	Sulfuric Acid, conc.	△	△	△	✕	✕	✕	✕
Acetic Acid, 10%	△	◎	◎	○	○	○	✕	Sulfuric Acid, 10%	◎	○	○	○	○	○	○
Ethyl Acetate	✕	○	○	○	△	○	✕	Phosphoric Acid	✕	◎	◎	○	○	○	△
Carbon Tetrachloride	✕	✕	✕	△	✕	✕	✕	Sodium Hydroxide, 10%	○	○	○	◎	○	○	○
Cyclohexane		△	△		✕	△	✕	Freon	○	○	○			✕	✕
Dioctyl Phthalate	✕					◎	✕	Formic Acid	○	○	○	◎		△	✕
Trichloroethylene	△	△	△	△	✕	✕	✕	JIS No.1 Oil (OF Oil)	△	○	○		✕	✕	△
Trichlorobenzene		△	△		✕	✕	✕	ASTM NO.1 Oil	△	○	○		△	○	○
Toluene	✕	△	△	○	✕	✕	✕	ASTM NO.2 Oil	△	○	○		△	△	○
Carbon Disulfide	△	○	○		✕	✕	✕	ASTM NO.3 Oil	△	△	△		✕	✕	△
Phenol	✕	○	○	✕	○	○	△	Gasoline	✕	○	○	○	✕	✕	△
Furfural	△	◎	◎		◎	◎	○	Creosote Oil	✕	△	△		✕	△	✕
Hexane	△	○	○		✕	✕	△	JIS No.2 Oil	△	○	○		✕	✕	✕
Benzene	✕	△	△	○	✕	✕	✕	Heavy Oil	△	△	△		✕	✕	✕
Methanol	✕	○	○	△	◎	◎	◎	Lube Oil	△	△	△	○	△	✕	△
Methyl Ethyl Ketone	✕	○	○		△	△	✕	Silicone Oil	○	◎	◎		◎	◎	◎
Dioxane	✕	○	○					Vegetable Oil		◎	◎		○	◎	◎
Nitrobenzene	✕	○	○		○	○	✕	Petroleum Ether	✕	◎	◎			△	△
Formaline	○	○	○	△		○	○	Trans Oil	○	○	○		✕	✕	△
Ammonia, conc.	△	○	○	○	○	○	△	Naphtha	○	○	○	○	✕	✕	✕
Ammonia, 10%	○	○	○	◎	○	○	△	Coal Tar		○	○				
Sodium Chloride	○	◎	◎	◎	○	○	○								
Hydrochloric Acid, conc	△	○	○	✕	○	○	○								
Hydrochloric Acid, 10%	○	◎	◎	○	○	◎	○								

Where : ◎ : High Resistance ○ : Fair Resistance

✕ : Not Applicable △ : Poor Resistance, care on use

PROPERTIES OF INSULATION AND SHEATH MATERIALS

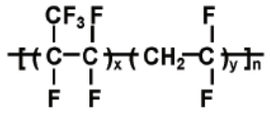
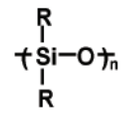
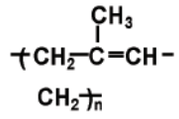
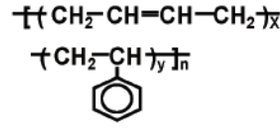
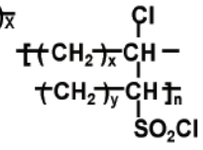
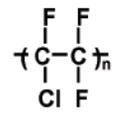
GENERAL COMPARISON DATA

Material		Polyvinyl Chloride	Polyethylene	Cross-linked Polyethylene	Polypropylene	Ethylene Prolylene Copolymer	Polyamide	Polychloroprene
Designation		**PVC**	**PE**	**XLPE**	**PP**	**EPM, EPDM**	**Nylon(12)**	**CR**
Chemical Structure								
Density		1.3-1.5	0.91-0.93	0.91-0.93	0.9-0.915	0.86-0.87	1.01-1.02	1.15-1.23
Hardness (Shore)		D30-90	D45-60		R85-110	40-85	R100-110	20-90
Max.Operating Temp.	°C	70	75	90	80	90	90	80
Emergency Temp. Rating	°C	85	90	130				
Short Circuit Temp. Rating	°C	120	150	250	150		120	
Brittleness Temp.	°C	~-40	<-70	<-70		-40~-60	-70	-30~-50
Softening Temp.	°C	120-140	100-115				170-180	
Thermal Expansion	/ °C	$0.7\text{-}2.5\times10^{-4}$	$1.6\text{-}1.8\times10^{-4}$	$1.6\text{-}1.8\times10^{-4}$	$6.0\text{-}8.5\times10^{-5}$		12×10^{-5}	1.9×10^{-4}
Thermal Conductivity	Cal/cm•sec•°C	$3.0\text{-}4.0\times10^{-4}$	8.0×10^{-4}	8.0×10^{-4}	2.8×10^{-4}		$5.9\text{-}8.3\times10^{-4}$	5.6×10^{-4}
Specific Heat	Cal/ °C•g	0.3-0.5	0.55	0.55	0.46		0.62	0.52
Tensile Strength	kg/mm^2	1.5-2.5	1.5-2.0	1.8-3.0	2.0-4.0	0.5-1.5	5.0-6.0	0.7-3.0
Elongation	%	200-400	300-700	300-700	200-700	300-700	180-285	400-900
Abrasion Resistance		Excellent	Good	Excellent	Excellent	Good	Excellent	Good
Voltage Breakdown	kV/mm	20-30	30-50	30-50	20-32	20-35	20-30	15-25
Volume Resistivity	Ω•cm	$10^{12}\text{-}10^{15}$	$>10^{16}$	$>10^{16}$	$>10^{16}$	$10^{14}\text{-}10^{15}$	$10^{14}\text{-}10^{15}$	$10^{10}\text{-}10^{12}$
Dielectric Constant		5-7	2.2-2.4	2.2-2.4	2.0-2.2	3-5	3.5-4.5	7-10
Dissipation Factor (tanδ)		0.1-0.03	<0.0005	<0.0005	0.0002-0.0006	0.2-0.8	0.03-0.06	1.7-4
Weathering		Good	Inferior*	Inferior*	Inferior*	Excellent	Inferior*	Excellent
Ozone Resistance		Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good
Flame Resistance		Self-Extinguish	Burn	Burn	Burn	Burn	Burn	Self-Extinguish
Track Resistance		Inferior	Excellent	Excellent	Excellent	Excellent	Good	Inferior
Water Resistance		Fair	Excellent	Excellent	Excellent	Good	Excellent	Fair
Acid Resistance		Excellent	Good	Good	Excellent	Excellent	Good	Excellent
Alkaline Resistance		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Oil Resistance		Good	Excellent	Excellent	Excellent	Inferior*	Excellent	Good
Solvent Resistance		Fair	Excellent	Excellent	Excellent	Poor	Good	Fair

* Improved to "good" with mixture of carbon black.

PROPERTIES OF INSULATION AND SHEATH MATERIALS

GENERAL COMPARISON DATA

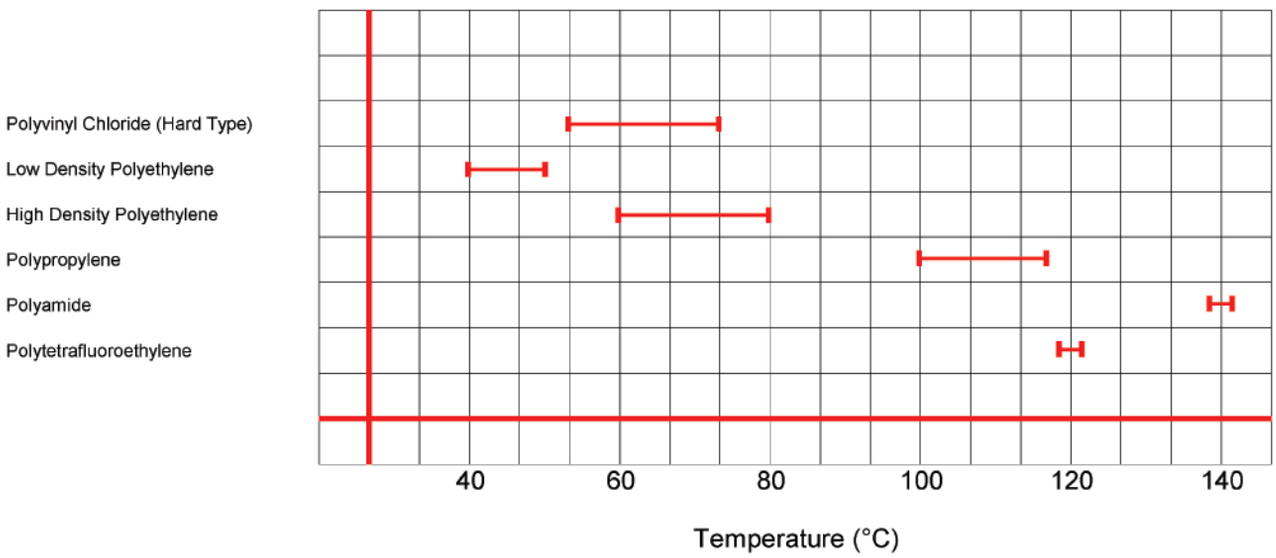
Material		Hexafluoropropylene Vinylidenefluoride Copolymer	Polyorganosiloxane	Polyisoprene	Styrene Butadiene Copolymer	Chlorosulphonated Polyethylene	Polytetra Fluroethylene	Polychloro Trifluoroethylene
Designation		FPM	Q	NR	SBR	CSM	PTFE	PCTFE
Chemical Structure								
Density		1.82-1.85	0.97-1.40	0.93-0.94	0.93-0.94	1.10	2.13-2.2	2.1
Hardness (Shore)		60-90	50-85	30-90	10-95	50-90	D50-65	R110-115
Max.Operating Temp.	°C	200	180	60	75	90	260	180
Emergency Temp. Rating	°C			85				
Short Circuit Temp. Rating	°C			150			310	
Brittleness Temp.	°C	-44~-60	-70~-100	-55~-58	-30~-65	-20~-50	<-70	<-70
Softening Temp.	°C							210
Thermal Expansion	/ °C	1.6×10^{-4}	2.6×10^{-4}	1.8×10^{-4}	1.8×10^{-4}	1.8×10^{-4}	10×10^{-5}	$4.5\text{-}7.0\times10^{-5}$
Thermal Conductivity	Cal/cm•sec•°C	5.5×10^{-4}	5.7×10^{-4}	5.1×10^{-4}	5.8×10^{-4}	6.3×10^{-4}	6×10^{-4}	6×10^{-4}
Specific Heat	Cal/ °C•g			0.52	-		0.25	0.22
Tensile Strength	kg/mm^2	1.5-2.5	0.3-1.0	0.8-3.0	0.4-3.0	0.5-2.0	1.4-2.1	2.8-3.5
Elongation	%	200-600	50-300	300-700	100-700	100-500	200	10-100
Abrasion Resistance		Good	Fair	Good	Good	Good	Excellent	Excellent
Voltage Breakdown	kV/mm	24	20-40	16-32	16-30	16-32	15-30	10-20
Volume Resistivity	Ω•cm	$10^{12}\text{-}10^{14}$	$10^{14}\text{-}10^{15}$	10^{15}	$10^{14}\text{-}10^{15}$	$10^{13}\text{-}10^{14}$	$>10^{18}$	1.2×10^{18}
Dielectric Constant		6-7	3-4	3-5	3-5		2.0	2.24-2.8
Dissipation Factor (tanδ)			0.1-1.0	0.3-0.5	2-5		<0.0002	0.0012-0.0036
Weathering		Good	Good	Poor	Poor	Good	Excellent	Excellent
Ozone Resistance		Good	Excellent	Poor	Inferior	Good	Excellent	Excellent
Flame Resistance		Self-Extinguish	Burn	Burn	Burn	Self-Extinguish	No Burn	No Burn
Track Resistance		Fair	Excellent	Fair	Fair	Good	Excellent	Excellent
Water Resistance		Excellent	Fair	Fair	Fair	Fair	Excellent	Excellent
Acid Resistance		Excellent	Poor	Good	Fair	Good	Excellent	Excellent
Alkaline Resistance		Excellent	Good	Good	Good	Excellent	Excellent	Excellent
Oil Resistance		Excellent	Fair	Poor	Inferior	Fair	Excellent	Excellent
Solvent Resistance		Excellent	Fair	Interior	Inferior	Fair	Excellent	Excellent

* Improved to "good" with mixture of carbon black.

PROPERTIES OF INSULATION AND SHEATH MATERIALS

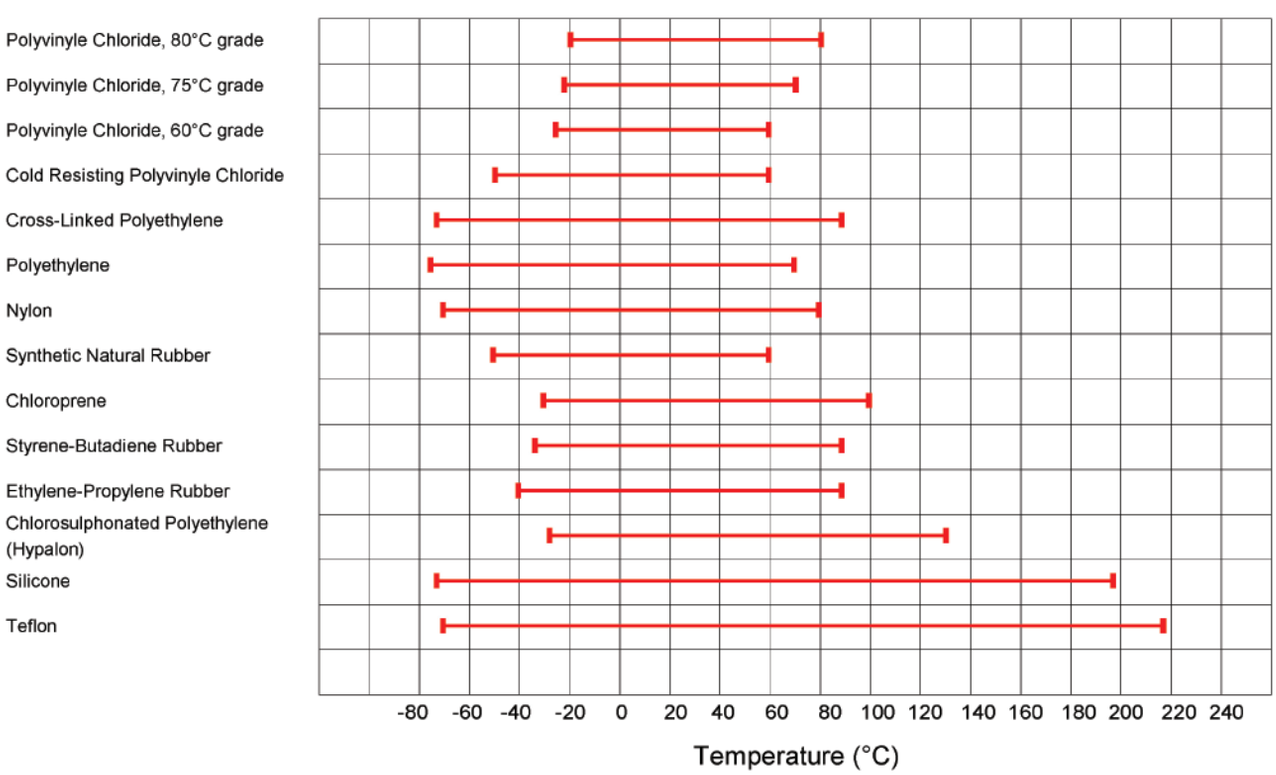
Thermal Properties

Deflection temperature of plastics under load [ASTM D648]



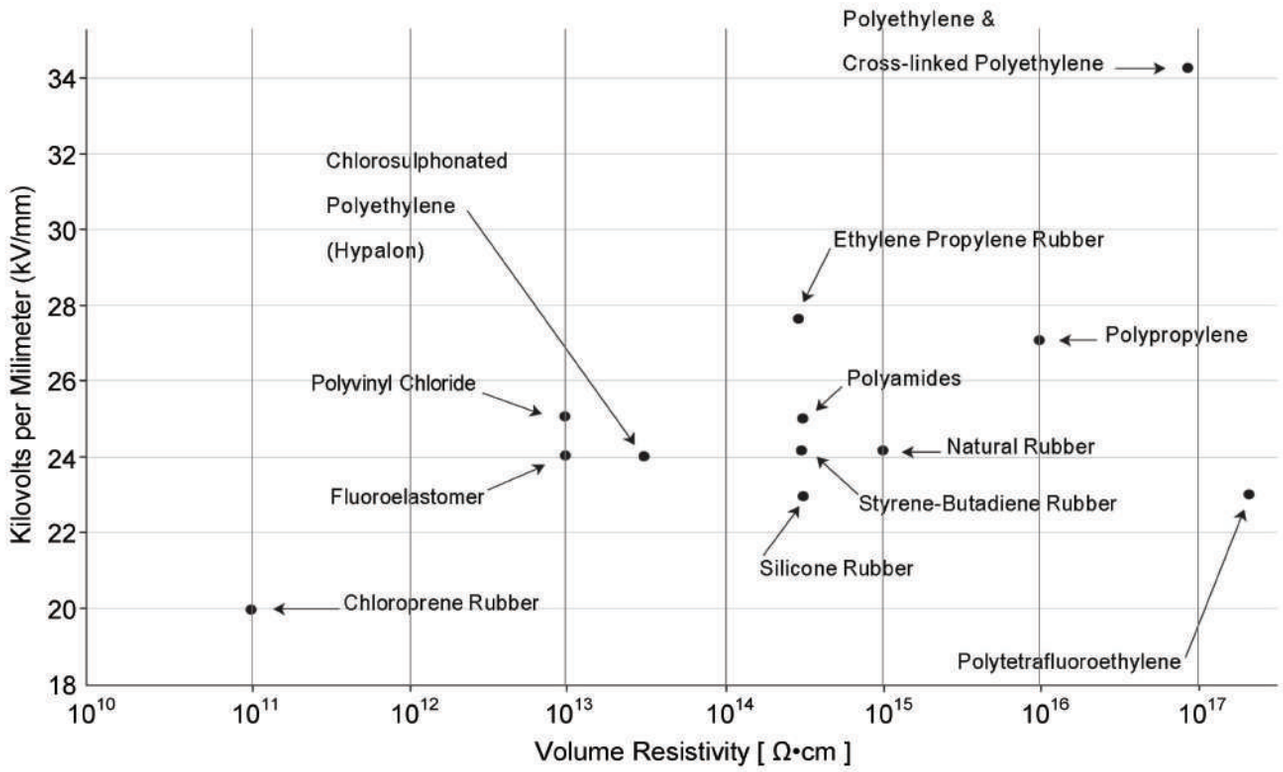
Operating Temperature

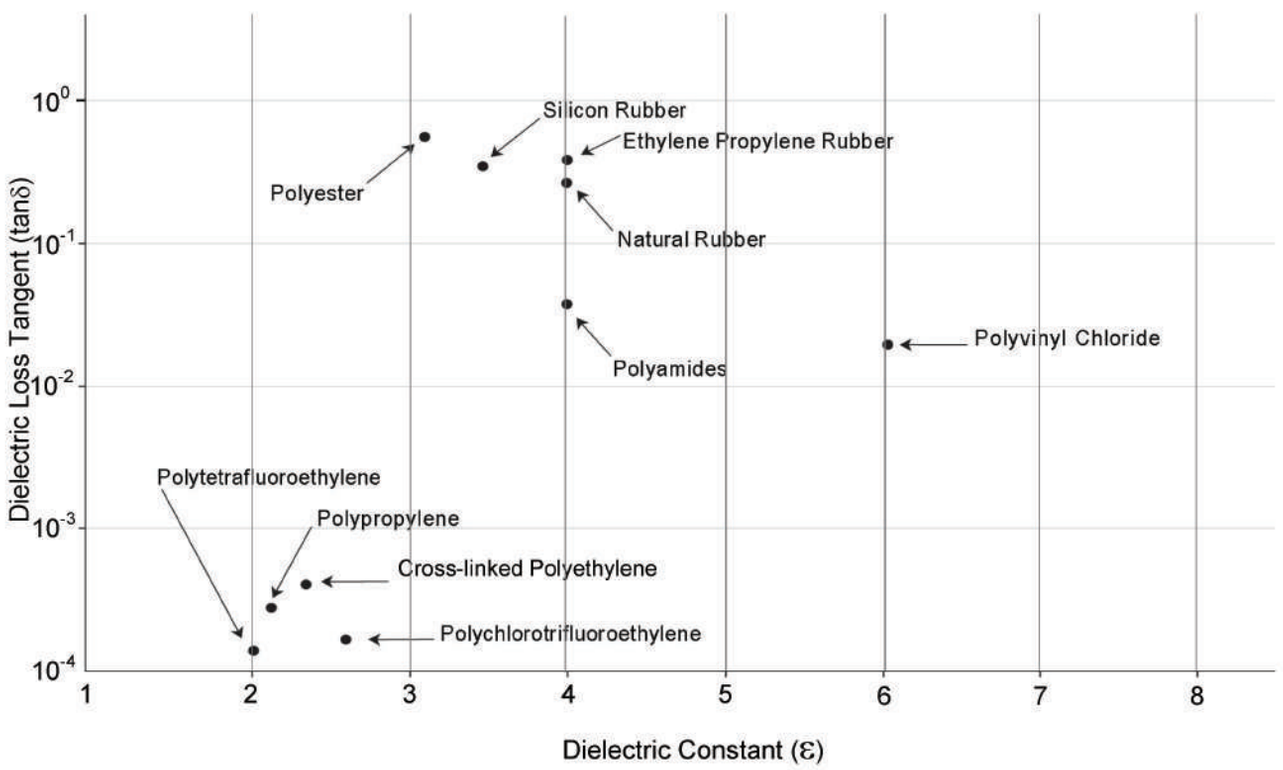
[Max. point : Max. Continuous Operating Temperature
Min. point : Brittleness Temperature]



PROPERTIES OF INSULATION AND SHEATH MATERIALS

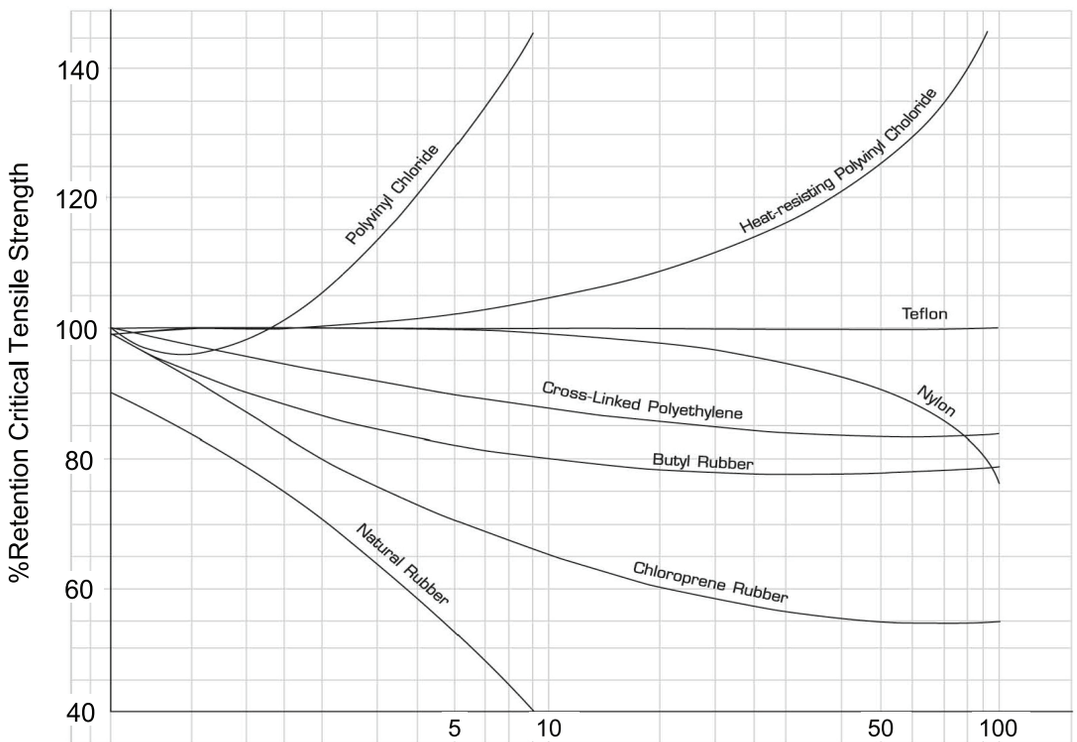
Electrical Properties

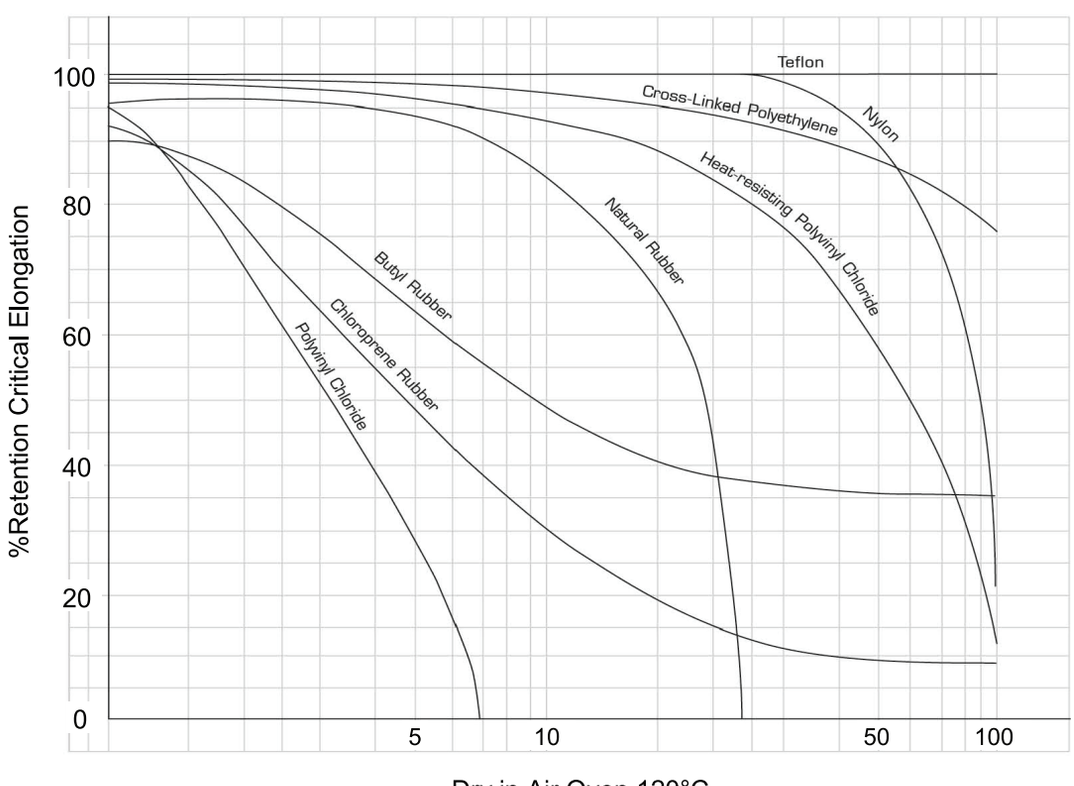




PROPERTIES OF INSULATION AND SHEATH MATERIALS

Long-Time Heat Aging Curves





TEMPERATURE CORRECTION FACTORS FOR CONDUCTOR RESISTANCE

Factors for correcting resistances at various temperatures of conductor to the standard reference temperature of 20°C and reciprocals of the factors for calculating resistances at other temperatures from the value at 20°C

Temperature (°C)	Correction Factor (k)		Reciprocal of Factor (k_1)	
	Copper	Aluminium	Copper	Aluminium
0	1.085	1.088	0.921	0.919
5	1.063	1.064	0.941	0.940
10	1.041	1.042	0.961	0.960
15	1.020	1.021	0.980	0.980
20	1.000	1.000	1.000	1.000
25	0.981	0.980	1.020	1.020
30	0.962	0.961	1.039	1.040
35	0.944	0.943	1.059	1.060
40	0.927	0.925	1.079	1.081
45	0.911	0.908	1.098	1.101
50	0.895	0.892	1.118	1.121
55	0.879	0.876	1.138	1.141
60	0.864	0.861	1.157	1.161
65	0.850	0.846	1.177	1.181
70	0.836	0.832	1.197	1.202
75	0.822	0.819	1.216	1.222
80	0.809	0.805	1.236	1.242
85	0.797	0.792	1.255	1.262
90	0.784	0.780	1.275	1.282

The correction factor is given by :

$$k = \frac{1}{k_1} = \frac{1}{1+\alpha(\theta-20)}$$

Where :

k = temperature correction factor of conductor

k_1 = reciprocal of k

α = constant mass temperature coefficient at 20°C per °C

0.00393 for copper (based on 100% conductivity)

0.00403 for aluminium (based on 61% conductivity)

θ = referred temperature (°C)

AC/DC RESISTANCE RATIOS

The AC/DC resistance ratio of the conductor is given by the following formula.

$$k_2 = 1+\lambda_s+\lambda_p$$

Where : k_2 = AC/DC resistance ration of conductor

λ_s = skin effect factor

λ_p = proximity effect factor

The skin effect factor is given by ;

$$\lambda_s = \frac{X^4}{192 + 0.8X^4}$$

Where : $X = \sqrt{\frac{8\pi f}{R_o k_1 \times 10^4}}$

f = supply frequency (Hz)

R_o = DC resistance of conductor at 20°C (Ω/km)

k_1 = reciprocal factor of temperature correction factor

The proximity effect factor is given by ;

$$\lambda_p = \frac{X'^4}{192+0.8X'^4}\left[\frac{d_1}{S}\right]^2\left\{0.312\left[\frac{d_1}{S}\right]^2 + \frac{1.18}{\frac{X'^4}{192+0.8X'^4} + 0.27}\right\}$$

Where : $X' = \sqrt{0.8X}$

d_1 = diameter of conductor (mm)

S = distance between conductor axes (mm)

CURRENT RATING FACTORS

The continuous current ratings given in this catalog have been calculated in accordance with the IEC 60287 (Electric Cables - Calculations of the current rating) based on the following standard operating conditions :

Ambient air temperature	40°C
Ambient ground temperature	30°C
Thermal resistivity of soil	1.0 K.m/W or °C.m/W
Depth of laying (For MV&HV cable laid direct in the ground)	1 m
Depth of laying (For LV cable laid direct in the ground)	0.6 m

The ratings are also based on the following standard installation conditions :

- In air, protected from solar radiation
- Single core cables laid in flat formation with S = 2d, where S=distance between cable axes, d=cable diameter
- Metallic screen bonded at a single point (for MV&HV cables)

Rating Factors

Where it is desired to depart from the standard condition, the rating correction factors given in the following tables should be applied.

Correction factors for ambient air & ground temperatures

Temperature (°C)	In air (Ambient temperature 40°C)		In ground (Ambient temperature 30°C)	
	Insulation		Insulation	
	PVC	XLPE	PVC	XLPE
11-15	1.34	1.23	1.18	1.12
16-20	1.29	1.19	1.12	1.08
21-25	1.22	1.14	1.07	1.03
26-30	1.15	1.10	1.00	1.00
31-35	1.08	1.05	0.94	0.96
36-40	1.00	1.00	0.87	0.91
41-45	0.91	0.96	0.80	0.86
46-50	0.82	0.90	0.71	0.82
51-55	0.70	0.84	0.62	0.76
56-60	0.57	0.78	0.51	0.70
61-65	-	0.71	-	0.65
66-70	-	0.64	-	0.57
71-75	-	0.55	-	0.49
76-80	-	0.45	-	0.41

CURRENT RATING FACTORS

Correction factors for depths of laying for direct buried MV&HV cables

Depth of laying m	Single-core cables Nominal conductor size		Three-core cables
	≤185 mm^2	>185 mm^2	
0.5	1.06	1.09	1.06
0.6	1.04	1.07	1.05
0.8	1.02	1.03	1.02
1	1.00	1.00	1.00
1.25	0.98	0.98	0.98
1.5	0.97	0.96	0.97
1.75	0.96	0.94	0.96
2	0.95	0.93	0.95
2.5	0.93	0.91	0.93
3	0.92	0.89	0.92

Correction factors for depths of laying for direct buried LV cables

Depth of laying m	Single-core cables Nominal conductor size		Three-core cables
	≤185 mm^2	>185 mm^2	
0.5	1.02	1.02	1.01
0.6	1.00	1.00	1.00
0.8	0.98	0.96	0.97
1	0.96	0.93	0.95
1.25	0.94	0.92	0.93
1.5	0.93	0.90	0.92
1.75	0.92	0.88	0.91
2	0.91	0.87	0.90
2.5	0.89	0.85	0.89
3	0.88	0.83	0.88

CURRENT RATING FACTORS

Correction factors for soil thermal resistivities for direct buried single-core cables

Nominal area of conductor mm^2	Values of soil thermal resistivity K.m/W or °C.m/W							
	0.7	0.8	0.9	1.0	1.5	2.0	2.5	3.0
16	1.12	1.08	1.03	1.00	0.87	0.77	0.71	0.65
25	1.12	1.08	1.03	1.00	0.86	0.77	0.70	0.65
35	1.12	1.08	1.04	1.00	0.86	0.77	0.70	0.65
50	1.14	1.09	1.04	1.00	0.86	0.77	0.70	0.64
70	1.14	1.09	1.04	1.00	0.85	0.76	0.69	0.63
95	1.14	1.08	1.03	1.00	0.85	0.75	0.68	0.63
120	1.14	1.08	1.03	1.00	0.85	0.75	0.68	0.63
150	1.14	1.08	1.04	1.00	0.85	0.75	0.68	0.63
185	1.14	1.09	1.04	1.00	0.85	0.75	0.68	0.63
240	1.15	1.09	1.04	1.00	0.85	0.75	0.68	0.62
300	1.14	1.09	1.04	1.00	0.84	0.74	0.67	0.61
400	1.15	1.09	1.04	1.00	0.84	0.74	0.66	0.61
500	1.15	1.09	1.05	1.00	0.85	0.75	0.68	0.63
630	1.15	1.09	1.05	1.00	0.85	0.75	0.68	0.63
800	1.15	1.09	1.05	1.00	0.85	0.75	0.68	0.62

Correction factors for soil thermal resistivities for direct buried three-core cables

Nominal area of conductor mm^2	Values of soil thermal resistivity K.m/W or °C.m/W							
	0.7	0.8	0.9	1.0	1.5	2.0	2.5	3.0
16	1.09	1.05	1.03	1.00	0.88	0.81	0.74	0.69
25	1.10	1.06	1.03	1.00	0.88	0.81	0.74	0.69
35	1.11	1.07	1.04	1.00	0.88	0.81	0.73	0.69
50	1.10	1.06	1.03	1.00	0.87	0.80	0.73	0.68
70	1.11	1.06	1.04	1.00	0.87	0.79	0.73	0.68
95	1.11	1.07	1.04	1.00	0.87	0.79	0.73	0.68
120	1.11	1.07	1.04	1.00	0.87	0.79	0.73	0.68
150	1.10	1.06	1.03	1.00	0.86	0.78	0.72	0.67
185	1.10	1.07	1.03	1.00	0.86	0.78	0.72	0.67
240	1.11	1.07	1.03	1.00	0.86	0.78	0.72	0.67
300	1.11	1.07	1.03	1.00	0.86	0.78	0.71	0.67
400	1.11	1.07	1.03	1.00	0.86	0.78	0.71	0.66

CURRENT RATING FACTORS

In a single conduit where the conductors are installed, the allowable ampacity of each conductor shall be reduced as shown in the following table.

Number of cores	Multiplier
4-6	0.82
7-9	0.72
10-20	0.56
21-30	0.48
31-40	0.44
Over-40	0.38

Note : For multicore cables, the number of core is counted as number of wire by excepting the ground

SHORT CIRCUIT RATINGS

Another important factor for the determination of the conductor size is the maximum allowable current during a short circuit when the maximum allowable conductor temperature is higher than during normal operation

The maximum permissible short circuit current of cables with copper or aluminium conductors can be calculated with the following formula :

$$I_k = \frac{S}{\sqrt{t}} . K$$

Where : I_k = Maximum permissible short circuit current (Amp.)

S = Cross-section area of conductor (sq.mm)

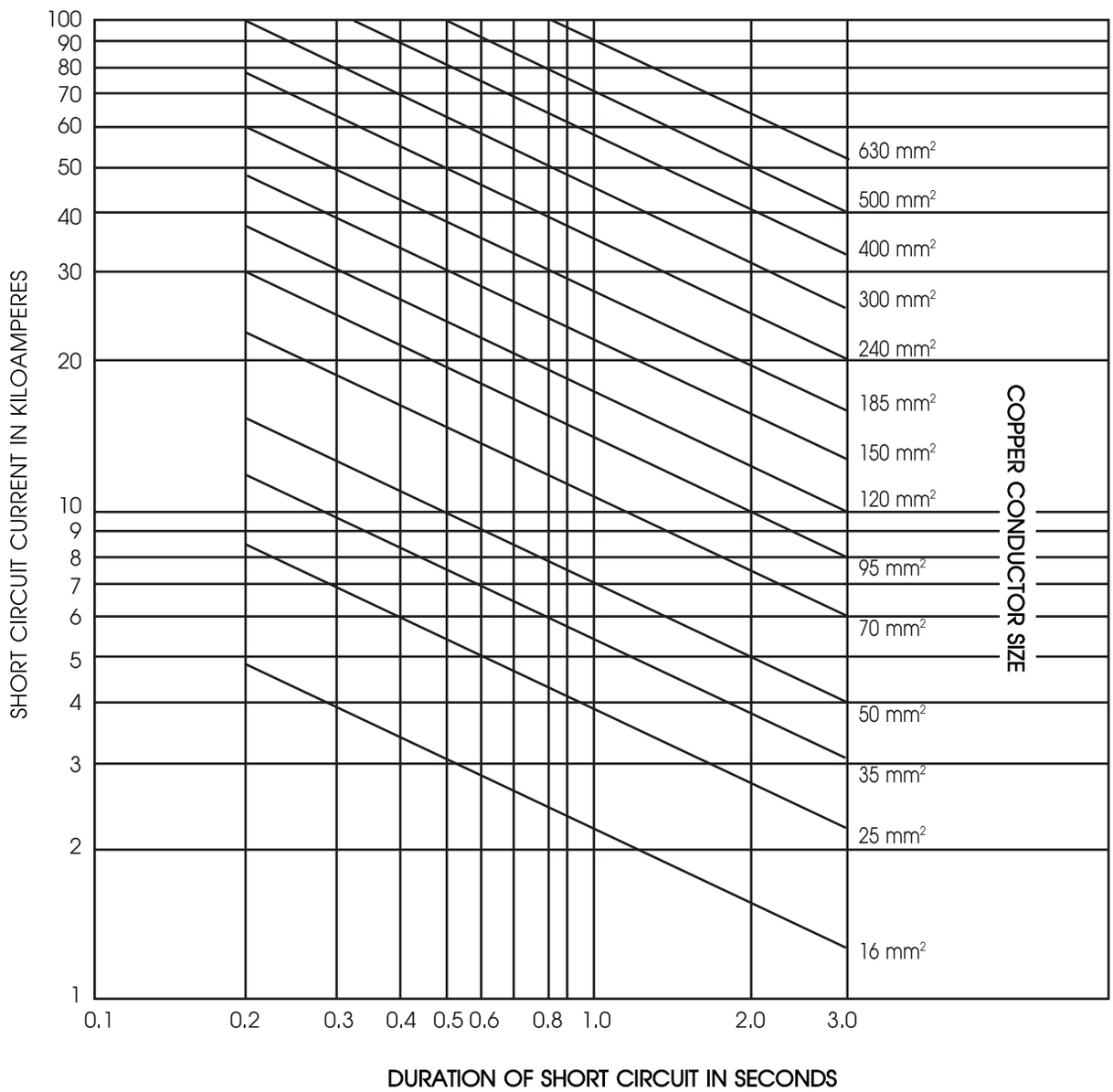
t = Duration of short circuit (sec.)

K = Constant (as follows table below)

Type	Permissible operating temperature (°C)	Permissible short circuit temperature (°C)	K = Constant			
			Conductor temperature 90°C		Conductor temperature 70°C	
			CU	AL	CU	AL
XLPE	90	250	143	94	-	-
PVC						
≤300 mm^2	70	160	-	-	115	76
>300 mm^2	70	140	-	-	103	68

SHORT CIRCUIT RATINGS

The values of fault current given in the graph are based on the cable being fully loaded at the start of the short circuit (conductor temperature 90°C) and a final conductor temperature of 250°C, and it should be ensured that the accessories associated with the cable are also capable of operation at these values of fault current.



PULLING TENSION & BENDING RADIUS

Minimum bending radius (mm)

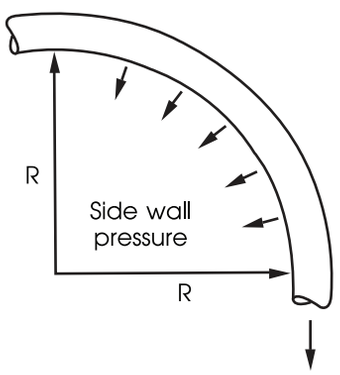
Cable type	Unarmoured		Armoured
	Single-core	Multi-core	
LV	8D	6D	10D
MV & HV	10D	8D	12D

where : D = diameter of cable (mm)

Side wall pressure to cable (kg/m)

Premissable maximum side wall pressure to the cable at bending point during installation is

for LV cable	744 kg/m
for MV&HV cable	1,488 kg/m
for Armoured cable (all voltage)	744 kg/m



$$\text{Side wall pressure to cable} = \frac{\text{Pulling tension (kg)}}{\text{Bending radius (m)}}$$

$$= \frac{T}{R}$$

Premissable maximum pulling tension (kg)

Copper conductor

Pulling tension = 7 x (No.of cores) x (cross-sectional area of conductor : mm^2)

Aluminium conductor

Pulling tension = 4 x (No.of cores) x (cross-sectional area of conductor : mm^2)

SITE STORAGE & HANDLING CABLE

Site Storage

Cables stored outdoors should have the end sealed to prevent moisture ingress into the cable. Cable reels must remain in the upright position. Wooden reels should be stored off the ground to prevent rotting. Reels should be stored on a flat, hard surface so that flanges do not sink into the earth. Timbers or metals supports must be placed under the reel flanges to provide elevated storage of the reels away from the direct contact with water or damp soil.

Handling Cable

1. Inspection of vehicle floor

Nails and any other objects on the vehicle floor shall be got rid of, and the floor shall be kept free from any damages and/or contaminations.

2. Loading operation

The loading shall be made by a crane or a fork-lift truck.

a.) By crane

Shafts and wire-ropes should meet the safety regulations. The shafts shall be used passing through the spindle hole of the drum.

b.) By fork-lift truck

Do not hit the drum by the fork. The drums shall be carried without dragging to the road and shall be landed slowly.

3. Fixing of drums during transportation and/or storage

The chocks shall be placed not on the middle of the lag plate but on the four corners of the drum. Adjacent drums shall be fixed by either chocks and ropes and cushions shall be put between every drums. Do not nail on the flanges.

4. Not to be laid flat

The drums shall not be laid flat.

5. Keep dry

The drums shall be kept dry. Cover with sheets over the drums during outdoor storages.

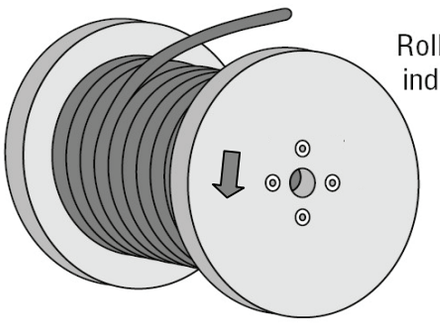
6. Rolling

The drums shall be carried preferably by a vehicle, However when rolling is needed keep the direction which is printed by the arrow on the flanges.

7. Unloading operation

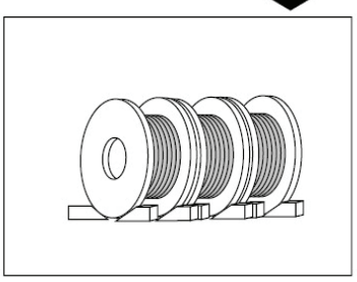
Do not fall down the drums directly to the ground in any case. The drums shall be unloaded by a fork-lift truck, a crane or a wrecker or use either sloping boards and ropes.

Handling Cable

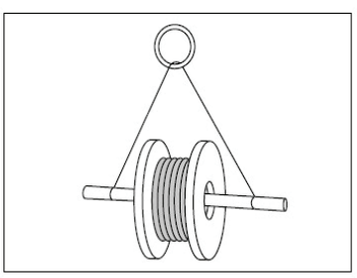


Roll reel in the direction indicated by the arrow.

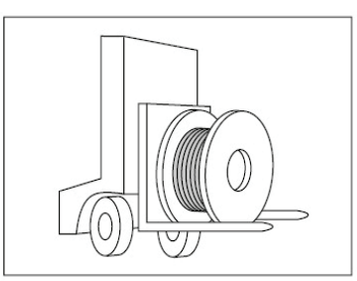
YES



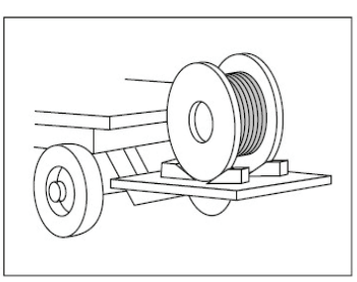
Always load and store reels upright on their flanges and block securely.



Reels can be hoisted with a properly secured shaft extending through both flanges.

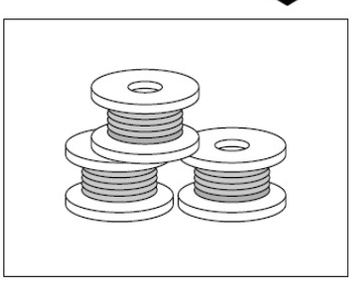


Cradle both reel flanges between fork tines.

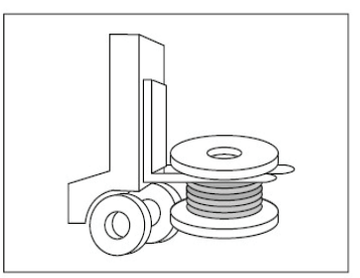


Lower reels from a truck using a hydraulic gate, hoist or fork lift. LOWER CAREFULLY.

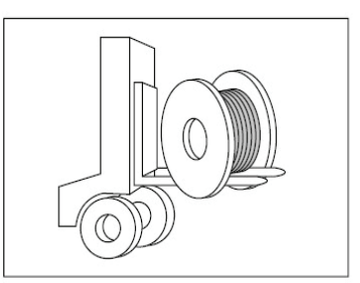
NO



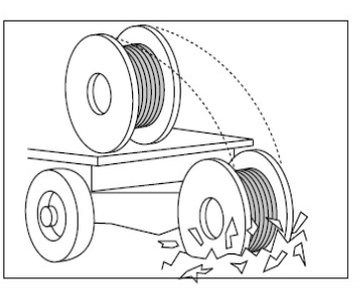
Upended heavy reels will often be damaged.



Do not lift by a single reel flange. Cable or reel may be damaged.



Never allow fork tines to touch the cable surface or reel wrap.



Never drop reels

DESIGN & CONSTRUCTION

Conductor :

The conductor shall consist of plain annealed copper or aluminium wires, circular solid or stranded compacted or non-compacted or flexible.

Insulation :

The insulation layer shall be extruded with PVC or XLPE.

The cores are identified by colored insulation ;

Standard	No.of cores					
	1	2	3	4	5	above
TIS	Not specify	Blue and Brown	Brown, Black and Gray	Blue, Brown, Black and Gray	Blue, Brown, Black, Gray and black	Black with white numbering
Others*	Natural	Red and Black	Red, Yellow and Blue	Red, Yellow, Blue and Black	Black with white numbering	
* Option : Other colors can be provided if specially requested.						

Armour :

The armour shall be a layer of aluminium wires armour (for single core) or galvanized steel wires (for multi cores).

Options : 1. Aluminium tape armour (for single core) can be provided if specially requested.
2. Steel tape armour (for multi cores) can be provided if specially requested.

Sheath :

The sheath layer shall be extruded with PVC or PE.

Options : 1. Low smoke halogen free (LSHF) sheath can be provided if specially requested.
2. Flame retardant to IEC 60332-3 is also available upon request.
3. Anti-termite and/or Anti-vermin property can be added to all sheath if specially requested.
4. Colors of sheath can be provided if specially requested.

Note : Special design & construction to customers specification can be provided upon request.

PART B COPPER CONDUCTOR

SECTION 1 : LOW VOLTAGE POWER CABLES PAGE NO.

TIS 11 Part 3-2553 STANDARD

1. 450/750V 70°C 60227 IEC 01 (THW)
SINGLE-CORE NON-SHEATHED CABLE WITH RIGID CONDUCTOR B 4

2. 450/750 V 70°C 60227 IEC 02
SINGLE-CORE NON-SHEATHED CABLE WITH FLEXIBLE CONDUCTOR B 5

3. 300/500 V 70°C 60227 IEC 05 (IV)
SINGLE-CORE NON-SHEATHED CABLE WITH SOLID CONDUCTOR B 6

4. 300/500 V 70°C 60227 IEC 06 (VSF)
SINGLE-CORE NON-SHEATHED CABLE WITH FLEXIBLE CONDUCTOR B 7

5. 300/500 V 90°C 60227 IEC 07 (HIV)
SINGLE-CORE NON-SHEATHED CABLE WITH SOLID CONDUCTOR B 8

6. 300/500 V 90°C 60227 IEC 08 (HVSF)
SINGLE-CORE NON-SHEATHED CABLE WITH FLEXIBLE CONDUCTOR B 9

TIS 11 Part 4-2553 STANDARD

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PART B COPPER CONDUCTOR

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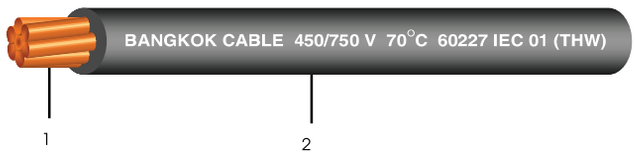
21. 450/750 V 70°C VCT
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450/750 V 70°C 60227 IEC 01 (THW)

SINGLE-CORE NON-SHEATHED CABLE WITH RIGID CONDUCTOR



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Black, Blue, Brown, Grey, Green/Yellow
   or other colours

Standard :

TIS 11 Part 3-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 450/750 V
AC test voltage : 2,500 V

Application

- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Do not install in duct in ground or direct burial in ground

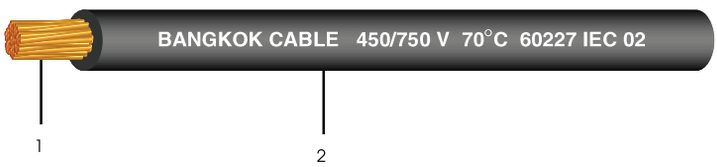
B

Products code	Conductor			Thickness of insulation	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter		Lower limit	Upper limit				
	mm^2	(Min.)	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C6KY013V1012	1.5	1	1.36	0.7	2.6	3.2	0.011	21	19	100/C
C6KY013V4012	1.5	7	1.59	0.7	2.7	3.3	0.010	21	22	100/C
C6KY014V1012	2.5	1	1.75	0.8	3.2	3.9	0.010	29	30	100/C
C6KY014V4012	2.5	7	2.01	0.8	3.3	4.0	0.009	29	34	100/C
C6KY015V1012	4	1	2.21	0.8	3.6	4.4	0.0085	37	45	100/C
C6KY015V2012	4	7	2.55	0.8	3.8	4.6	0.0077	37	50	100/C
C6KY016V1012	6	1	2.70	0.8	4.1	5.0	0.0070	48	70	100/C
C6KY016V2012	6	7	3.12	0.8	4.3	5.2	0.0065	48	72	100/C
C6KY017V1012	10	1	3.50	1.0	5.3	6.4	0.0070	67	116	100/C
C6KY017V2012	10	7	3.98	1.0	5.6	6.7	0.0065	67	120	100/C
C6KY018V2012	16	7	5.01	1.0	6.4	7.8	0.0050	92	172	100/C
C6KY019V2012	25	7	6.33	1.2	8.1	9.7	0.0050	127	275	100/C
C6KY010W2012	35	7	7.60	1.2	9.0	10.9	0.0043	157	379	100/C
C6KY011W2011	50	19	8.83	1.4	10.6	12.8	0.0043	191	502	500/D
C6KY012W2011	70	19	10.58	1.4	12.1	14.6	0.0035	244	693	500/D
C6KY013W2011	95	19	12.50	1.6	14.1	17.1	0.0035	297	963	500/D
C6KY014W2011	120	37	14.07	1.6	15.6	18.8	0.0032	345	1,220	500/D
C6KY015W2011	150	37	15.61	1.8	17.3	20.9	0.0032	397	1,510	500/D
C6KY016W2011	185	37	17.50	2.0	19.3	23.3	0.0032	453	1,880	500/D
C6KY017W2011	240	37	20.07	2.2	22.0	26.6	0.0032	535	2,470	500/D
C6KY018W2011	300	61	22.50	2.4	24.5	29.6	0.0030	617	3,080	500/D
C6KY019W2011	400	61	25.38	2.6	27.5	33.2	0.0028	741	3,930	300/D

C = Packing in coil
D = Packing in drum

450/750 V 70°C 60227 IEC 02

SINGLE-CORE NON-SHEATHED CABLE WITH FLEXIBLE CONDUCTOR



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Black, Blue, Brown, Grey, Green/Yellow
   or other colours

Standard :

TIS 11 Part 3-2553

Classification

Maximum conductor temperature : 70°C

Rated voltage : 450/750 V

AC test voltage : 2,500 V

Application

- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Do not install in duct in ground or direct burial in ground

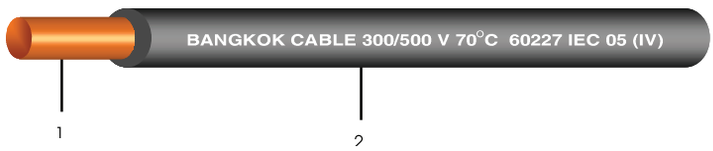
Products code	Conductor			Thickness of insulation	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	Dia. of wires	Diameter		Lower limit	Upper limit				
	mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C6DC013B4012	1.5	0.26	1.58	0.7	2.8	3.4	0.010	16	22	100/C
C6DC01354012	2.5	0.26	2.04	0.8	3.4	4.1	0.009	25	34	100/C
C6DC01374012	4	0.31	2.59	0.8	3.9	4.8	0.007	30	50	100/C
C6DC01384012	6	0.31	3.60	0.8	4.4	5.3	0.006	39	73	100/C
C6DC01394012	10	0.41	4.79	1.0	5.7	6.8	0.0056	51	120	100/C
C6DC01404012	16	0.41	5.88	1.0	6.7	8.1	0.0046	73	180	100/C
C6DC01414012	25	0.41	7.32	1.2	8.4	10.2	0.0044	97	280	100/C
C6DC01424012	35	0.41	8.61	1.2	9.7	11.7	0.0038	140	380	100/C
C6DC01464011	50	0.41	10.55	1.4	11.5	13.9	0.0037	175	550	500/D
C6DC01474011	70	0.51	12.53	1.4	13.2	16.0	0.0032	216	760	500/D
C6DC01484011	95	0.51	14.45	1.6	15.1	18.2	0.0032	258	1,000	500/D
C6DC01514011	120	0.51	16.66	1.6	16.7	20.2	0.0029	302	1,310	500/D
C6DC01524011	150	0.51	18.55	1.8	18.6	22.5	0.0029	347	1,620	500/D
C6DC01534011	185	0.51	20.23	2.0	20.6	24.9	0.0029	394	1,930	500/D
C6DC01544011	240	0.51	23.22	2.2	23.5	28.4	0.0028	471	2,530	500/D

C = Packing in coil

D = Packing in drum

300/500 V 70°C 60227 IEC 05 (IV)

SINGLE-CORE NON-SHEATHED CABLE WITH SOLID CONDUCTOR



Construction

1. Conductor : Solid annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Black, Blue, Brown, Grey, Green/Yellow
   or other colours

Standard :

TIS 11 Part 3-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

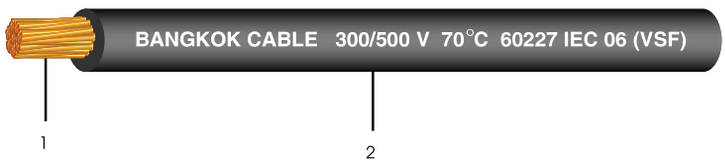
- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Do not install in duct in ground or direct burial in ground

Products code	Conductor			Thickness of insulation	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	No. of wire	Diameter		Lower limit	Upper limit				
	mm^2		mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LA010V1012	0.5	1	0.79	0.6	1.9	2.3	0.015	3	9	100/C
C3LA011V1012	0.75	1	0.96	0.6	2.1	2.5	0.012	6	11	100/C
C3LA012V1012	1	1	1.11	0.6	2.2	2.7	0.011	10	14	100/C

C = Packing in coil

300/500 V 70°C 60227 IEC 06 (VSF)

SINGLE-CORE NON-SHEATHED CABLE WITH FLEXIBLE CONDUCTOR



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)

Black, Blue, Brown, Grey, Green/Yellow or other colours

Standard :

TIS 11 Part 3-2553

Classification

Maximum conductor temperature	: 70°C
Rated voltage	: 300/500 V
AC test voltage	: 2,000 V

Application

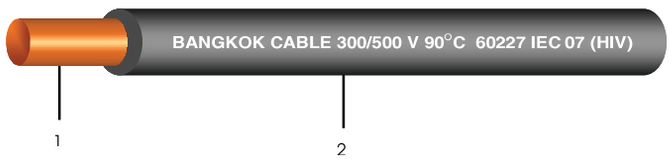
- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Do not install in duct in ground or direct burial in ground

Products code	Conductor			Thickness of insulation	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	Dia. of wires	Diameter		Lower limit	Upper limit				
	mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LB01094012	0.5	0.21	0.92	0.6	2.1	2.5	0.013	3	9	100/C
C3LB01164012	0.75	0.21	1.13	0.6	2.2	2.7	0.011	6	12	100/C
C3LB010N4012	1	0.21	1.31	0.6	2.4	2.8	0.010	10	15	100/C

C = Packing in coil

300/500 V 90°C 60227 IEC 07 (HIV)

SINGLE-CORE NON-SHEATHED CABLE WITH SOLID CONDUCTOR



Construction

1. Conductor : Solid annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Black, Blue, Brown, Grey, Green/Yellow
   or other colours

Standard :

TIS 11 Part 3-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

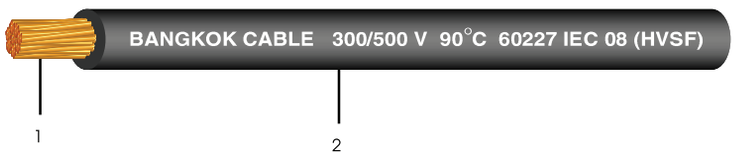
- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Do not install in duct in ground or direct burial in ground

Products code	Conductor			Thickness of insulation	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	No. of wire	Diameter		Lower limit	Upper limit				
	mm^2		mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LC010V1012	0.5	1	0.79	0.6	1.9	2.3	0.015	3	9	100/C
C3LC011V1012	0.75	1	0.96	0.6	2.1	2.5	0.013	6	11	100/C
C3LC012V1012	1	1	1.11	0.6	2.2	2.7	0.012	10	14	100/C
C3LC013V1012	1.5	1	1.36	0.7	2.6	3.2	0.011	16	21	100/C
C3LC014V1012	2.5	1	1.75	0.8	3.2	3.9	0.009	25	33	100/C

C = Packing in coil

300/500 V 90°C 60227 IEC 08 (HVSF)

SINGLE-CORE NON-SHEATHED CABLE WITH FLEXIBLE CONDUCTOR



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)

   Black, Blue, Brown, Grey, Green/Yellow

   or other colours

Standard :

TIS 11 Part 3-2553

Classification

Maximum conductor temperature : 90°C

Rated voltage : 300/500 V

AC test voltage : 2,000 V

Application

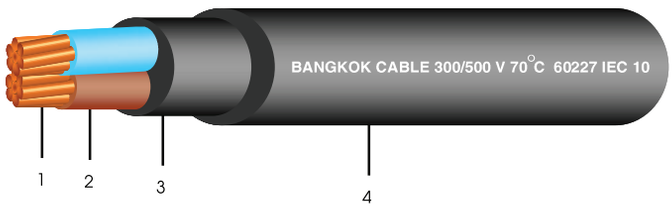
- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Do not install in duct in ground or direct burial in ground

Products code	Conductor			Thickness of insulation	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	Dia. of wires	Diameter		Lower limit	Upper limit				
	mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LD01094012	0.5	0.21	0.92	0.6	2.1	2.5	0.013	3	9	100/C
C3LD01164012	0.75	0.21	1.13	0.6	2.2	2.7	0.012	6	12	100/C
C3LD010N4012	1	0.21	1.31	0.6	2.4	2.8	0.010	10	15	100/C
C3LD013B4012	1.5	0.26	1.58	0.7	2.8	3.4	0.009	16	22	100/C
C3LD01354012	2.5	0.26	2.04	0.8	3.4	4.1	0.009	25	35	100/C

C = Packing in coil

300/500 V 70°C 60227 IEC 10

2 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CABLE



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Inner covering : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 4-2553

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 300/500 V
AC test voltage : 2,000 V

Application

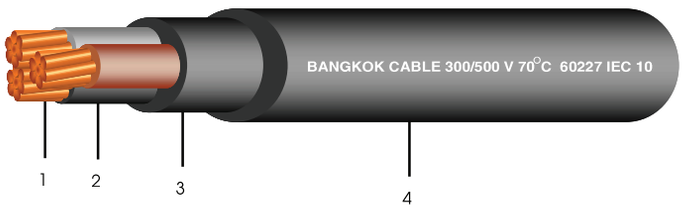
- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Laid on cable trays/Cable ladder
- *Do not install in duct in ground or direct burial in ground*

Products code	No. of core	Conductor			Thickness of insulation	Thickness of inner covering	Thickness of outer sheath	Overall diameter		Insulation resistance at 70°C	Current rating Laid on cable ladder	Cable weight	Standard length
		Cross-sectional area	No. of wires	Diameter				Lower limit	Upper limit				
		mm^2	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LE023V1012	2	1.5	1	1.36	0.7	0.4	1.2	7.6	10.0	0.011	16	120	100/C
C3LE023V4012	2	1.5	7	1.59	0.7	0.4	1.2	7.8	10.5	0.010	16	130	100/C
C3LE024V1012	2	2.5	1	1.75	0.8	0.4	1.2	8.6	11.5	0.010	22	165	100/C
C3LE024V4012	2	2.5	7	2.01	0.8	0.4	1.2	9.0	12.0	0.009	22	170	100/C
C3LE025V1012	2	4	1	2.21	0.8	0.4	1.2	9.6	12.5	0.0085	30	207	100/C
C3LE025V2012	2	4	7	2.55	0.8	0.4	1.2	10.0	13.0	0.0077	30	220	100/C
C3LE026V1012	2	6	1	2.70	0.8	0.4	1.2	10.5	13.5	0.0070	37	260	100/C
C3LE026V2012	2	6	7	3.12	0.8	0.4	1.2	11.0	14.0	0.0065	37	321	100/C
C3LE027V1012	2	10	1	3.50	1.0	0.6	1.4	13.0	16.5	0.0070	52	430	100/C
C3LE027V2012	2	10	7	3.98	1.0	0.6	1.4	13.5	17.5	0.0065	52	470	100/C
C3LE028V2011	2	16	7	5.01	1.0	0.6	1.4	15.5	20.0	0.0052	70	650	500/D
C3LE029V2011	2	25	7	6.33	1.2	0.8	1.4	18.5	24.0	0.0050	88	980	500/D
C3LE020W2011	2	35	7	7.60	1.2	1.0	1.6	21.0	27.5	0.0044	110	1,310	500/D

C = Packing in coil
D = Packing in drum

300/500 V 70°C 60227 IEC 10

3 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CABLE



Construction

1. Conductor	:	Solid or circular stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC)
Colour code	:	Brown, Black, Grey
3. Inner covering	:	Polyvinyl chloride (PVC), Black colour
4. Outer sheath	:	Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 4-2553

Classification

Maximum conductor temperature	:	70°C
Rated Voltage	:	300/500 V
AC test voltage	:	2,000 V

Application

- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Laid on cable trays/Cable ladder
- ***Do not install in duct in ground or direct burial in ground***

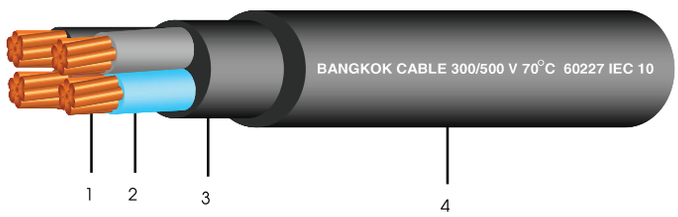
Products code	No. of core	Conductor			Thickness of insulation	Thickness of inner covering	Thickness of outer sheath	Overall diameter		Insulation resistance at 70°C	Current rating Laid on cable ladder	Cable weight	Standard length
		Cross-sectional area	No. of wires	Diameter				Lower limit	Upper limit				
		mm^2	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LE033V1012	3	1.5	1	1.36	0.7	0.4	1.2	8.0	10.5	0.011	16	143	100/C
C3LE033V4012	3	1.5	7	1.59	0.7	0.4	1.2	8.2	11.0	0.010	16	150	100/C
C3LE034V1012	3	2.5	1	1.75	0.8	0.4	1.2	9.2	12.0	0.010	22	200	100/C
C3LE034V4012	3	2.5	7	2.01	0.8	0.4	1.2	9.4	12.5	0.009	22	210	100/C
C3LE035V1012	3	4	1	2.21	0.8	0.4	1.2	10.0	13.0	0.0085	30	255	100/C
C3LE035V2012	3	4	7	2.55	0.8	0.4	1.2	10.5	13.5	0.0077	30	270	100/C
C3LE036V1012	3	6	1	2.70	0.8	0.4	1.4	11.5	14.5	0.0070	37	340	100/C
C3LE036V2012	3	6	7	3.12	0.8	0.4	1.4	12.0	15.5	0.0065	37	401	100/C
C3LE037V1012	3	10	1	3.50	1.0	0.6	1.4	14.0	17.5	0.0070	52	540	100/C
C3LE037V2011	3	10	7	3.98	1.0	0.6	1.4	14.5	19.0	0.0065	52	580	500/D
C3LE038V2011	3	16	7	5.01	1.0	0.8	1.4	16.5	21.5	0.0052	70	840	500/D
C3LE039V2011	3	25	7	6.33	1.2	0.8	1.6	20.5	26.0	0.0050	88	1,270	500/D
C3LE030W2011	3	35	7	7.60	1.2	1.0	1.6	22.0	29.0	0.0044	110	1,680	500/D

C = Packing in coil

D = Packing in drum

300/500 V 70°C 60227 IEC 10

4 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CABLE



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown, Black, Grey
3. Inner covering : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 4-2553

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 300/500 V
AC test voltage : 2,000 V

Application

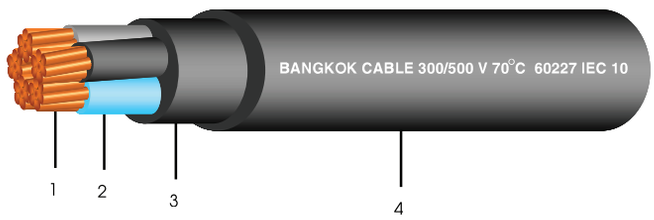
- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Laid on cable trays/Cable ladder
- *Do not install in duct in ground or direct burial in ground*

Products code	No. of core	Conductor			Thickness of insulation	Thickness of inner covering	Thickness of outer sheath	Overall diameter		Insulation resistance at 70°C	Current rating Laid on cable ladder	Cable weight	Standard length
		Cross-sectional area	No. of wires	Diameter				Lower limit	Upper limit				
		mm^2	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LE043V1012	4	1.5	1	1.36	0.7	0.4	1.2	8.6	11.5	0.011	16	170	100/C
C3LE043V4012	4	1.5	7	1.59	0.7	0.4	1.2	9.0	12.0	0.010	16	180	100/C
C3LE044V1012	4	2.5	1	1.75	0.8	0.4	1.2	10.0	13.0	0.010	22	237	100/C
C3LE044V4012	4	2.5	7	2.01	0.8	0.4	1.2	10.0	13.5	0.009	22	250	100/C
C3LE045V1012	4	4	1	2.21	0.8	0.4	1.4	11.5	14.5	0.0085	30	321	100/C
C3LE045V2012	4	4	7	2.55	0.8	0.4	1.4	12.0	15.0	0.0077	30	350	100/C
C3LE046V1012	4	6	1	2.70	0.8	0.6	1.4	12.5	16.0	0.0070	37	440	100/C
C3LE046V2012	4	6	7	3.12	0.8	0.6	1.4	13.0	17.0	0.0065	37	480	100/C
C3LE047V1011	4	10	1	3.50	1.0	0.6	1.4	15.5	19.0	0.0070	52	670	500/D
C3LE047V2011	4	10	7	3.98	1.0	0.6	1.4	16.0	20.5	0.0065	52	730	500/D
C3LE048V2011	4	16	7	5.01	1.0	0.8	1.4	18.0	23.5	0.0052	70	1,060	500/D
C3LE049V2011	4	25	7	6.33	1.2	1.0	1.6	22.5	28.5	0.0050	88	1,640	500/D
C3LE040W2011	4	35	7	7.60	1.2	1.0	1.6	24.5	32.0	0.0044	110	2,130	500/D

C = Packing in coil
D = Packing in drum

300/500 V 70°C 60227 IEC 10

5 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CABLE



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown, Black, Grey, Black
3. Inner covering : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

TIS 11 Part 4-2553

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 300/500 V
AC test voltage : 2,000 V

Application

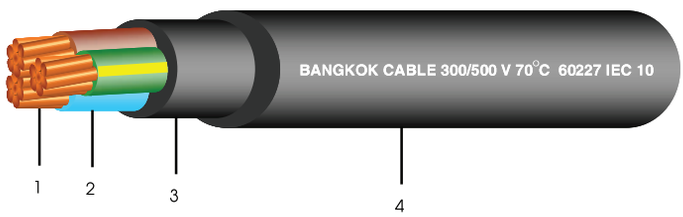
- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Laid on cable trays/Cable ladder
- *Do not install in duct in ground or direct burial in ground*

Products code	No. of core	Conductor			Thickness of insulation	Thickness of inner covering	Thickness of outer sheath	Overall diameter		Insulation resistance at 70°C	Current rating Laid on cable ladder	Cable weight	Standard length
		Cross-sectional area	No. of wires	Diameter				Lower limit	Upper limit				
		mm^2	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LE053V1012	5	1.5	1	1.36	0.7	0.4	1.2	9.4	12.0	0.011	16	210	100/C
C3LE053V4012	5	1.5	7	1.59	0.7	0.4	1.2	9.8	12.5	0.010	16	220	100/C
C3LE054V1012	5	2.5	1	1.75	0.8	0.4	1.2	11.0	14.0	0.010	22	290	100/C
C3LE054V4012	5	2.5	7	2.01	0.8	0.4	1.2	11.0	14.5	0.009	22	310	100/C
C3LE055V1012	5	4	1	2.21	0.8	0.6	1.4	12.5	16.0	0.0085	30	420	100/C
C3LE055V2012	5	4	7	2.55	0.8	0.6	1.4	13.0	17.0	0.0077	30	450	100/C
C3LE056V1012	5	6	1	2.70	0.8	0.6	1.4	13.5	17.5	0.0070	37	550	100/C
C3LE056V2012	5	6	7	3.12	0.8	0.6	1.4	14.5	18.5	0.0065	37	600	100/C
C3LE057V1011	5	10	1	3.50	1.0	0.6	1.4	17.0	21.0	0.0070	52	850	500/D
C3LE057V2011	5	10	7	3.98	1.0	0.6	1.4	17.5	22.0	0.0065	52	920	500/D
C3LE058V2011	5	16	7	5.01	1.0	0.8	1.6	20.5	26.0	0.0052	70	1,350	500/D
C3LE059V2011	5	25	7	6.33	1.2	1.0	1.6	24.5	31.5	0.0050	88	2,050	500/D
C3LE050W2011	5	35	7	7.60	1.2	1.2	1.6	27.0	35.0	0.0044	110	2,710	500/D

C = Packing in coil
D = Packing in drum

300/500 V 70°C 60227 IEC 10

2 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CABLE WITH GROUND



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown
   Ground - Green/Yellow
3. Inner covering : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 4-2553

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 300/500 V
AC test voltage : 2,000 V

Application

- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Laid on cable trays/Cable ladder
- *Do not install in duct in ground or direct burial in ground*

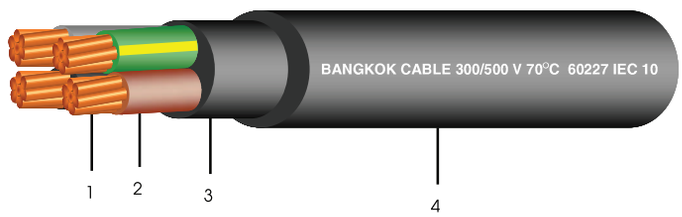
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Products code	No. of core	Conductor				Thickness of insulation	Thickness of inner covering	Thickness of outer sheath	Overall diameter		Insulation resistance at 70°C	Current rating Laid on cable ladder	Cable weight	Standard length
		Cross-sectional area mm²		No. of wires (Min.)	Diameter mm (Approx.)	mm	mm (Approx.)	mm	Lower limit mm	Upper limit mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground											
C3LE022X1012	2	1.5	1.5	1	1.36	0.7	0.4	1.2	8.0	10.5	0.011	16	140	100/C
C3LE022X4012	2	1.5	1.5	7	1.59	0.7	0.4	1.2	8.2	11.0	0.010	16	150	100/C
C3LE023X1012	2	2.5	2.5	1	1.75	0.8	0.4	1.2	9.2	12.0	0.010	22	190	100/C
C3LE023X4012	2	2.5	2.5	7	2.01	0.8	0.4	1.2	9.4	12.5	0.009	22	210	100/C
C3LE024X1012	2	4	4	1	2.21	0.8	0.4	1.2	10.0	13.0	0.0085	30	250	100/C
C3LE024X2012	2	4	4	7	2.55	0.8	0.4	1.2	10.5	13.5	0.0077	30	270	100/C
C3LE025X1012	2	6	6	1	2.70	0.8	0.4	1.4	11.5	14.5	0.0070	37	340	100/C
C3LE025X2012	2	6	6	7	3.12	0.8	0.4	1.4	12.0	15.5	0.0065	37	370	100/C
C3LE026X1012	2	10	10	1	3.50	1.0	0.6	1.4	14.0	17.5	0.0070	52	540	100/C
C3LE026X2011	2	10	10	7	3.98	1.0	0.6	1.4	14.5	19.0	0.0065	52	590	500/D
C3LE027X2011	2	16	16	7	5.01	1.0	0.8	1.4	16.5	21.5	0.0052	70	840	500/D
C3LE025Z2011	2	25	25	7	6.33	1.2	0.8	1.6	20.5	26.0	0.0050	88	1,270	500/D
C3LE026Z2011	2	35	35	7	7.60	1.2	1.0	1.6	22.0	29.0	0.0044	110	1,680	500/D

C = Packing in coil
D = Packing in drum

300/500 V 70°C 60227 IEC 10

3 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CABLE WITH GROUND



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Brown, Black, Grey
   Ground - Green/Yellow
3. Inner covering : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 4-2553

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 300/500 V
AC test voltage : 2,000 V

Application

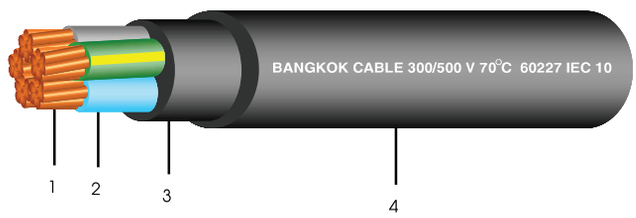
- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Laid on cable trays/Cable ladder
- *Do not install in duct in ground or direct burial in ground*

Products code	No. of core	Conductor				Thickness of insulation	Thickness of inner covering	Thickness of outer sheath	Overall diameter		Insulation resistance at 70°C	Current rating Laid on cable ladder	Cable weight	Standard length
		Cross-sectional area mm²		No. of wires	Diameter				Lower limit	Upper limit				
		Phase	Ground	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LE032X1012	3	1.5	1.5	1	1.36	0.7	0.4	1.2	8.6	11.5	0.011	16	170	100/C
C3LE032X4012	3	1.5	1.5	7	1.59	0.7	0.4	1.2	9.0	12.0	0.010	16	180	100/C
C3LE033X1012	3	2.5	2.5	1	1.75	0.8	0.4	1.2	10.0	13.0	0.010	22	240	100/C
C3LE033X4012	3	2.5	2.5	7	2.01	0.8	0.4	1.2	10.0	13.5	0.009	22	250	100/C
C3LE034X1012	3	4	4	1	2.21	0.8	0.4	1.4	11.5	14.5	0.0085	30	330	100/C
C3LE034X2012	3	4	4	7	2.55	0.8	0.4	1.4	12.0	15.0	0.0077	30	350	100/C
C3LE035X1012	3	6	6	1	2.70	0.8	0.6	1.4	12.5	16.0	0.0070	37	440	100/C
C3LE035X2012	3	6	6	7	3.12	0.8	0.6	1.4	13.0	17.0	0.0065	37	480	100/C
C3LE036X1011	3	10	10	1	3.50	1.0	0.6	1.4	15.5	19.0	0.0070	52	670	500/D
C3LE036X2011	3	10	10	7	3.98	1.0	0.6	1.4	16.0	20.5	0.0065	52	740	500/D
C3LE037X2011	3	16	16	7	5.01	1.0	0.8	1.4	18.0	23.5	0.0052	70	1,060	500/D
C3LE035Z2011	3	25	25	7	6.33	1.2	1.0	1.6	22.5	28.5	0.0050	88	1,640	500/D
C3LE036Z2011	3	35	35	7	7.60	1.2	1.0	1.6	24.5	32.0	0.0044	110	2,130	500/D

C = Packing in coil
D = Packing in drum

300/500 V 70°C 60227 IEC 10

4 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CABLE WITH GROUND



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - LBlue, Brown, Black, Grey
   Ground - Green/Yellow
3. Inner covering : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 4-2553

Classification

Maximum conductor temperature	: 70°C
Rated Voltage	: 300/500 V
AC test voltage	: 2,000 V

Application

- Use for general purpose
- For installation in raceway and shall be protected water into raceway
- Laid on cable trays/Cable ladder
- *Do not install in duct in ground or direct burial in ground*

Products code	No. of core	Conductor				Thickness of insulation	Thickness of inner covering	Thickness of outer sheath	Overall diameter		Insulation resistance at 70°C	Current rating Laid on cable ladder	Cable weight	Standard length
		Cross-sectional area		No. of wires	Diameter				Lower limit	Upper limit				
		mm^2			mm	mm	mm	mm	mm	mm	MΩ.km	A	kg/km	m
		Phase	Ground	(Min.)	(Approx.)		(Approx.)				(Min.)		(Approx.)	
C3LE042X1012	4	1.5	1.5	1	1.36	0.7	0.4	1.2	9.4	12.0	0.011	16	210	100/C
C3LE042X4012	4	1.5	1.5	7	1.59	0.7	0.4	1.2	9.8	12.5	0.010	16	220	100/C
C3LE043X1012	4	2.5	2.5	1	1.75	0.8	0.4	1.2	11.0	14.0	0.010	22	290	100/C
C3LE043X4012	4	2.5	2.5	7	2.01	0.8	0.4	1.2	11.0	14.5	0.009	22	310	100/C
C3LE044X1012	4	4	4	1	2.21	0.8	0.6	1.4	12.5	16.0	0.0085	30	420	100/C
C3LE044X2012	4	4	4	7	2.55	0.8	0.6	1.4	13.0	17.0	0.0077	30	450	100/C
C3LE045X1012	4	6	6	1	2.70	0.8	0.6	1.4	13.5	17.5	0.0070	37	550	100/C
C3LE045X2012	4	6	6	7	3.12	0.8	0.6	1.4	14.5	18.5	0.0065	37	600	100/C
C3LE046X1011	4	10	10	1	3.50	1.0	0.6	1.4	17.0	21.0	0.0070	52	850	500/D
C3LE046X2011	4	10	10	7	3.98	1.0	0.6	1.4	17.5	22.0	0.0065	52	920	500/D
C3LE047X2011	4	16	16	7	5.01	1.0	0.8	1.6	20.5	26.0	0.0052	70	1,350	500/D
C3LE045Z2011	4	25	25	7	6.33	1.2	1.0	1.6	24.5	31.5	0.0050	88	2,050	500/D
C3LE046Z2011	4	35	35	7	7.60	1.2	1.2	1.6	27.0	35.0	0.0044	110	2,710	500/D

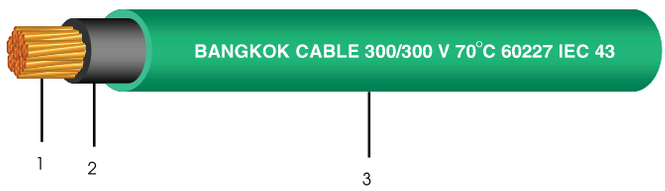
C = Packing in coil

D = Packing in drum

Revision : 04, May 2021

300/300 V 70°C 60227 IEC 43

SINGLE-CORE CORD FOR INDOOR DECORATIVE LIGHTING CHAINS



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation (inner layer) : Polyvinyl chloride (PVC), Black or other colour
3. Insulation (outer layer) : Polyvinyl chloride (PVC), Green colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C

Rated voltage : 300/300 V

AC test voltage : 2,000 V

Application

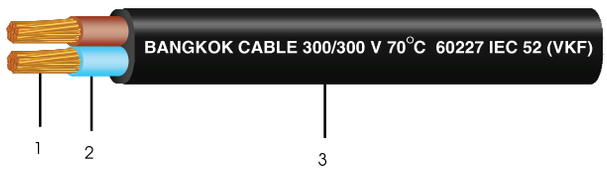
- Use for connecting indoor decorate lighting

Products code	No. of core	Conductor			Thickness of each layer of insulation	Overall insulation thickness		Overall diameter		Insulation resistance at 70°C	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter				Lower limit	Upper limit			
		mm^2	mm (Max.)	mm (Approx.)	mm (Min.)	mm (Min.)	mm (Avg.)	mm	mm	MΩ.km (Min.)	kg/km (Approx.)	m
C2LF01094042	1	0.5	0.21	0.92	0.2	0.6	0.7	2.3	2.7	0.014	11	100/C
C2LF01164042	1	0.75	0.21	1.13	0.2	0.6	0.7	2.4	2.9	0.012	14	100/C

C = Packing in coil

300/300 V 70°C 60227 IEC 52 (VKF)

2 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CORD



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/300 V
AC test voltage : 2,000 V

Application

- Use for connecting portable electric appliance
- Use for wiring within electric appliance

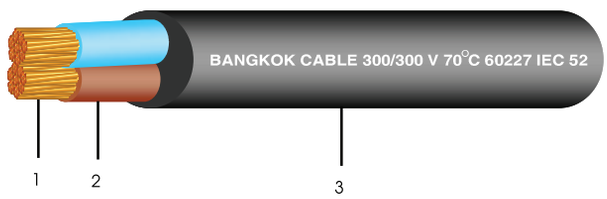
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Products code	No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C2LQ02094012	2	0.5	0.21	0.92	0.5	0.6	3.0 x 4.9	3.7 x 5.9	0.012	3	33	100/C
C2LQ02164012	2	0.75	0.21	1.13	0.5	0.6	3.2 x 5.2	3.8 x 6.3	0.010	6	37	100/C

C = Packing in coil

300/300 V 70°C 60227 IEC 52

2 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CORD



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/300 V
AC test voltage : 2,000 V

Application

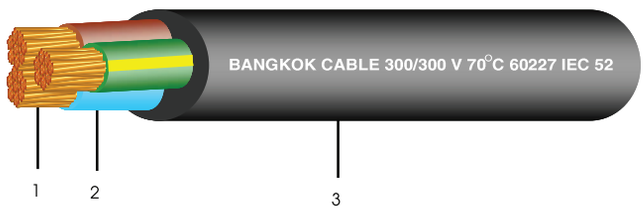
- Use for connecting portable electric appliance
- Use for wiring within electric appliance

Products code	No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C2LG02094012	2	0.5	0.21	0.92	0.5	0.6	4.6	5.9	0.012	3	41	100/C
C2LG02164012	2	0.75	0.21	1.13	0.5	0.6	4.9	6.3	0.010	6	50	100/C

C = Packing in coil

300/300 V 70°C 60227 IEC 52

2 CORES - LIGHT POLYVINYL CHLORIDE SHEATHED CORD WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/300 V
AC test voltage : 2,000 V

Application

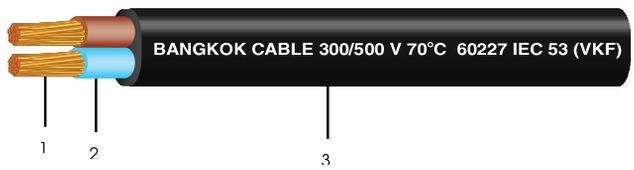
- Use for connecting portable electric appliance
- Use for wiring within electric appliance

Products code	No. of core	Conductor				Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area		Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2		mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground										
C2LG02724012	2	0.5	0.5	0.21	0.92	0.5	0.6	4.9	6.3	0.012	3	48	100/C
C2LG029J4012	2	0.75	0.75	0.21	1.13	0.5	0.6	5.2	6.7	0.010	6	60	100/C

C = Packing in coil

300/500 V 70°C 60227 IEC 53 (VKF)

2 CORES - ORDINARY POLYVINYL CHLORIDE SHEATHED CORD



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

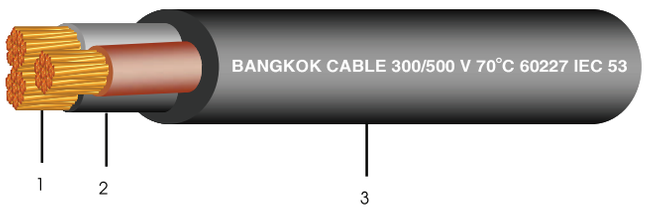
- Use for connecting portable electric applianec (heavy duty)
- Use for connecting lamp

Products code	No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LR02164012	2	0.75	0.21	1.13	0.6	0.8	3.7 x 6.0	4.5 x 7.2	0.011	6	48	100/C
C3LR020N4012	2	1	0.21	1.31	0.6	0.8	3.9 x 6.2	4.7 x 7.5	0.010	10	53	100/C

C = Packing in coil

300/500 V 70°C 60227 IEC 53

2,3,4,5 CORES - ORDINARY POLYVINYL CHLORIDE SHEATHED CORD



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour : 2 cores - Blue, Brown
   3 cores - Brown, Black, Grey
   4 cores - Blue, Brown, Black, Grey
   5 cores - Blue, Brown, Black, Grey, Black
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

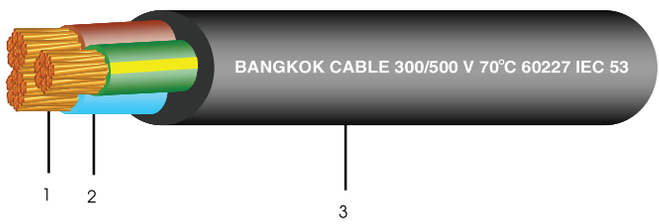
- Use for connecting portable electric applianec (heavy duty)
- Use for connecting lamp

Products code	No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LH02164012	2	0.75	0.21	1.13	0.6	0.8	5.7	7.2	0.011	6	63	100/C
C3LH020N4012	2	1	0.21	1.31	0.6	0.8	5.9	7.5	0.010	10	73	100/C
C3LH023B4012	2	1.5	0.26	1.58	0.7	0.8	6.8	8.6	0.010	16	95	100/C
C3LH02354012	2	2.5	0.26	2.04	0.8	1.0	8.4	10.6	0.009	25	143	100/C
C3LH03164012	3	0.75	0.21	1.13	0.6	0.8	6.0	7.6	0.011	6	74	100/C
C3LH030N4012	3	1	0.21	1.31	0.6	0.8	6.3	8.0	0.010	10	87	100/C
C3LH033B4012	3	1.5	0.26	1.58	0.7	0.9	7.4	9.4	0.010	16	118	100/C
C3LH03354012	3	2.5	0.26	2.04	0.8	1.1	9.2	11.4	0.009	20	187	100/C
C3LH04164012	4	0.75	0.21	1.13	0.6	0.8	6.6	8.3	0.011	6	91	100/C
C3LH040N4012	4	1	0.21	1.31	0.6	0.9	7.1	9.0	0.010	10	112	100/C
C3LH043B4012	4	1.5	0.26	1.58	0.7	1.0	8.4	10.5	0.010	16	149	100/C
C3LH04354012	4	2.5	0.26	2.04	0.8	1.1	10.1	12.5	0.009	20	224	100/C
C3LH05164012	5	0.75	0.21	1.13	0.6	0.9	7.4	9.3	0.011	6	110	100/C
C3LH050N4012	5	1	0.21	1.31	0.6	0.9	7.8	9.8	0.010	10	130	100/C
C3LH053B4012	5	1.5	0.26	1.58	0.7	1.1	9.3	11.6	0.010	16	190	100/C
C3LH05354012	5	2.5	0.26	2.04	0.8	1.2	11.2	13.9	0.009	20	290	100/C

C = Packing in coil

300/500 V 70°C 60227 IEC 53

2 CORES - ORDINARY POLYVINYL CHLORIDE SHEATHED CORD WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

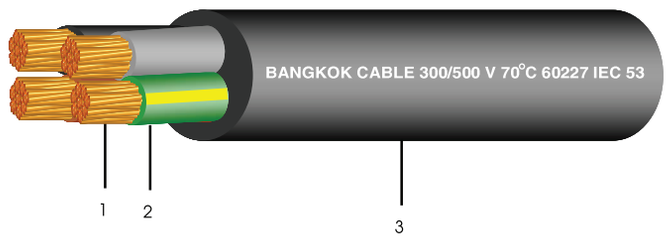
- Use for connecting portable electric applianec (heavy duty)
- Use for connecting lamp

Products code	No. of core	Conductor				Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area		Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2		mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground										
C3LH029J4012	2	0.75	0.75	0.21	1.13	0.6	0.8	6.0	7.6	0.011	6	74	100/C
C3LH02744012	2	1	1	0.21	1.31	0.6	0.8	6.3	8.0	0.010	10	88	100/C
C3LH028N4012	2	1.5	1.5	0.26	1.58	0.7	0.9	7.4	9.4	0.010	16	120	100/C
C3LH022P4012	2	2.5	2.5	0.26	2.04	0.8	1.1	9.2	11.4	0.009	25	182	100/C

C = Packing in coil

300/500 V 70°C 60227 IEC 53

3 CORES - ORDINARY POLYVINYL CHLORIDE SHEATHED CORD WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Color code : Phase - Brown, Black, Grey
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

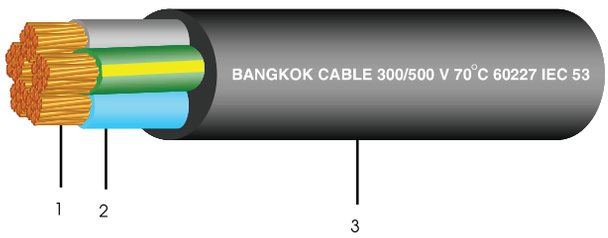
- Use for connecting portable electric applianec (heavy duty)
- Use for connecting lamp

Products code	No. of core	Conductor				Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area		Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2		mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground										
C3LH039J4012	3	0.75	0.75	0.21	1.13	0.6	0.8	6.6	8.3	0.011	6	91	100/C
C3LH03744012	3	1	1	0.21	1.31	0.6	0.9	7.1	9.0	0.010	10	110	100/C
C3LH038N4012	3	1.5	1.5	0.26	1.58	0.7	1.0	8.4	10.5	0.010	16	150	100/C
C3LH032P4012	3	2.5	2.5	0.26	2.04	0.8	1.1	10.1	12.5	0.009	20	230	100/C

C = Packing in coil

300/500 V 70°C 60227 IEC 53

4 CORES - ORDINARY POLYVINYL CHLORIDE SHEATHED CORD WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown, Black, Grey
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

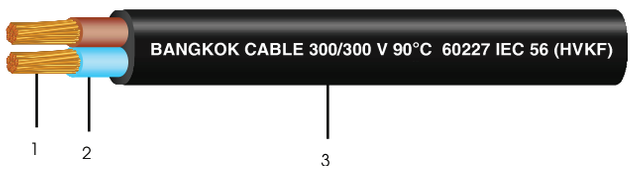
- Use for connecting portable electric applianec (heavy duty)
- Use for connecting lamp

Products code	No. of core	Conductor				Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area		Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2		mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground										
C3LH049J4012	4	0.75	0.75	0.21	1.13	0.6	0.9	7.4	9.3	0.011	6	110	100/C
C3LH04744012	4	1	1	0.21	1.31	0.6	0.9	7.8	9.8	0.010	10	130	100/C
C3LH048N4012	4	1.5	1.5	0.26	1.58	0.7	1.1	9.3	11.6	0.010	16	190	100/C
C3LH042P4012	4	2.5	2.5	0.26	2.04	0.8	1.2	11.2	13.9	0.009	20	290	100/C

C = Packing in coil

300/300 V 90°C 60227 IEC 56 (HVKF)

2 CORES - HEAT-RESISTANT LIGHT PVC-SHEATHED CORD



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/300 V
AC test voltage : 2,000 V

Application

• Use for connecting portable electric applianec (heavy duty)

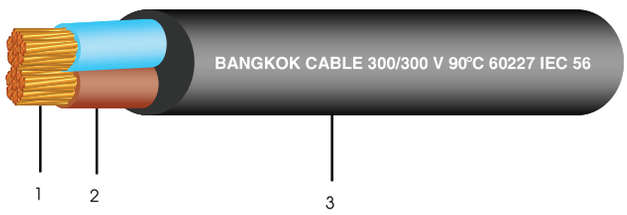
B

Products code	No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C2LT02094012	2	0.5	0.21	0.92	0.5	0.6	3.0 x 4.9	3.7 x 5.9	0.012	3	29	100/C
C2LT02164012	2	0.75	0.21	1.13	0.5	0.6	3.2 x 5.2	3.8 x 6.3	0.010	6	36	100/C

C = Packing in coil

300/300 V 90°C 60227 IEC 56

2 CORES - HEAT-RESISTANT LIGHT PVC-SHEATHED CORD



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Sheathres : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/300 V
AC test voltage : 2,000 V

Application

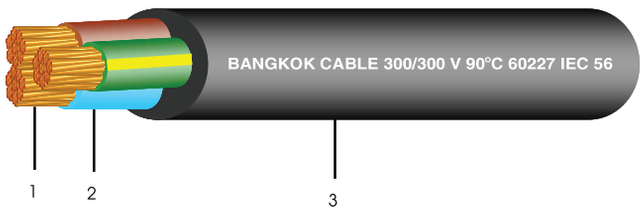
• Use for connecting portable electric applianec (heavy duty)

Products code	No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2	(Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C2LJ02094012	2	0.5	0.21	0.92	0.5	0.6	4.6	5.9	0.012	3	41	100/C
C2LJ02164012	2	0.75	0.21	1.13	0.5	0.6	4.9	6.3	0.010	6	50	100/C

C = Packing in coil

300/300 V 90°C 60227 IEC 56

2 CORES - HEAT-RESISTANT LIGHT PVC-SHEATHED CORD WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/300 V
AC test voltage : 2,000 V

Application

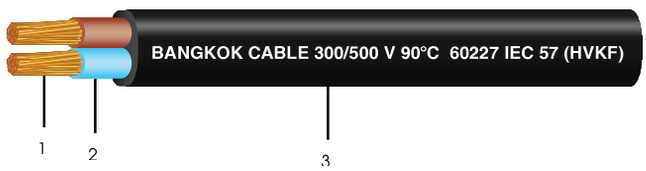
• Use for connecting portable electric applianec (heavy duty)

Products code	No. of core	Conductor				Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area		Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2		mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground										
C2LJ02724012	2	0.5	0.5	0.21	0.92	0.5	0.6	4.9	6.3	0.012	3	48	100/C
C2LJ029J4012	2	0.75	0.75	0.21	1.13	0.5	0.6	5.2	6.7	0.010	6	60	100/C

C = Packing in coil

300/500 V 90°C 60227 IEC 57 (HVKF)

2 CORES - HEAT-RESISTANT ORDINARY PVC-SHEATHED CORD



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

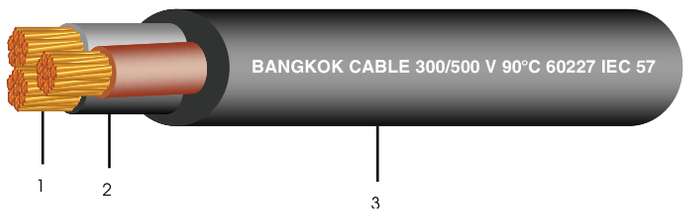
- Use for connecting portable electric applianec (heavy duty)
- Use for wiring in lamp with/without ballast
- Use in an advertisement board/an electric signs

Products code	No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LU02164012	2	0.75	0.21	1.13	0.6	0.8	3.7 x 6.0	4.5 x 7.2	0.011	6	44	100/C
C3LU020N4012	2	1	0.21	1.31	0.6	0.8	3.9 x 6.2	4.7 x 7.5	0.010	10	52	100/C

C = Packing in coil

300/500 V 90°C 60227 IEC 57

2,3,4,5 CORES - HEAT-RESISTANT ORDINARY PVC-SHEATHED CORD



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour : 2 cores - Blue, Brown
   3 cores - Brown, Black, Grey
   4 cores - Blue, Brown, Black, Grey
   5 cores - Blue, Brown, Black, Grey, Black
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

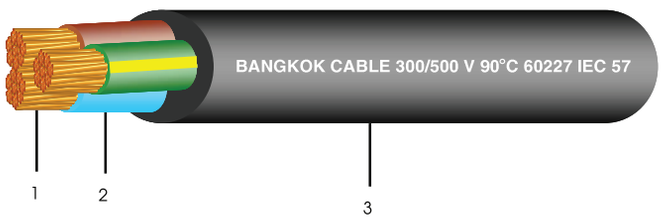
- Use for connecting portable electric applianec (heavy duty)
- Use for wiring in lamp with/without ballast
- Use in an advertisement board/an electric signs

Products code	No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area	Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3LK02164012	2	0.75	0.21	1.13	0.6	0.8	5.7	7.2	0.011	6	63	100/C
C3LK020N4012	2	1	0.21	1.31	0.6	0.8	5.9	7.5	0.010	10	72	100/C
C3LK023B4012	2	1.5	0.26	1.58	0.7	0.8	6.8	8.6	0.010	16	96	100/C
C3LK02354012	2	2.5	0.26	2.04	0.8	1.0	8.4	10.6	0.009	25	150	100/C
C3LK03164012	3	0.75	0.21	1.13	0.6	0.8	6.0	7.6	0.011	6	74	100/C
C3LK030N4012	3	1	0.21	1.31	0.6	0.8	6.3	8.0	0.010	10	87	100/C
C3LK033B4012	3	1.5	0.26	1.58	0.7	0.9	7.4	9.4	0.010	16	120	100/C
C3LK03354012	3	2.5	0.26	2.04	0.8	1.1	9.2	11.4	0.009	20	190	100/C
C3LK04164012	4	0.75	0.21	1.13	0.6	0.8	6.6	8.3	0.011	6	91	100/C
C3LK040N4012	4	1	0.21	1.31	0.6	0.9	7.1	9.0	0.010	10	110	100/C
C3LK043B4012	4	1.5	0.26	1.58	0.7	1.0	8.4	10.5	0.010	16	150	100/C
C3LK04354012	4	2.5	0.26	2.04	0.8	1.1	10.1	12.5	0.009	20	230	100/C
C3LK05164012	5	0.75	0.21	1.13	0.6	0.9	7.4	9.3	0.011	6	110	100/C
C3LK050N4012	5	1	0.21	1.31	0.6	0.9	7.8	9.8	0.010	10	130	100/C
C3LK053B4012	5	1.5	0.26	1.58	0.7	1.1	9.3	11.6	0.010	16	190	100/C
C3LK05354012	5	2.5	0.26	2.04	0.8	1.2	11.2	13.9	0.009	20	290	100/C

C = Packing in coil

300/500 V 90°C 60227 IEC 57

2 CORES - HEAT-RESISTANT ORDINARY PVC-SHEATHED CORD WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

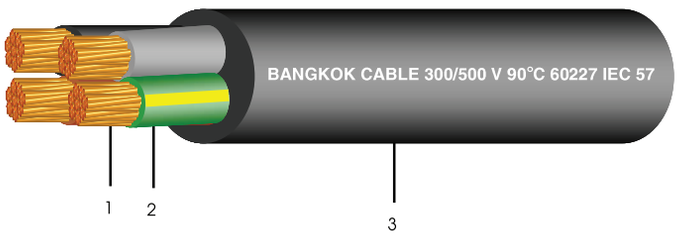
- Use for connecting portable electric applianec (heavy duty)
- Use for wiring in lamp with/without ballast
- Use in an advertisement board/an electric signs

Products code	No. of core	Conductor				Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area		Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2		mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground										
C3LK029J4012	2	0.75	0.75	0.21	1.13	0.6	0.8	6.0	7.6	0.011	6	74	100/C
C3LK02744012	2	1	1	0.21	1.31	0.6	0.8	6.3	8.0	0.010	10	87	100/C
C3LK028N4012	2	1.5	1.5	0.26	1.58	0.7	0.9	7.4	9.4	0.010	16	120	100/C
C3LK022P4012	2	2.5	2.5	0.26	2.04	0.8	1.1	9.2	11.4	0.009	25	190	100/C

C = Packing in coil

300/500 V 90°C 60227 IEC 57

3 CORES - HEAT-RESISTANT ORDINARY PVC-SHEATHED CORD WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Color code : Phase - Brown, Black, Grey
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

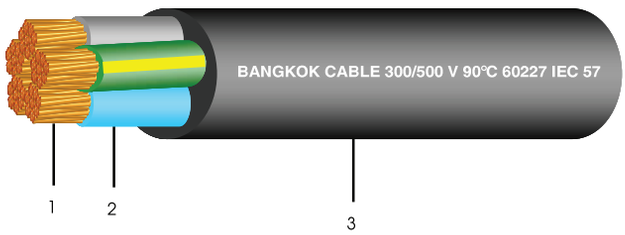
- Use for connecting portable electric applianec (heavy duty)
- Use for wiring in lamp with/without ballast
- Use in an advertisement board/an electric signs

Products code	No. of core	Conductor				Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area mm^2		Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm	mm	Lower limit mm	Upper limit mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground										
C3LK039J4012	3	0.75	0.75	0.21	1.13	0.6	0.8	6.6	8.3	0.011	6	91	100/C
C3LK03744012	3	1	1	0.21	1.31	0.6	0.9	7.1	9.0	0.010	10	110	100/C
C3LK038N4012	3	1.5	1.5	0.26	1.58	0.7	1.0	8.4	10.5	0.010	16	150	100/C
C3LK032P4012	3	2.5	2.5	0.26	2.04	0.8	1.1	10.1	12.5	0.009	20	230	100/C

C = Packing in coil

300/500 V 90°C 60227 IEC 57

4 CORES - HEAT-RESISTANT ORDINARY PVC-SHEATHED CORD WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown, Black, Grey
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 5-2553

Classification

Maximum conductor temperature : 90°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

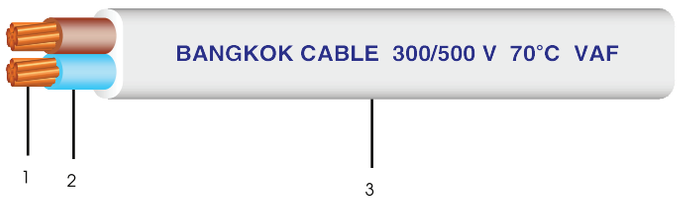
- Use for connecting portable electric applianec (heavy duty)
- Use for wiring in lamp with/without ballast
- Use in an advertisement board/an electric signs

Products code	No. of core	Conductor				Thickness of insulation	Thickness of sheath	Overall diameter		Insulation resistance at 90°C	Current rating in free air	Cable weight	Standard length
		Cross-sectional area		Dia. of wires	Diameter			Lower limit	Upper limit				
		mm^2		mm (Max.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
		Phase	Ground										
C3LK049J4012	4	0.75	0.75	0.21	1.13	0.6	0.9	7.4	9.3	0.011	6	110	100/C
C3LK04744012	4	1	1	0.21	1.31	0.6	0.9	7.8	9.8	0.010	10	130	100/C
C3LK048N4012	4	1.5	1.5	0.26	1.58	0.7	1.1	9.3	11.6	0.010	16	190	100/C
C3LK042P4012	4	2.5	2.5	0.26	2.04	0.8	1.2	11.2	13.9	0.009	20	290	100/C

C = Packing in coil

300/500 V 70°C VAF

2 CORES - PVC INSULATED AND SHEATHED CABLE, FLAT TYPE



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Sheath : Polyvinyl chloride (PVC), White colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

- Use for surface wiring
- For installation in raceway
- *Do not install in conduit*
- *Do not burial in ground*

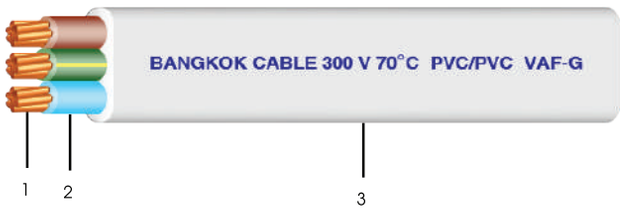
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Products code	Conductor				Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating on wall	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter	Thickness of insulation		Lower limit	Upper limit				
	mm^2	(Min.)	mm (Approx.)	mm	mm	mm	mm	MΩ.km (Min.)	A	kg/km (Approx.)	m
C3P0022V1022	1	1	1.11	0.6	0.9	4.0 x 6.2	4.7 x 7.4	0.0110	14	52	100/C
C3P0023V1022	1.5	1	1.36	0.7	0.9	4.4 x 7.0	5.4 x 8.4	0.0110	17	69	100/C
C3P0024V1022	2.5	1	1.75	0.8	1.0	5.2 x 8.4	6.2 x 9.8	0.0100	23	99	100/C
C3P0025V2022	4	7	2.55	0.8	1.1	5.6 x 9.6	7.2 x 11.5	0.0077	32	150	100/C
C3P0026V2022	6	7	3.11	0.8	1.1	6.4 x 10.5	8.0 x 13.0	0.0065	41	203	100/C
C3P0027V2022	10	7	3.98	1.0	1.2	7.8 x 13.0	9.6 x 16.0	0.0065	56	321	100/C
C3P0028V2022	16	7	5.01	1.0	1.3	9.0 x 15.5	11.0 x 18.5	0.0052	74	455	100/C

C = Packing in coil

300/500 V 70°C VAF-G

2 CORES - PVC INSULATED AND SHEATHED CABLE, FLAT TYPE WITH GROUND



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown
   : Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), White colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated voltage : 300/500 V
AC test voltage : 2,000 V

Application

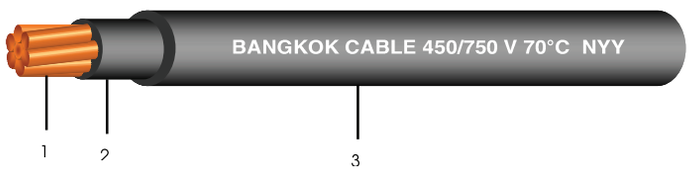
- Use for surface wiring
- For installation in raceway
- *Do not install in conduit*
- *Do not burial in ground*

Products code	Conductor						Thickness of insulation		Thickness of sheath	Overall diameter		Insulation resistance at 70°C	Current rating on wall	Cable weight	Standard length
	Cross-sectional area		No. of wires		Diameter					Lower limit	Upper limit				
	mm^2		(Min.)		mm (Approx.)		mm		mm	mm	mm	MΩ. km (Min.)	A	kg/km (Approx.)	m
	Phase	Ground	Phase	Ground	Phase	Ground	Phase	Ground							
C3P1021X1022	1	1	1	1	1.11	1.11	0.6	0.6	0.9	4.0x8.4	4.7x9.8	0.0110	14	73	100/C
C3P1022X1022	1.5	1.5	1	1	1.36	1.36	0.7	0.7	0.9	4.4x9.8	5.4x11.5	0.0110	17	103	100/C
C3P1023X1022	2.5	2.5	1	1	1.75	1.75	0.8	0.8	1.0	5.2x11.5	6.2x13.5	0.0100	23	151	100/C
C3P1024X2022	4	4	7	7	2.49	2.49	0.8	0.8	1.1	5.8x13.4	7.4x16.5	0.0077	32	227	100/C
C3P1025X2022	6	6	7	7	3.09	3.09	0.8	0.8	1.1	6.4x15.0	8.0x18.0	0.0065	41	300	100/C
C3P1026X2022	10	10	7	7	3.99	3.99	1.0	1.0	1.2	7.8x19.0	9.6x22.5	0.0065	56	480	100/C
C3P1027X2022	16	16	7	7	5.01	5.01	1.0	1.0	1.3	9.0x22.0	11.0x26.5	0.0052	74	690	100/C

C = Packing in coil

450/750 V 70°C NYY

1 CORE - PVC INSULATED AND SHEATHED CABLE, ROUND TYPE



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC), Black colour
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C

Rated voltage : 450/750 V

AC test voltage : 2,500 V

Application

- Use for general purpose
- laid on cable trays/Cable ladder
- Install in duct in ground or direct burial in ground

B

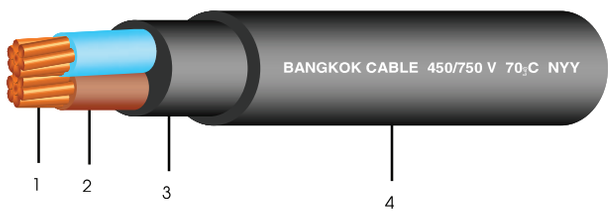
Products code	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Insulation resistance at 70°C	Current rating		Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter					on cable ladder	direct burial in ground		
	mm^2		mm	mm	mm	mm	MΩ.km	A	A	kg/km	m
		(Min.)	(Approx.)			(Max.)	(Min.)			(Approx.)	
C6L6012V1012	1	1	1.11	1.5	1.8	8.6	0.0207	-	21	82	100/C
C6L6012V4012	1	7	1.29	1.5	1.8	8.8	0.0200	-	21	85	100/C
C6L6013V1012	1.5	1	1.36	1.5	1.8	9.0	0.0184	-	26	90	100/C
C6L6013V4012	1.5	7	1.59	1.5	1.8	9.2	0.0175	-	26	94	100/C
C6L6014V1012	2.5	1	1.75	1.5	1.8	9.4	0.0157	-	35	105	100/C
C6L6014V4012	2.5	7	2.01	1.5	1.8	9.8	0.0146	-	35	110	100/C
C6L6015V1012	4	1	2.21	1.5	1.8	10.0	0.0135	-	45	130	100/C
C6L6015V2012	4	7	2.55	1.5	1.8	10.5	0.0124	-	45	130	100/C
C6L6016V2012	6	7	3.12	1.5	1.8	11.0	0.0107	-	57	160	100/C
C6L6017V2011	10	7	3.98	1.5	1.8	12.0	0.0088	-	76	220	500/D
C6L6018V2011	16	7	5.01	1.5	1.8	13.0	0.0074	-	99	290	500/D
C6L6019V2011	25	7	6.33	1.5	1.8	14.5	0.0061	127	128	400	500/D
C6L6010W2011	35	7	7.60	1.5	1.8	16.0	0.0053	157	154	510	500/D
C6L6011W2011	50	19	8.83	1.5	1.8	17.0	0.0046	191	181	650	500/D
C6L6012W2011	70	19	10.58	1.5	1.8	19.0	0.0039	244	223	870	500/D
C6L6013W2011	95	19	12.50	1.7	1.8	21.5	0.0038	297	267	1,170	500/D
C6L6014W2011	120	37	14.07	1.7	1.8	23.0	0.0034	345	304	1,430	500/D
C6L6015W2011	150	37	15.61	1.9	2.0	26.0	0.0034	397	342	1,760	500/D
C6L6016W2011	185	37	17.50	2.1	2.0	28.0	0.0034	453	386	2,170	500/D
C6L6017W2011	240	37	20.07	2.3	2.2	31.5	0.0033	535	448	2,830	500/D
C6L6018W2011	300	61	22.50	2.5	2.2	35.0	0.0032	617	507	3,480	300/D
C6L6019W2011	400	61	25.38	2.7	2.2	38.5	0.0030	741	577	4,400	300/D
C6L6010X2011	500	61	28.71	3.1	2.4	43.0	0.0031	854	654	5,630	300/D

C = Packing in coil

D = Packing in drum

450/750 V 70°C NYY

2 CORES - PVC INSULATED AND DOUBLE SHEATHED CABLE, ROUND TYPE



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown
3. Inner sheath : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated voltage : 450/750 V
AC test voltage : 2,500 V

Application

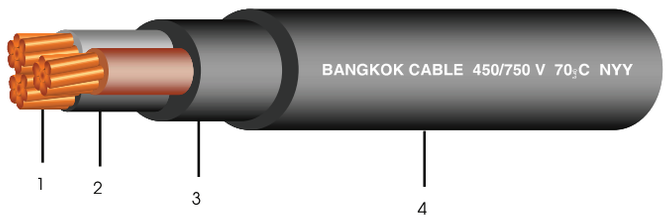
- Use for general purpose
- laid on cable trays/Cable ladder
- Install in duct in ground or direct burial in ground

Products code	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Insulation resistance at 70°C	Current rating		Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter						on cable ladder	direct burial in ground		
	mm^2	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm	mm (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
C6L6022V1012	1	1	1.11	0.8	0.8	1.8	12.0	0.0141	13	21	160	100/C
C6L6022V4012	1	7	1.29	0.8	0.8	1.8	12.5	0.0135	13	21	170	100/C
C6L6023V1012	1.5	1	1.36	0.8	0.8	1.8	12.5	0.0123	16	26	180	100/C
C6L6023V4012	1.5	7	1.59	0.8	0.8	1.8	13.0	0.0116	16	26	190	100/C
C6L6024V1012	2.5	1	1.75	0.8	0.8	1.8	13.5	0.0102	22	35	220	100/C
C6L6024V4012	2.5	7	2.01	0.8	0.8	1.8	14.0	0.0093	22	35	230	100/C
C6L6025V1012	4	1	2.21	0.9	0.8	1.8	15.0	0.0094	30	45	280	100/C
C6L6025V2012	4	7	2.55	0.9	0.8	1.8	15.5	0.0085	30	45	300	100/C
C6L6026V2012	6	7	3.12	0.9	0.8	1.8	17.0	0.0073	37	57	370	100/C
C6L6027V2011	10	7	3.98	1.1	0.8	1.8	19.5	0.0069	52	76	540	500/D
C6L6028V2011	16	7	5.01	1.1	0.8	2.0	22.5	0.0057	70	99	740	500/D
C6L6029V2011	25	7	6.33	1.3	1.2	2.0	27.0	0.0054	88	128	1,120	500/D
C6L6020W2011	35	7	7.60	1.3	1.2	2.0	29.5	0.0047	110	154	1,420	500/D
C6L6021W2011	50	19	8.83	1.5	1.2	2.2	33.5	0.0046	133	181	1,850	500/D
C6L6022W2011	70	19	10.58	1.5	1.5	2.2	38.0	0.0039	171	223	2,500	500/D
C6L6023W2011	95	19	12.50	1.7	1.5	2.2	42.5	0.0038	207	267	3,300	500/D
C6L6024W2011	120	37	14.07	1.7	1.5	2.4	46.5	0.0034	240	304	4,010	500/D
C6L6025W2011	150	37	15.61	1.9	1.8	2.6	52.0	0.0034	278	342	4,970	300/D
C6L6026W2011	185	37	17.50	2.1	1.8	2.8	57.0	0.0034	317	386	6,110	300/D
C6L6027W2011	240	37	20.07	2.3	2.0	3.0	64.0	0.0033	374	448	7,900	300/D
C6L6028W2011	300	61	22.50	2.5	2.0	3.2	70.5	0.0032	432	507	9,690	200/D

C = Packing in coil
D = Packing in drum

450/750 V 70°C NYY

3 CORES - PVC INSULATED AND DOUBLE SHEATHED CABLE, ROUND TYPE



Construction

1. Conductor	:	Solid or circular stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC)
Colour code	:	Brown, Black, Grey
3. Inner sheath	:	Polyvinyl chloride (PVC), Black colour
4. Outer sheath	:	Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature	:	70°C
Rated voltage	:	450/750 V
AC test voltage	:	2,500 V

Application

- Use for general purpose
- laid on cable trays/Cable tray
- Install in duct in ground or direct burial in ground

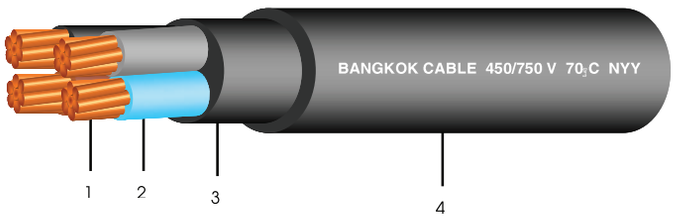
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Products code	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Insulation resistance at 70°C	Current rating		Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter						on cable ladder	direct burial in ground		
	mm^2	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm	mm (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
C6L6032V1012	1	1	1.11	0.8	0.8	1.8	12.5	0.0141	13	21	180	100/C
C6L6032V4012	1	7	1.29	0.8	0.8	1.8	13.0	0.0135	13	21	190	100/C
C6L6033V1012	1.5	1	1.36	0.8	0.8	1.8	13.0	0.0123	16	26	205	100/C
C6L6033V4012	1.5	7	1.59	0.8	0.8	1.8	13.5	0.0116	16	26	220	100/C
C6L6034V1012	2.5	1	1.75	0.8	0.8	1.8	14.0	0.0102	22	35	250	100/C
C6L6034V4012	2.5	7	2.01	0.8	0.8	1.8	15.0	0.0093	22	35	270	100/C
C6L6035V1012	4	1	2.21	0.9	0.8	1.8	15.5	0.0094	30	45	335	100/C
C6L6035V2012	4	7	2.55	0.9	0.8	1.8	16.5	0.0085	30	45	360	100/C
C6L6036V2012	6	7	3.12	0.9	0.8	1.8	18.0	0.0073	37	57	450	100/C
C6L6037V2011	10	7	3.98	1.1	0.8	1.8	20.5	0.0069	52	76	660	500/D
C6L6038V2011	16	7	5.01	1.1	1.2	2.0	24.5	0.0057	70	99	970	500/D
C6L6039V2011	25	7	6.33	1.3	1.2	2.0	28.5	0.0054	88	128	1,410	500/D
C6L6030W2011	35	7	7.60	1.3	1.2	2.0	31.5	0.0047	110	154	1,810	500/D
C6L6031W2011	50	19	8.83	1.5	1.5	2.2	36.0	0.0046	133	181	2,410	500/D
C6L6032W2011	70	19	10.58	1.5	1.5	2.2	40.5	0.0039	171	223	3,200	500/D
C6L6033W2011	95	19	12.50	1.7	1.5	2.4	46.0	0.0038	207	267	4,300	500/D
C6L6034W2011	120	37	14.07	1.7	1.8	2.6	50.5	0.0034	240	304	5,320	300/D
C6L6035W2011	150	37	15.61	1.9	1.8	2.8	56.0	0.0034	278	342	6,490	300/D
C6L6036W2011	185	37	17.50	2.1	2.0	3.0	61.5	0.0034	317	386	8,060	300/D
C6L6037W2011	240	37	20.07	2.3	2.0	3.2	69.0	0.0033	374	448	10,360	200/D
C6L6038W2011	300	61	22.50	2.5	2.2	3.4	76.0	0.0032	432	507	12,810	200/D

C = Packing in coil
D = Packing in drum

450/750 V 70°C NYY

4 CORES - PVC INSULATED AND DOUBLE SHEATHED CABLE, ROUND TYPE



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Blue, Brown, Black, Grey
3. Inner sheath : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated voltage : 450/750 V
AC test voltage : 2,500 V

Application

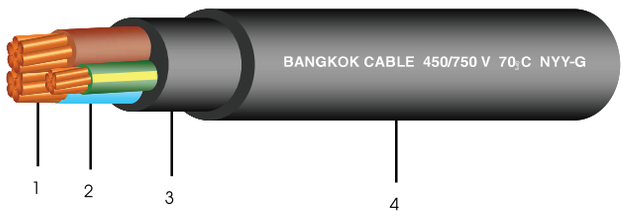
- Use for general purpose
- laid on cable trays/Cable ladder
- Install in duct in ground or direct burial in ground

Products code	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Insulation resistance at 70°C	Current rating		Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter						on cable ladder	direct burial in ground		
	mm^2	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm	mm (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
C6L6042V1012	1	1	1.11	0.8	0.8	1.8	13.5	0.0141	13	21	210	100/C
C6L6042V4012	1	7	1.29	0.8	0.8	1.8	14.0	0.0135	13	21	220	100/C
C6L6043V1012	1.5	1	1.36	0.8	0.8	1.8	14.0	0.0123	16	26	240	100/C
C6L6043V4012	1.5	7	1.59	0.8	0.8	1.8	14.5	0.0116	16	26	260	100/C
C6L6044V1012	2.5	1	1.75	0.8	0.8	1.8	15.0	0.0102	22	35	300	100/C
C6L6044V4012	2.5	7	2.01	0.8	0.8	1.8	16.0	0.0093	22	35	320	100/C
C6L6045V1012	4	1	2.21	0.9	0.8	1.8	17.0	0.0094	30	45	400	100/C
C6L6045V2012	4	7	2.55	0.9	0.8	1.8	17.5	0.0085	30	45	440	100/C
C6L6046V2012	6	7	3.12	0.9	0.8	1.8	19.0	0.0073	37	57	550	100/C
C6L6047V2011	10	7	3.98	1.1	0.8	2.0	23.0	0.0069	52	76	840	500/D
C6L6048V2011	16	7	5.01	1.1	1.2	2.0	26.5	0.0057	70	99	1,200	500/D
C6L6049V2011	25	7	6.33	1.3	1.2	2.0	31.0	0.0054	88	128	1,760	500/D
C6L6040W2011	35	7	7.60	1.3	1.5	2.2	35.0	0.0047	110	154	2,360	500/D
C6L6041W2011	50	19	8.83	1.5	1.5	2.2	39.5	0.0046	133	181	3,020	500/D
C6L6042W2011	70	19	10.58	1.5	1.5	2.4	44.5	0.0039	171	223	4,090	500/D
C6L6043W2011	95	19	12.50	1.7	1.8	2.6	51.5	0.0038	207	267	5,580	300/D
C6L6044W2011	120	37	14.07	1.7	1.8	2.8	56.0	0.0034	240	304	6,800	300/D
C6L6045W2011	150	37	15.61	1.9	2.0	3.0	62.0	0.0034	278	342	8,360	300/D
C6L6046W2011	185	37	17.50	2.1	2.0	3.2	68.0	0.0034	317	386	10,310	200/D
C6L6047W2011	240	37	20.07	2.3	2.2	3.4	76.5	0.0033	374	448	13,350	200/D
C6L6048W2011	300	61	22.50	2.5	2.2	3.8	85.0	0.0032	432	507	16,500	200/D

C = Packing in coil
D = Packing in drum

450/750 V 70°C NYY-G

2 CORES - PVC INSULATED AND DOUBLE SHEATHED CABLE, ROUND TYPE WITH GROUND



Construction

1. Conductor	:	Solid or circular stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC)
Colour code	:	Phase - Blue, Brown
		Ground - Green/Yellow
3. Inner sheath	:	Polyvinyl chloride (PVC), Black colour
4. Outer sheath	:	Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature	:	70°C
Rated voltage	:	450/750 V
AC test voltage	:	2,500 V

Application

- Use for general purpose
- laid on cable trays/Cable ladder
- Install in duct in ground or direct burial in ground

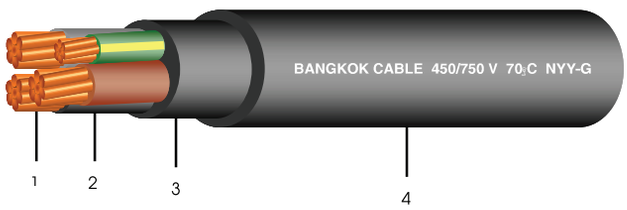
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Products code	Conductor						Thickness of insulation		Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Insulation resistance at 70°C	Current rating		Cable weight	Standard length
	Cross-sectional area		No. of wire		Diameter								on cable ladder	direct burial in ground		
	mm^2		(Min.)		mm (Approx.)		mm		mm (Max.)	mm	mm (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
	Phase	Ground	Phase	Ground	Phase	Ground	Phase	Ground								
C6M0021X1012	1	1	1	1	1.11	1.11	0.8	0.8	0.8	1.8	13.0	0.0141	13	21	180	100/C
C6M0021X4012	1	1	7	7	1.29	1.29	0.8	0.8	0.8	1.8	13.5	0.0135	13	21	190	100/C
C6M0022X1012	1.5	1.5	1	1	1.36	1.36	0.8	0.8	0.8	1.8	13.5	0.0123	16	26	210	100/C
C6M0022X4012	1.5	1.5	7	7	1.59	1.59	0.8	0.8	0.8	1.8	14.0	0.0116	16	26	220	100/C
C6M0023X1012	2.5	2.5	1	1	1.75	1.75	0.8	0.8	0.8	1.8	14.5	0.0102	22	35	250	100/C
C6M0023X4012	2.5	2.5	7	7	2.01	2.01	0.8	0.8	0.8	1.8	15.0	0.0093	22	35	270	100/C
C6M0024X1012	4	4	1	1	2.21	2.21	0.9	0.9	0.8	1.8	16.0	0.0094	30	45	330	100/C
C6LM024X2012	4	4	7	7	2.55	2.55	0.9	0.9	0.8	1.8	16.5	0.0085	30	45	360	100/C
C6M0025X2012	6	6	7	7	3.12	3.12	0.9	0.9	0.8	1.8	18.0	0.0073	37	57	450	100/C
C6LM026X2011	10	10	7	7	3.98	3.98	1.1	1.1	0.8	1.8	21.0	0.0069	52	76	670	500/D
C6M0027X2011	16	16	7	7	5.01	5.01	1.1	1.1	0.8	2.0	23.5	0.0057	70	99	930	500/D
C6M0028X2011	25	16	7	7	6.33	5.01	1.3	1.1	1.2	2.0	28.0	0.0054	88	128	1,280	500/D
C6M0029X2011	35	16	7	7	7.60	5.01	1.3	1.1	1.2	2.0	30.0	0.0047	110	154	1,550	500/D
C6M0020Y2011	50	25	19	7	8.83	6.33	1.5	1.3	1.2	2.2	34.0	0.0046	133	181	2,080	500/D
C6M0021Y2011	70	35	19	7	10.58	7.60	1.5	1.3	1.5	2.2	38.5	0.0039	171	223	2,810	500/D
C6M0022Y2011	95	50	19	19	12.50	8.83	1.7	1.5	1.5	2.2	43.5	0.0038	207	267	3,710	500/D
C6M0023Y2011	120	70	37	19	14.07	10.58	1.7	1.5	1.5	2.4	47.5	0.0034	240	304	4,620	300/D
C6M0024Y2011	150	95	37	19	15.61	12.50	1.9	1.7	1.8	2.6	53.0	0.0034	278	342	5,840	300/D
C6M0025Y2011	185	95	37	19	17.50	12.50	2.1	1.7	1.8	2.8	57.5	0.0034	317	386	6,910	300/D
C6M0026Y2011	240	120	37	37	20.07	14.07	2.3	1.7	2.0	3.0	64.5	0.0033	374	448	8,860	200/D
C6M0027Y2011	300	150	61	37	22.50	15.61	2.5	1.9	2.0	3.2	71.0	0.0032	432	507	10,880	200/D

D = Packing in drum

450/750 V 70°C NYY-G

3 CORES - PVC INSULATED AND DOUBLE SHEATHED CABLE, ROUND TYPE WITH GROUND



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Brown, Black, Grey
   Ground - Green/Yellow
3. Inner sheath : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated voltage : 450/750 V
AC test voltage : 2,500 V

Application

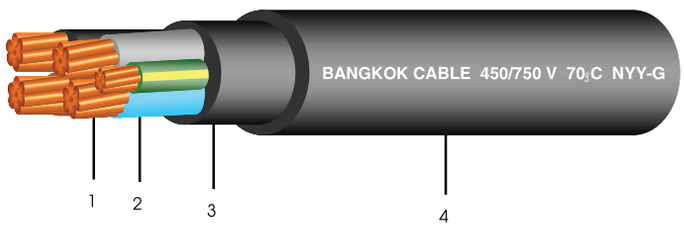
- Use for general purpose
- laid on cable trays/Cable ladder
- Install in duct in ground or direct burial in ground

Products code	Conductor						Thickness of insulation		Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Insulation resistance at 70°C	Current rating		Cable weight	Standard length
	Cross-sectional area		No. of wire		Diameter								on cable ladder	direct burial in ground		
	mm^2		(Min.)		mm (Approx.)		mm		mm (Approx.)	mm	mm (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
	Phase	Ground	Phase	Ground	Phase	Ground	Phase	Ground								
C6M0031X1012	1	1	1	1	1.11	1.11	0.8	0.8	0.8	1.8	13.5	0.0141	13	21	210	100/C
C6M0031X4012	1	1	7	7	1.29	1.29	0.8	0.8	0.8	1.8	14.0	0.0135	13	21	220	100/C
C6M0032X1012	1.5	1.5	1	1	1.36	1.36	0.8	0.8	0.8	1.8	14.0	0.0123	16	26	240	100/C
C6M0032X4012	1.5	1.5	7	7	1.59	1.59	0.8	0.8	0.8	1.8	15.0	0.0116	16	26	250	100/C
C6M0033X1012	2.5	2.5	1	1	1.75	1.75	0.8	0.8	0.8	1.8	15.5	0.0102	22	35	300	100/C
C6M0033X4012	2.5	2.5	7	7	2.01	2.01	0.8	0.8	0.8	1.8	16.0	0.0093	22	35	320	100/C
C6M0034X1012	4	4	1	1	2.21	2.21	0.9	0.9	0.8	1.8	17.0	0.0094	30	45	400	100/C
C6LM034X2012	4	4	7	7	2.55	2.55	0.9	0.9	0.8	1.8	18.0	0.0085	30	45	430	100/C
C6M0035X2012	6	6	7	7	3.12	3.12	0.9	0.9	0.8	1.8	19.0	0.0073	37	57	550	100/C
C6LM036X2011	10	10	7	7	3.98	3.98	1.1	1.1	0.8	1.8	22.5	0.0069	52	76	820	500/D
C6M0037X2011	16	16	7	7	5.01	5.01	1.1	1.1	1.2	2.0	26.5	0.0057	70	99	1,200	500/D
C6M0038X2011	25	16	7	7	6.33	5.01	1.3	1.1	1.2	2.0	30.5	0.0054	88	128	1,620	500/D
C6M0039X2011	35	16	7	7	7.60	5.01	1.3	1.1	1.2	2.0	33.0	0.0047	110	154	1,990	500/D
C6M0030Y2011	50	25	19	7	8.83	6.33	1.5	1.3	1.5	2.2	38.5	0.0046	133	181	2,730	500/D
C6M0031Y2011	70	35	19	7	10.58	7.60	1.5	1.3	1.5	2.2	42.5	0.0039	171	223	3,630	500/D
C6M0032Y2011	95	50	19	19	12.50	8.83	1.7	1.5	1.5	2.4	48.5	0.0038	207	267	4,870	500/D
C6M0033Y2011	120	70	37	19	14.07	10.58	1.7	1.5	1.8	2.6	53.5	0.0034	240	304	6,120	300/D
C6M0034Y2011	150	95	37	19	15.61	12.50	1.9	1.7	1.8	2.8	59.0	0.0034	278	342	7,610	300/D
C6M0035Y2011	185	95	37	19	17.50	12.50	2.1	1.7	2.0	3.0	64.5	0.0034	317	386	9,130	300/D
C6M0036Y2011	240	120	37	37	20.07	14.07	2.3	1.7	2.0	3.2	72.0	0.0033	374	448	11,660	200/D
C6M0037Y2011	300	150	61	37	22.50	15.61	2.5	1.9	2.2	3.4	79.5	0.0032	432	507	14,410	200/D

D = Packing in drum

450/750 V 70°C NYY-G

4 CORES - PVC INSULATED AND DOUBLE SHEATHED CABLE, ROUND TYPE WITH GROUND



Construction

1. Conductor : Solid or circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown, Black, Grey
   Ground - Green/Yellow
3. Inner sheath : Polyvinyl chloride (PVC), Black colour
4. Outer sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated voltage : 450/750 V
AC test voltage : 2,500 V

Application

- Use for general purpose
- laid on cable trays/Cable ladder
- Install in duct in ground or direct burial in ground

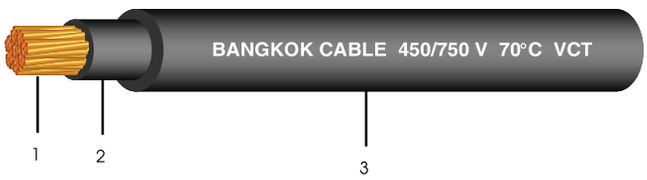
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Products code	Conductor						Thickness of insulation		Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Insulation resistance at 70°C	Current rating		Cable weight	Standard length
	Cross-sectional area		No. of wire		Diameter								on cable ladder	direct burial in ground		
	mm^2		(Min.)		mm (Approx.)		mm		mm (Approx.)	mm	mm (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
	Phase	Ground	Phase	Ground	Phase	Ground	Phase	Ground								
C6M0041X1012	1	1	1	1	1.11	1.11	0.8	0.8	0.8	1.8	14.5	0.0141	13	21	240	100/C
C6M0041X4012	1	1	7	7	1.29	1.29	0.8	0.8	0.8	1.8	15.0	0.0135	13	21	250	100/C
C6M0042X1012	1.5	1.5	1	1	1.36	1.36	0.8	0.8	0.8	1.8	15.0	0.0123	16	26	280	100/C
C6M0042X4012	1.5	1.5	7	7	1.59	1.59	0.8	0.8	0.8	1.8	16.0	0.0116	16	26	290	100/C
C6M0043X1012	2.5	2.5	1	1	1.75	1.75	0.8	0.8	0.8	1.8	16.5	0.0102	22	35	350	100/C
C6M0043X4012	2.5	2.5	7	7	2.01	2.01	0.8	0.8	0.8	1.8	17.0	0.0093	22	35	370	100/C
C6M0044X1012	4	4	1	1	2.21	2.21	0.9	0.9	0.8	1.8	18.0	0.0094	30	45	470	100/C
C6LM044X2012	4	4	7	7	2.55	2.55	0.9	0.9	0.8	1.8	19.0	0.0085	30	45	500	100/C
C6M0045X2012	6	6	7	7	3.12	3.12	0.9	0.9	0.8	1.8	20.5	0.0073	37	57	660	500/D
C6LM046X2011	10	10	7	7	3.98	3.98	1.1	1.1	0.8	2.0	25.0	0.0069	52	76	1,010	500/D
C6M0047X2011	16	16	7	7	5.01	5.01	1.1	1.1	1.2	2.0	28.5	0.0057	70	99	1,450	500/D
C6M0048X2011	25	16	7	7	6.33	5.01	1.3	1.1	1.2	2.0	34.0	0.0054	88	128	1,990	500/D
C6M0049X2011	35	16	7	7	7.60	5.01	1.3	1.1	1.5	2.2	39.0	0.0047	110	154	2,570	500/D
C6M0040Y2011	50	25	19	7	8.83	6.33	1.5	1.3	1.5	2.2	43.5	0.0046	133	181	3,390	500/D
C6M0041Y2011	70	35	19	7	10.58	7.60	1.5	1.3	1.5	2.4	49.0	0.0039	171	223	4,570	500/D
C6M0042Y2011	95	50	19	19	12.50	8.83	1.7	1.5	1.8	2.6	56.5	0.0038	207	267	6,230	300/D
C6M0043Y2011	120	70	37	19	14.07	10.58	1.7	1.5	1.8	2.8	61.5	0.0034	240	304	7,700	300/D
C6M0044Y2011	150	95	37	19	15.61	12.50	1.9	1.7	2.0	3.0	68.0	0.0034	278	342	9,610	300/D
C6M0045Y2011	185	95	37	19	17.50	12.50	2.1	1.7	2.0	3.2	75.0	0.0034	317	386	11,530	200/D
C6M0046Y2011	240	120	37	37	20.07	14.07	2.3	1.7	2.2	3.4	84.5	0.0033	374	448	14,840	200/D
C6M0047Y2011	300	150	61	37	22.50	15.61	2.5	1.9	2.2	3.8	93.5	0.0032	432	507	18,340	150/D

D = Packing in drum

450/750 V 70°C VCT

1 CORE - PVC INSULATED AND SHEATHED CABLE ROUND TYPE, FLEXIBLE CONDUCTOR



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC), Black colour
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 450/750 V
AC test voltage : 2,500 V

Application

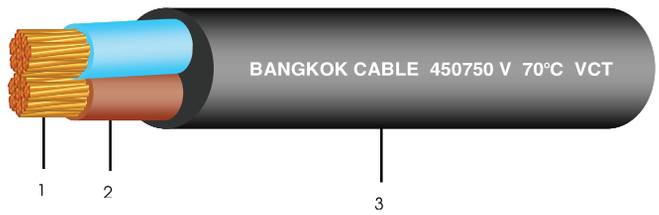
- Use for general purpose
- Use for connecting electric appliance
- Laid on cable trays
- Install in duct in ground or direct burial in ground

Products code	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	Dia. of wires	Diameter							
	mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m
C6P2010N4012	1	0.21	1.31	0.8	1.2	6.2	0.0127	10	42	100/C
C6P2013B4012	1.5	0.26	1.58	0.8	1.2	6.6	0.0111	16	50	100/C
C6P201354012	2.5	0.26	2.04	0.8	1.2	7.4	0.0092	25	63	100/C
C6P201374012	4	0.31	2.59	0.9	1.4	8.6	0.0084	30	93	100/C
C6P201384012	6	0.31	3.60	0.9	1.4	9.4	0.0071	39	120	100/C
C6P201394011	10	0.41	4.79	1.1	1.8	12.0	0.0068	51	210	500/D
C6P201404011	16	0.41	5.88	1.1	1.8	13.5	0.0050	73	280	500/D
C6P201414011	25	0.41	7.32	1.3	2.2	16.0	0.0048	97	420	500/D
C6P201424011	35	0.41	8.61	1.3	2.2	17.5	0.0041	140	540	500/D

C = Packing in coil
D = Packing in drum

450/750 V 70°C VCT

2 CORES - PVC INSULATED AND SHEATHED CABLE ROUND TYPE, FLEXIBLE CONDUCTOR



Construction

1. Conductor	:	Bunch stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC)
Colour code	:	Blue, Brown
3. Sheath	:	Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature	:	70°C
Rated Voltage	:	450/750 V
AC test voltage	:	2,500 V

Application

- Use for general purpose
- Use for connecting electric appliance
- Laid on cable trays
- Install in duct in ground or direct burial in ground

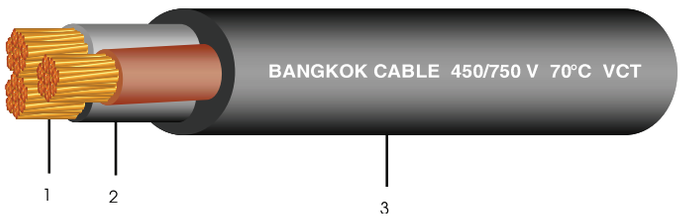
Products code	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	Dia. of wires	Diameter							
	mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m
C6P2020N4012	1	0.21	1.31	0.8	1.2	9.6	0.0127	10	105	100/C
C6P2023B4012	1.5	0.26	1.58	0.8	1.4	11.0	0.0111	16	135	100/C
C6P202354012	2.5	0.26	2.04	0.8	1.4	12.5	0.0092	25	170	100/C
C6P202374012	4	0.31	2.59	0.9	1.6	14.5	0.0084	30	241	100/C
C6P202384012	6	0.31	3.60	0.9	1.6	16.0	0.0071	39	375	100/C
C6P202394011	10	0.41	4.79	1.1	1.8	20.0	0.0068	51	540	500/D
C6P202404011	16	0.41	5.88	1.1	2.2	23.0	0.0050	73	770	500/D
C6P202414011	25	0.41	7.32	1.3	2.4	27.5	0.0048	97	1,130	500/D
C6P202424011	35	0.41	8.61	1.3	2.6	31.0	0.0041	140	1,470	500/D

C = Packing in coil

D = Packing in drum

450/750 V 70°C VCT

3 CORES - PVC INSULATED AND SHEATHED CABLE ROUND TYPE, FLEXIBLE CONDUCTOR



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Brown, Black, Grey
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 450/750 V
AC test voltage : 2,500 V

Application

- Use for general purpose
- Use for connecting electric appliance
- Laid on cable trays
- Install in duct in ground or direct burial in ground

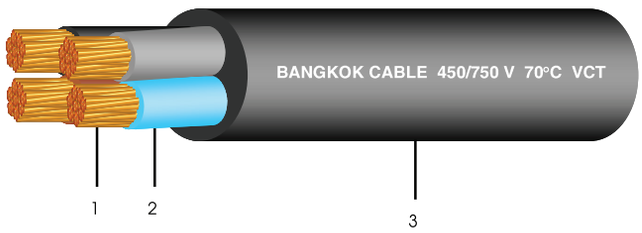
Products code	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	Dia. of wires	Diameter							
	mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m
C6P2030N4012	1	0.21	1.31	0.8	1.4	10.5	0.0127	10	130	100/C
C6P2033B4012	1.5	0.26	1.58	0.8	1.4	11.5	0.0111	16	160	100/C
C6P203354012	2.5	0.26	2.04	0.8	1.4	13.0	0.0092	20	200	100/C
C6P203374012	4	0.31	2.59	0.9	1.6	15.5	0.0084	26	291	100/C
C6P203384012	6	0.31	3.60	0.9	1.8	17.5	0.0071	34	420	100/C
C6P203394011	10	0.41	4.79	1.1	2.0	21.5	0.0068	47	684	500/D
C6P203404011	16	0.41	5.88	1.1	2.4	25.0	0.0050	63	960	500/D
C6P203414011	25	0.41	7.32	1.3	2.6	30.0	0.0048	83	1,420	500/D
C6P203424011	35	0.41	8.61	1.3	2.8	33.5	0.0041	102	1,860	500/D

C = Packing in coil
D = Packing in drum

Revision : 04, May 2021

450/750 V 70°C VCT

4 CORES - PVC INSULATED AND SHEATHED CABLE ROUND TYPE, FLEXIBLE CONDUCTOR



Construction

1. Conductor	:	Bunch stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC)
Colour code	:	Blue, Brown, Black, Grey
3. Sheath	:	Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature	:	70°C
Rated Voltage	:	450/750 V
AC test voltage	:	2,500 V

Application

- Use for general purpose
- Use for connecting electric appliance
- Laid on cable trays
- Install in duct in ground or direct burial in ground

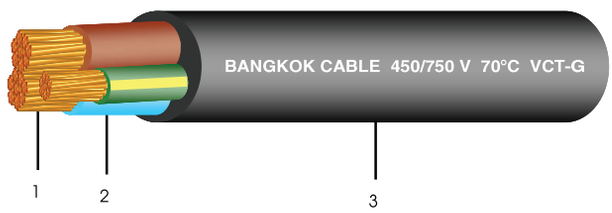
Products code	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area	Dia. of wires	Diameter							
	mm^2	mm (Max.)	mm (Approx.)	mm	mm	mm (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m
C6P2040N4012	1	0.21	1.31	0.8	1.6	12.0	0.0127	10	170	100/C
C6P2043B4012	1.5	0.26	1.58	0.8	1.6	12.5	0.0111	16	200	100/C
C6P204354012	2.5	0.26	2.04	0.8	1.6	15.0	0.0092	20	260	100/C
C6P204374012	4	0.31	2.59	0.9	1.8	17.0	0.0084	26	363	100/C
C6P204384012	6	0.31	3.60	0.9	2.0	19.5	0.0071	34	540	100/C
C6P204394011	10	0.41	4.79	1.1	2.2	24.0	0.0068	47	860	500/D
C6P204404011	16	0.41	5.88	1.1	2.6	28.0	0.0050	63	1,220	500/D
C6P204414011	25	0.41	7.32	1.3	2.8	33.0	0.0048	83	1,800	500/D
C6P204424011	35	0.41	8.61	1.3	3.1	37.0	0.0041	102	2,380	500/D

C = Packing in coil

D = Packing in drum

450/750 V 70°C VCT-G

2 CORES - PVC INSULATED AND SHEATHED CABLE, ROUND TYPE FLEXIBLE CONDUCTOR WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 450/750 V
AC test voltage : 2,500 V

Application

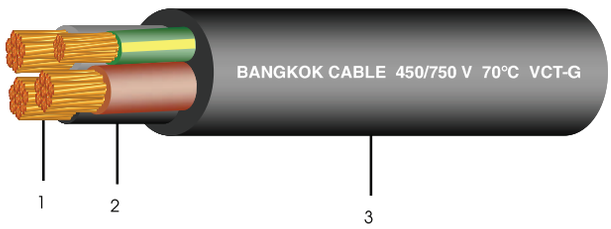
- Use for general purpose
- Use for connecting electric appliance
- Laid on cable trays
- Install in duct in ground or direct burial in ground

Products code	Conductor						Thickness of insulation		Thickness of sheath	Overall diameter	Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area		Dia. of wires		Diameter									
	mm^2		mm (Max.)		mm (Approx.)		mm		mm	mm (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m
	Phase	Ground	Phase	Ground	Phase	Ground	Phase	Ground						
C6P302744012	1	1	0.21	0.21	1.31	1.31	0.8	0.8	1.2	10.0	0.0127	10	120	100/C
C6P3028N4012	1.5	1.5	0.26	0.26	1.58	1.58	0.8	0.8	1.4	12.0	0.0111	16	160	100/C
C6P3022P4012	2.5	2.5	0.26	0.26	2.04	2.04	0.8	0.8	1.4	13.0	0.0092	25	200	100/C
C6P302824012	4	4	0.31	0.31	2.59	2.59	0.9	0.9	1.6	15.5	0.0084	30	300	100/C
C6P302854012	6	6	0.31	0.31	3.60	3.60	0.9	0.9	1.8	17.5	0.0071	39	420	100/C
C6P302884011	10	10	0.41	0.41	4.79	4.79	1.1	1.1	2.0	21.5	0.0068	51	670	500/D
C6P302924011	16	16	0.41	0.41	5.88	5.88	1.1	1.1	2.4	25.0	0.0050	73	960	500/D
C6P302954011	25	16	0.41	0.41	7.32	5.88	1.3	1.1	2.6	28.5	0.0048	97	1,290	500/D
C6P302984011	35	16	0.41	0.41	8.61	5.88	1.3	1.1	2.8	31.5	0.0041	140	1,610	500/D

C = Packing in coil
D = Packing in drum

450/750 V 70°C VCT-G

3 CORES - PVC INSULATED AND SHEATHED CABLE, ROUND TYPE FLEXIBLE CONDUCTOR WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Brown, Black, Grey
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 450/750 V
AC test voltage : 2,500 V

Application

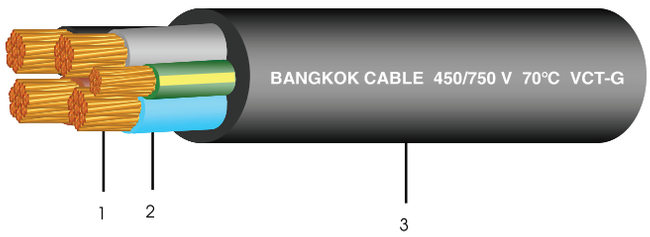
- Use for general purpose
- Use for connecting electric appliance
- Laid on cable trays
- Install in duct in ground or direct burial in ground

Products code	Conductor						Thickness of insulation		Thickness of sheath	Overall diameter	Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area mm²		Dia. of wires mm (Max.)		Diameter mm (Approx.)		mm		mm	mm (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m
	Phase	Ground	Phase	Ground	Phase	Ground	Phase	Ground						
C6P303744012	1	1	0.21	0.21	1.31	1.31	0.8	0.8	1.4	11.5	0.0127	10	160	100/C
C6P3038N4012	1.5	1.5	0.26	0.26	1.58	1.58	0.8	0.8	1.4	12.5	0.0111	16	190	100/C
C6P3032P4012	2.5	2.5	0.26	0.26	2.04	2.04	0.8	0.8	1.4	14.0	0.0092	25	250	100/C
C6P303824012	4	4	0.31	0.31	2.59	2.59	0.9	0.9	1.8	17.0	0.0084	26	380	100/C
C6P303854012	6	6	0.31	0.31	3.60	3.60	0.9	0.9	2.0	19.5	0.0071	34	540	100/C
C6P303884011	10	10	0.41	0.41	4.79	4.79	1.1	1.1	2.2	24.0	0.0068	47	860	500/D
C6P303924011	16	16	0.41	0.41	5.88	5.88	1.1	1.1	2.6	28.0	0.0050	63	1,220	500/D
C6P303954011	25	16	0.41	0.41	7.32	5.88	1.3	1.1	2.8	33.0	0.0048	83	1,670	500/D
C6P303984011	35	16	0.41	0.41	8.61	5.88	1.3	1.1	3.1	37.0	0.0041	102	2,110	500/D

C = Packing in coil
D = Packing in drum

450/750 V 70°C VCT-G

4 CORES - PVC INSULATED AND SHEATHED CABLE, ROUND TYPE FLEXIBLE CONDUCTOR WITH GROUND



Construction

1. Conductor : Bunch stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Phase - Blue, Brown, Black, Grey
   Ground - Green/Yellow
3. Sheath : Polyvinyl chloride (PVC), Black colour

Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated Voltage : 450/750 V
AC test voltage : 2,500 V

Application

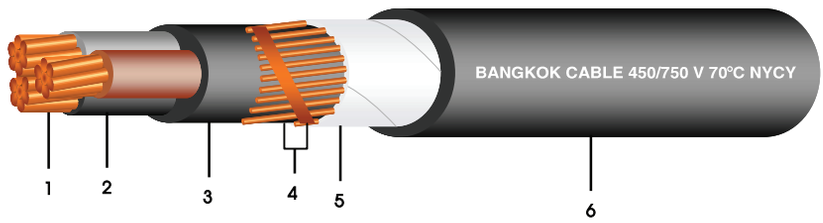
- Use for general purpose
- Use for connecting electric appliance
- Laid on cable trays
- Install in duct in ground or direct burial in ground

Products code	Conductor						Thickness of insulation		Thickness of sheath	Overall diameter	Insulation resistance at 70°C	Current rating in free air	Cable weight	Standard length
	Cross-sectional area		Dia. of wires		Diameter									
	mm^2		mm (Max.)		mm (Approx.)		mm		mm	mm (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m
	Phase	Ground	Phase	Ground	Phase	Ground	Phase	Ground						
C6P304744012	1	1	0.21	0.21	1.31	1.31	0.8	0.8	1.6	13.0	0.0127	10	200	100/C
C6P3048N4012	1.5	1.5	0.26	0.26	1.58	1.58	0.8	0.8	1.6	14.0	0.0111	16	240	100/C
C6P3042P4012	2.5	2.5	0.26	0.26	2.04	2.04	0.8	0.8	1.6	15.5	0.0092	20	310	100/C
C6P304824012	4	4	0.31	0.31	2.59	2.59	0.9	0.9	1.8	18.5	0.0084	26	460	100/C
C6P304854012	6	6	0.31	0.31	3.60	3.60	0.9	0.9	2.0	21.5	0.0071	34	650	100/C
C6P304884011	10	10	0.41	0.41	4.79	4.79	1.1	1.1	2.2	26.5	0.0068	47	1,030	500/D
C6P304924011	16	16	0.41	0.41	5.88	5.88	1.1	1.1	2.6	30.5	0.0050	63	1,480	500/D
C6P304954011	25	16	0.41	0.41	7.32	5.88	1.3	1.1	2.8	36.5	0.0048	83	2,050	500/D
C6P304984011	35	16	0.41	0.41	8.61	5.88	1.3	1.1	3.1	41.5	0.0041	102	2,630	500/D

C = Packing in coil
D = Packing in drum

450/750 V 70°C NYCY

3 CORES - PVC INSULATED AND DOUBLE SHEATHED, ROUND TYPE WITH CONCENTRIC CONDUCTOR



Construction

1. Conductor : Circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Brown, Black, Grey
3. Inner sheath : Polyvinyl chloride (PVC), Black colour
4. Concentric conductor : Copper wires with copper contact tape
5. Binding tape : Polyester tape
6. Outer sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

TIS 11 Part 101-2559

Classification

Maximum conductor temperature : 70°C
Rated voltage : 450/750 V
AC test voltage : 2,500 V

Application

For installation exposed or in raceway, dry or wet location or direct burial in ground.

B

Products code	Conductor			Thickness of insulation	Thickness of inner sheath	Concentric conductor		Thickness of outer sheath	Overall diameter	Insulation resistance at 70°C	Current rating		Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter			Cross-sectional area	No. & dia. of wires				on cable ladder	direct burial in ground		
	mm^2	(Min.)	mm (Approx.)	mm	mm (Approx.)	mm^2	No./mm	mm	mm (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
C6L5038X2011	25	7	6.33	1.3	1.2	16	32/0.80	2.0	29.5	0.0054	88	128	1,620	500
C6L5039X2011	35	7	7.60	1.3	1.2	16	32/0.80	2.0	32.5	0.0047	110	154	2,020	500
C6L5030Y2011	50	19	8.83	1.5	1.5	25	50/0.80	2.2	37.0	0.0046	133	181	2,740	500
C6L5031Y2011	70	19	10.58	1.5	1.5	35	70/0.80	2.2	41.0	0.0039	171	223	3,640	300
C6L5032Y2011	95	19	12.50	1.7	1.5	50	69/0.96	2.4	46.5	0.0038	207	267	4,900	300
C6L5033Y2011	120	37	14.07	1.7	1.8	70	72/1.11	2.6	51.5	0.0034	240	304	6,130	200
C6L5039Z2011	150	37	15.61	1.9	1.8	95	68/1.33	2.8	56.5	0.0034	278	342	7,570	200
C6L5035Y2011	185	37	17.50	2.1	2.0	95	68/1.33	3.0	62.5	0.0034	317	386	9,160	150
C6L5036Y2011	240	37	20.07	2.3	2.0	120	67/1.51	3.2	70.0	0.0033	374	448	11,740	150
C6L5037Y2011	300	61	22.50	2.5	2.2	150	68/1.67	3.4	77.5	0.0032	432	507	14,520	100

PART B COPPER CONDUCTOR

SECTION 1 : LOW VOLTAGE POWER CABLES PAGE NO.

IEC 60502-1 STANDARD

1. 0.6/1 kV CV
- 1 CORE - 0.6/1 kV XLPE Insulated and PVC Sheathed Power Cable B 52
- 2 CORES - 0.6/1 kV XLPE Insulated and PVC Sheathed Power Cable B 54
- 3 CORES - 0.6/1 kV XLPE Insulated and PVC Sheathed Power Cable B 56
- 4 CORES - 0.6/1 kV XLPE Insulated and PVC Sheathed Power Cable B 58

2. 0.6/1 kV CV-AWA
- 1 CORE - 0.6/1 kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 60

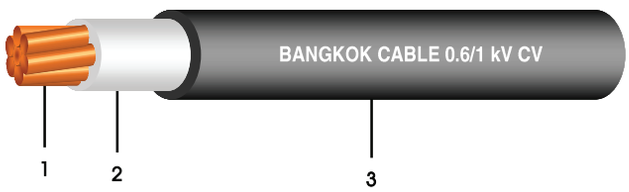
3. 0.6/1 kV CV-SWA
- 2 CORES - 0.6/1 kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 62
- 3 CORES - 0.6/1 kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 64
- 4 CORES - 0.6/1 kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 66

4. 0.6/1 kV NYY-SWA
- 2 CORES - 0.6/1 kV PVC Insulated and Double Sheathed, Round Type with Armour B 68
- 3 CORES - 0.6/1 kV PVC Insulated and Double Sheathed, Round Type with Armour B 69
- 4 CORES - 0.6/1 kV PVC Insulated and Double Sheathed, Round Type with Armour B 70

5. 0.6/1 kV NYCY
- 3 CORES - 0.6/1 kV PVC Insulated and Double Sheathed, Round Type with Concentric Conductor B 71

0.6/1 kV CV (FR-CV optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature : 90°C
Maximum circuit voltage : 1,000 V
AC test voltage : 3,500 V

Application

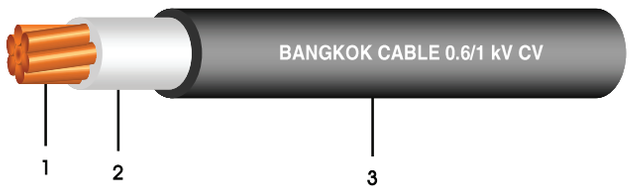
For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

B

Conductor			Thickness of 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 (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.4	6.5	12.1	2,550	27	33	50	500
2.5	7	2.01	0.7	1.4	7.0	7.41	2,100	38	43	60	500
4	7	2.55	0.7	1.4	7.5	4.61	1,700	51	56	80	500
6	7	3.12	0.7	1.4	8.0	3.08	1,450	66	71	110	500
10	6	3.72	0.7	1.4	9.0	1.83	1,250	92	94	150	500
16	6	4.69	0.7	1.4	9.5	1.15	1,000	124	120	210	500
25	6	5.90	0.9	1.4	11.5	0.727	1,050	166	155	310	500
35	6	6.95	0.9	1.4	12.5	0.524	900	206	185	410	500
50	6	8.33	1.0	1.4	14.0	0.387	850	259	225	550	500
70	12	9.73	1.1	1.4	15.5	0.268	800	321	275	750	500
95	15	11.43	1.1	1.5	17.5	0.193	700	391	330	1,020	500
120	18	12.95	1.2	1.5	19.5	0.153	650	455	375	1,270	500
150	18	14.27	1.4	1.6	21.5	0.124	700	525	425	1,560	500
185	30	15.98	1.6	1.6	23.5	0.0991	700	602	480	1,940	500
240	34	18.47	1.7	1.7	26.5	0.0754	650	711	560	2,520	500
300	34	20.68	1.8	1.8	29.0	0.0601	600	821	635	3,130	500
400	53	23.39	2.0	1.9	32.5	0.0470	600	988	725	3,980	500
500	53	26.67	2.2	2.0	36.5	0.0366	600	1,140	830	5,080	500
630	53	30.22	2.4	2.2	41.0	0.0283	550	1,323	945	6,540	400
800	53	34.00	2.6	2.3	45.5	0.0221	550	1,543	1,060	8,310	400

0.6/1 kV CV (FR-CV optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature : 90°C
Maximum circuit voltage : 1,000 V
AC test voltage : 3,500 V

Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

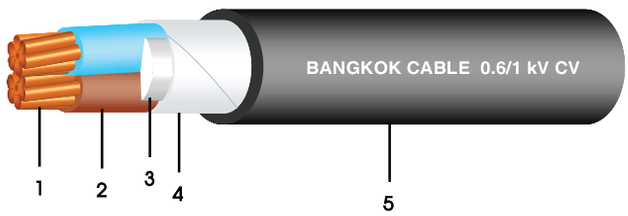
B

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.)
1.5	15.43	0.663	0.208	15.43
2.5	9.45	0.626	0.197	9.45
4	5.88	0.594	0.187	5.88
6	3.93	0.564	0.177	3.93
10	2.33	0.550	0.173	2.34
16	1.47	0.515	0.162	1.48
25	0.927	0.507	0.159	0.941
35	0.668	0.491	0.154	0.686
50	0.494	0.477	0.150	0.516
70	0.342	0.467	0.147	0.372
95	0.247	0.459	0.144	0.286
120	0.196	0.455	0.143	0.243
150	0.160	0.455	0.143	0.214
185	0.128	0.451	0.142	0.191
240	0.0988	0.446	0.140	0.171
300	0.0800	0.441	0.139	0.160
400	0.0642	0.439	0.138	0.152
500	0.0520	0.436	0.137	0.147
630	0.0427	0.434	0.136	0.143
800	0.0360	0.432	0.136	0.140

* Condition : Three cable laid in flat formation with a clearance between cables of 1.0 times the cable overall diameter

0.6/1 kV CV (FR-CV optional)*

2 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)
   Colour code : Blue, Brown
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

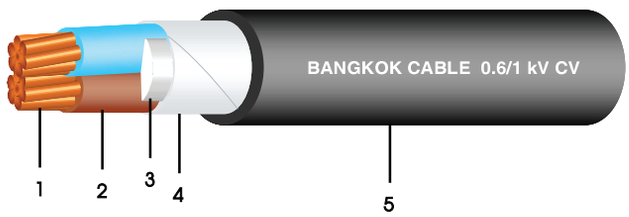
For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

B

Conductor			Thickness of 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 (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.8	11.0	12.1	2,550	24	33	120	500
2.5	7	2.01	0.7	1.8	11.5	7.41	2,100	33	44	160	500
4	7	2.55	0.7	1.8	12.5	4.61	1,700	44	58	200	500
6	7	3.12	0.7	1.8	14.0	3.08	1,450	57	73	260	500
10	6	3.72	0.7	1.8	15.0	1.83	1,250	78	97	360	500
16	6	4.69	0.7	1.8	17.0	1.15	1,000	105	125	510	500
25	6	5.90	0.9	1.8	20.5	0.727	1,050	135	165	760	500
35	6	6.95	0.9	1.8	22.5	0.524	900	168	195	1,000	500
50	6	8.33	1.0	1.8	26.0	0.387	850	212	235	1,330	500
70	12	9.73	1.1	1.8	29.5	0.268	800	263	290	1,820	500
95	15	11.43	1.1	1.9	33.0	0.193	700	321	350	2440	500
120	18	12.95	1.2	2.0	36.5	0.153	650	373	400	3,060	500
150	18	14.27	1.4	2.2	40.5	0.124	700	431	450	3,750	500
185	30	15.98	1.6	2.3	45.0	0.0991	700	493	505	4,700	400
240	34	18.47	1.7	2.5	51.0	0.0754	650	584	585	6,110	300
300	34	20.68	1.8	2.6	56.0	0.0601	600	674	665	7,550	250
400	53	23.39	2.0	2.9	63.5	0.0470	600	812	750	9,630	200

0.6/1 kV CV (FR-CV optional)*

2 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Blue, Brown
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Sheath	:	Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

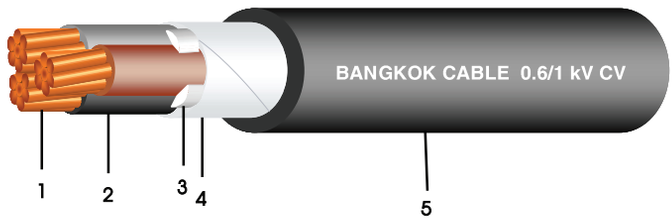
Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

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.)
1.5	15.43	0.332	0.104	15.43
2.5	9.45	0.308	0.0966	9.45
4	5.88	0.288	0.0906	5.88
6	3.93	0.273	0.0856	3.93
10	2.33	0.261	0.0819	2.33
16	1.47	0.248	0.0778	1.47
25	0.927	0.249	0.0782	0.931
35	0.669	0.241	0.0756	0.673
50	0.494	0.237	0.0746	0.500
70	0.343	0.235	0.0738	0.351
95	0.247	0.229	0.0718	0.258
120	0.197	0.227	0.0714	0.209
150	0.160	0.229	0.0720	0.176
185	0.129	0.230	0.0723	0.148
240	0.0996	0.227	0.0713	0.122
300	0.0809	0.225	0.0707	0.107
400	0.0653	0.225	0.0705	0.0961

0.6/1 kV CV (FR-CV optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Brown, Black, Grey
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Sheath	:	Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

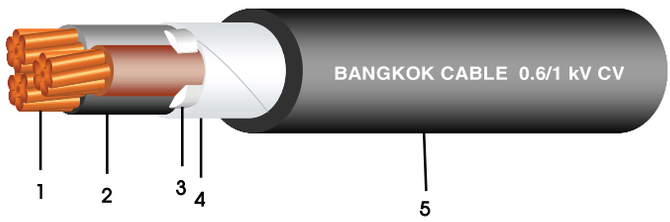
For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

B

Conductor			Thickness of 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 (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.53	0.7	1.8	11.5	12.1	2,550	21	28	140	500
2.5	7	1.98	0.7	1.8	12.0	7.41	2,100	29	37	190	500
4	7	2.49	0.7	1.8	13.5	4.61	1,700	38	49	250	500
6	7	3.09	0.7	1.8	14.5	3.08	1,450	49	61	330	500
10	6	3.72	0.7	1.8	16.0	1.83	1,250	68	82	470	500
16	6	4.69	0.7	1.8	18.0	1.15	1,000	91	105	670	500
25	6	5.90	0.9	1.8	21.5	0.727	1,050	116	135	1,020	500
35	6	6.95	0.9	1.8	24.0	0.524	900	144	165	1,350	500
50	6	8.33	1.0	1.8	27.5	0.387	850	180	200	1,800	500
70	12	9.73	1.1	1.9	31.5	0.268	800	224	245	2,500	500
95	15	11.43	1.1	2.0	35.5	0.193	700	271	295	3,370	500
120	18	12.95	1.2	2.1	39.5	0.153	650	315	335	4,220	500
150	18	14.27	1.4	2.3	43.5	0.124	700	363	380	5,190	400
185	30	15.98	1.6	2.4	48.5	0.0991	700	415	425	6,490	400
240	34	18.47	1.7	2.6	55.0	0.0754	650	490	495	8,440	300
300	34	20.68	1.8	2.7	60.5	0.0601	600	565	560	10,470	250
400	53	23.39	2.0	3.0	68.0	0.0470	600	678	630	13,350	200

0.6/1 kV CV (FR-CV optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Brown, Black, Grey
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Sheath	:	Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

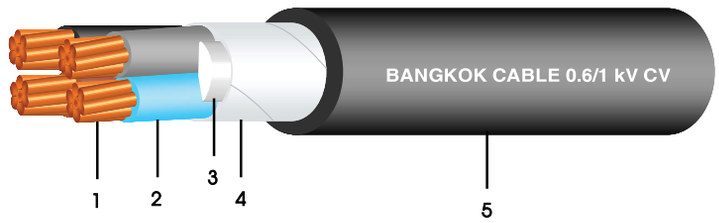
Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

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.)
1.5	15.43	0.332	0.104	15.43
2.5	9.45	0.308	0.0966	9.45
4	5.88	0.288	0.0906	5.88
6	3.93	0.273	0.0856	3.93
10	2.33	0.261	0.0819	2.33
16	1.47	0.248	0.0778	1.47
25	0.927	0.249	0.0782	0.931
35	0.669	0.241	0.0756	0.673
50	0.494	0.237	0.0746	0.500
70	0.343	0.235	0.0738	0.351
95	0.247	0.229	0.0718	0.258
120	0.197	0.227	0.0714	0.209
150	0.160	0.229	0.0720	0.176
185	0.129	0.230	0.0723	0.148
240	0.0996	0.227	0.0713	0.122
300	0.0809	0.225	0.0707	0.107
400	0.0653	0.225	0.0705	0.0961

0.6/1 kV CV (FR-CV optional)*

4 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)
   Colour code : Blue, Brown, Black, Grey
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature : 90°C
Maximum circuit voltage : 1,000 V
AC test voltage : 3,500 V

Application

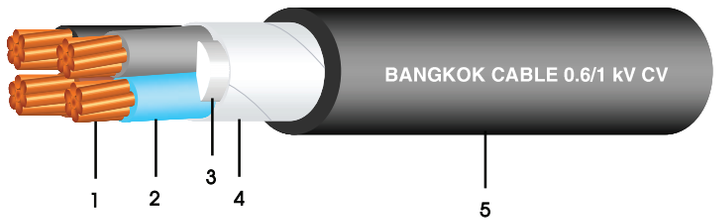
For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

B

Conductor			Thickness of 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 (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.8	12.0	12.1	2,550	21	28	170	500
2.5	7	2.01	0.7	1.8	13.0	7.41	2,100	29	37	230	500
4	7	2.55	0.7	1.8	14.5	4.61	1,700	38	49	300	500
6	7	3.12	0.7	1.8	16.0	3.08	1,450	49	61	410	500
10	6	3.72	0.7	1.8	17.5	1.83	1,250	68	82	590	500
16	6	4.69	0.7	1.8	19.5	1.15	1,000	91	105	860	500
25	6	5.90	0.9	1.8	24.0	0.727	1,050	116	135	1,300	500
35	6	6.95	0.9	1.8	26.5	0.524	900	144	165	1,740	500
50	6	8.33	1.0	1.8	30.5	0.387	850	180	200	2,320	500
70	12	9.73	1.1	2.0	35.0	0.268	800	224	245	3,250	500
95	15	11.43	1.1	2.1	39.0	0.193	700	271	295	4,390	500
120	18	12.95	1.2	2.3	44.0	0.153	650	315	335	5,520	400
150	18	14.27	1.4	2.4	48.5	0.124	700	363	380	6,780	400
185	30	15.98	1.6	2.6	54.0	0.0991	700	415	425	8,480	300
240	34	18.47	1.7	2.8	61.0	0.0754	650	490	495	11,040	200
300	34	20.68	1.8	3.0	67.5	0.0601	600	565	560	13,720	150
400	53	23.39	2.0	3.3	76.0	0.0470	600	678	630	17,490	150

0.6/1 kV CV (FR-CV optional)*

4 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Blue, Brown, Black, Grey
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Sheath	:	Polyvinyl chloride (PVC), Black colour, (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

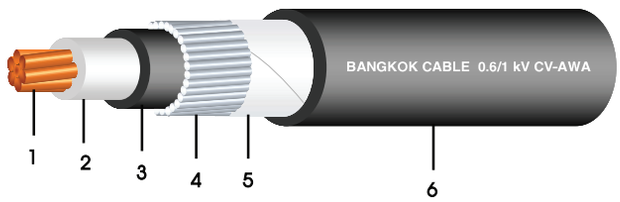
Application

For general purpose power distribution in dry or wet location, installation exposed in conduit or duct or direct burial in ground.

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.)
1.5	15.43	0.356	0.112	15.43
2.5	9.45	0.331	0.1039	9.45
4	5.88	0.311	0.0979	5.88
6	3.93	0.296	0.0929	3.93
10	2.33	0.284	0.0891	2.34
16	1.47	0.271	0.0851	1.47
25	0.927	0.272	0.0854	0.931
35	0.669	0.264	0.0829	0.674
50	0.494	0.260	0.0818	0.501
70	0.343	0.258	0.0810	0.352
95	0.247	0.252	0.0791	0.260
120	0.197	0.250	0.0787	0.212
150	0.160	0.252	0.0793	0.179
185	0.129	0.253	0.0795	0.151
240	0.0996	0.250	0.0786	0.127
300	0.0809	0.248	0.0780	0.112
400	0.0653	0.248	0.0778	0.1016

0.6/1 kV CV-AWA (FR-CV-AWA optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE), Natural colour
3. Innner sheath : Polyvinyl chloride (PVC), Black colour
4. Armour : Aluminium wires
5. Binding tape : Polyester tape
6. Outer sheath : Polyvinyl chloride (PVC), Black colour (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature : 90°C

Maximum circuit voltage : 1,000 V

AC test voltage : 3,500 V

Application

For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

B

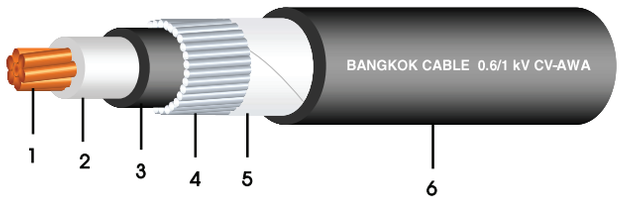
Conductor			Thickness	Thickness	Diameter	Diameter	Thickness	Overall	DC.	Current rating		Cable	Standard
Cross-sectional area	No. of wires	Diameter	of insulation	of inner sheath	under armour	of wire armour	of outer sheath	diameter	conductor resistance at 20°C	in free air at 40°C ambient	direct burial in ground at 30°C	weight	length
mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.0	5.5	0.8	1.8	11.5	12.1	28	34	150	500
2.5	7	2.01	0.7	1.0	6.0	0.8	1.8	12.0	7.41	37	45	170	500
4	7	2.55	0.7	1.0	6.5	0.8	1.8	12.5	4.61	49	58	190	500
6	7	3.12	0.7	1.0	7.0	0.8	1.8	13.0	3.08	61	73	220	500
10	6	3.72	0.7	1.0	8.0	0.8	1.8	13.5	1.83	82	96	270	500
16	6	4.69	0.7	1.0	9.0	0.8	1.8	14.5	1.15	105	120	350	500
25	6	5.90	0.9	1.0	10.5	0.8	1.8	16.5	0.727	140	160	470	500
35	6	6.95	0.9	1.0	11.5	0.8	1.8	17.5	0.524	175	190	630	500
50	6	8.33	1.0	1.0	13.0	1.25	1.8	20.0	0.387	210	225	790	500
70	12	9.73	1.1	1.0	15.0	1.25	1.8	21.5	0.268	265	280	1,020	500
95	15	11.43	1.1	1.0	16.5	1.25	1.8	23.5	0.193	325	335	1,360	500
120	18	12.95	1.2	1.0	18.0	1.6	1.8	26.0	0.153	380	385	1,640	500
150	18	14.27	1.4	1.0	20.0	1.6	1.8	27.5	0.124	430	430	1,960	500
185	30	15.98	1.6	1.0	22.0	1.6	1.8	30.0	0.0991	495	485	2,370	500
240	34	18.47	1.7	1.0	25.0	1.6	1.9	33.0	0.0754	585	565	3,000	500
300	34	20.68	1.8	1.0	27.5	1.6	1.9	35.5	0.0601	675	640	3,750	500
400	53	23.39	2.0	1.2	31.0	2.0	2.1	40.0	0.0470	770	730	4,720	500
500	53	26.67	2.2	1.2	34.5	2.0	2.2	44.0	0.0366	880	830	5,910	400
630	53	30.22	2.4	1.2	38.5	2.0	2.3	48.5	0.0283	985	940	7,590	400
800	53	34.00	2.6	1.4	43.5	2.5	2.5	54.5	0.0221	1,085	1,050	9,550	300

BCC BANGKOK CABLE

COPPER CONDUCTOR

0.6/1 kV CV-AWA (FR-CV-AWA optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE), Natural colour
3. Innner sheath	:	Polyvinyl chloride (PVC), Black colour
4. Armour	:	Aluminium wires
5. Binding tape	:	Polyester tape
6. Outer sheath	:	Polyvinyl chloride (PVC), Black colour (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

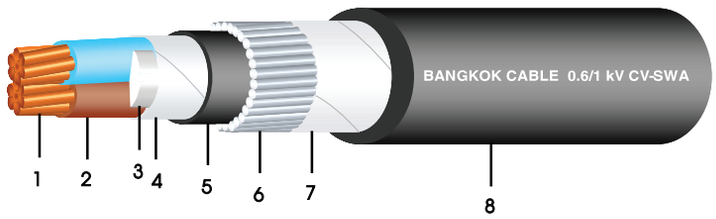
For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

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.)
1.5	15.43	0.777	0.244	15.43
2.5	9.45	0.734	0.231	9.45
4	5.88	0.696	0.219	5.88
6	3.93	0.661	0.208	3.93
10	2.33	0.631	0.198	2.34
16	1.47	0.599	0.188	1.48
25	0.927	0.579	0.182	0.945
35	0.668	0.569	0.179	0.692
50	0.494	0.549	0.172	0.523
70	0.342	0.532	0.167	0.381
95	0.247	0.522	0.164	0.296
120	0.196	0.513	0.161	0.254
150	0.159	0.505	0.159	0.225
185	0.128	0.499	0.157	0.202
240	0.0981	0.490	0.154	0.182
300	0.0791	0.487	0.153	0.172
400	0.0631	0.483	0.152	0.164
500	0.0508	0.476	0.149	0.158
630	0.0412	0.472	0.148	0.154
800	0.0343	0.470	0.148	0.151

* Condition : Three cable laid in flat formation with a clearance between cables of 1.0 times the cable overall diameter

0.6/1 kV CV-SWA (FR-CV-SWA optional)*

2 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor : Circular stranded or circular compacted stranded annealed copper
2. Insulation : Cross-linked polyethylene (XLPE)
   Colour code : Blue, Brown
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Innner sheath : Polyvinyl chloride (PVC), Black colour
6. Armour : Galvanized steel wires
7. Binding tape : Polyester tape
8. Outer sheath : Polyvinyl chloride (PVC), Black colour (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature : 90°C
Maximum circuit voltage : 1,000 V
AC test voltage : 3,500 V

Application

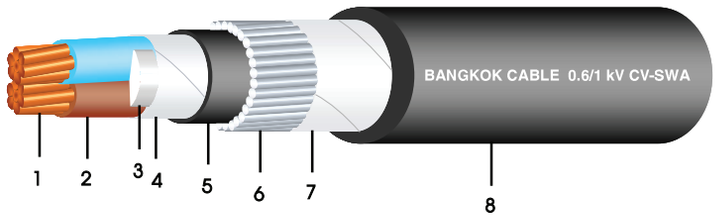
For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

B

Conductor			Thickness of 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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.0	9.0	0.8	1.8	15.0	12.1	26	33	340	500
2.5	7	2.01	0.7	1.0	10.0	0.8	1.8	15.5	7.41	35	44	390	500
4	7	2.55	0.7	1.0	11.0	0.8	1.8	16.5	4.61	46	57	560	500
6	7	3.12	0.7	1.0	12.0	0.8	1.8	18.0	3.08	59	72	660	500
10	6	3.72	0.7	1.0	13.5	1.25	1.8	20.0	1.83	80	96	800	500
16	6	4.69	0.7	1.0	15.0	1.25	1.8	22.0	1.15	105	125	1,000	500
25	6	5.90	0.9	1.0	18.5	1.6	1.8	26.5	0.727	140	160	1,520	500
35	6	6.95	0.9	1.0	20.5	1.6	1.8	28.5	0.524	170	195	1,830	500
50	6	8.33	1.0	1.0	24.0	1.6	1.8	32.0	0.387	210	235	2,310	500
70	12	9.73	1.1	1.0	27.5	1.6	2.0	35.5	0.268	260	285	3,180	500
95	15	11.43	1.1	1.2	31.5	2.0	2.1	40.5	0.193	320	345	4,020	500
120	18	12.95	1.2	1.2	35.0	2.0	2.2	44.0	0.153	370	390	4,820	400
150	18	14.27	1.4	1.2	38.5	2.0	2.3	48.0	0.124	420	435	6,110	400
185	30	15.98	1.6	1.4	43.0	2.5	2.5	54.5	0.0991	480	490	7,390	300
240	34	18.47	1.7	1.4	48.5	2.5	2.7	60.0	0.0754	560	565	9,090	250
300	34	20.68	1.8	1.6	54.0	2.5	2.8	66.0	0.0601	635	630	10,930	150
400	53	23.39	2.0	1.6	60.5	2.5	3.1	73.0	0.0470	725	705	13,400	100

0.6/1 kV CV-SWA (FR-CV-SWA optional)*

2 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Blue, Brown
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Innner sheath	:	Polyvinyl chloride (PVC), Black colour
6. Armour	:	Galvanized steel wires
7. Binding tape	:	Polyester tape
8. Outer sheath	:	Polyvinyl chloride (PVC), Black colour (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

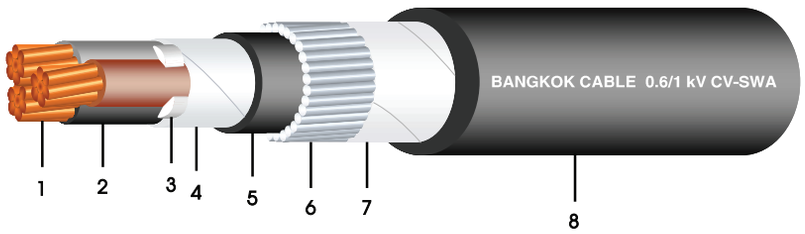
Application

For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

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.)
1.5	15.43	0.332	0.104	15.43
2.5	9.45	0.308	0.0966	9.45
4	5.88	0.288	0.0906	5.88
6	3.93	0.273	0.0856	3.93
10	2.33	0.261	0.0819	2.33
16	1.47	0.248	0.0778	1.47
25	0.927	0.249	0.0782	0.931
35	0.669	0.241	0.0756	0.673
50	0.494	0.237	0.0746	0.500
70	0.343	0.235	0.0738	0.351
95	0.247	0.229	0.0718	0.258
120	0.197	0.227	0.0714	0.209
150	0.160	0.229	0.0720	0.176
185	0.129	0.230	0.0723	0.148
240	0.0996	0.227	0.0713	0.122
300	0.0809	0.225	0.0707	0.107
400	0.0653	0.225	0.0705	0.0961

0.6/1 kV CV-SWA (FR-CV-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Brown, Black, Grey
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Innner sheath	:	Polyvinyl chloride (PVC), Black colour
6. Armour	:	Galvanized steel wires
7. Binding tape	:	Polyester tape
8. Outer sheath	:	Polyvinyl chloride (PVC), Black colour (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

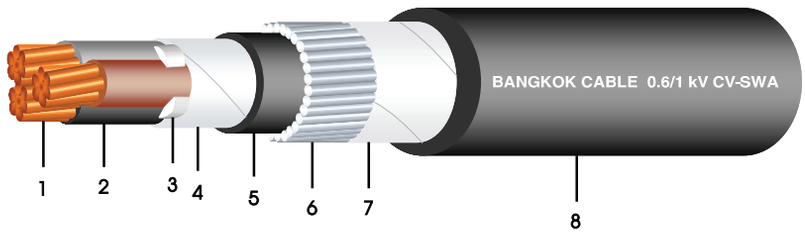
For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

B

Conductor			Thickness of 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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.0	9.5	0.8	1.8	15.5	12.1	22	28	370	500
2.5	7	2.01	0.7	1.0	10.5	0.8	1.8	16.5	7.41	29	38	440	500
4	7	2.55	0.7	1.0	11.5	0.8	1.8	17.5	4.61	39	49	630	500
6	7	3.12	0.7	1.0	13.0	0.8	1.8	18.5	3.08	50	62	750	500
10	6	3.72	0.7	1.0	14.0	1.25	1.8	21.0	1.83	67	83	930	500
16	6	4.69	0.7	1.0	16.5	1.25	1.8	23.5	1.15	89	105	1,320	500
25	6	5.90	0.9	1.0	20.0	1.6	1.8	27.5	0.727	120	140	1,810	500
35	6	6.95	0.9	1.0	22.0	1.6	1.8	30.0	0.524	145	170	2,250	500
50	6	8.33	1.0	1.0	26.0	1.6	1.9	34.0	0.387	175	200	2,850	500
70	12	9.73	1.1	1.0	30.0	2.0	2.0	39.0	0.268	220	245	3,990	500
95	15	11.43	1.1	1.2	33.5	2.0	2.2	43.0	0.193	275	295	5,050	400
120	18	12.95	1.2	1.2	37.5	2.0	2.3	47.0	0.153	315	335	6,490	400
150	18	14.27	1.4	1.4	41.5	2.5	2.5	52.5	0.124	360	375	7,780	300
185	30	15.98	1.6	1.4	46.5	2.5	2.6	57.5	0.0991	410	420	9,370	250
240	34	18.47	1.7	1.6	52.5	2.5	2.8	64.5	0.0754	480	480	11,770	200
300	34	20.68	1.8	1.6	58.0	2.5	3.0	70.0	0.0601	550	535	14,120	150
400	53	23.39	2.0	1.6	64.5	2.5	3.2	77.5	0.0470	625	595	18,330	100

0.6/1 kV CV-SWA (FR-CV-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Brown, Black, Grey
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Innner sheath	:	Polyvinyl chloride (PVC), Black colour
6. Armour	:	Galvanized steel wires
7. Binding tape	:	Polyester tape
8. Outer sheath	:	Polyvinyl chloride (PVC), Black colour (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

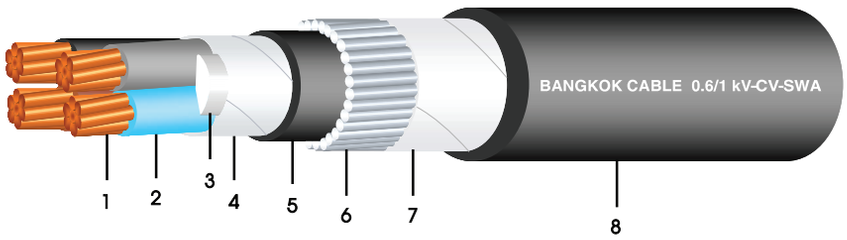
Application

For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

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.)
1.5	15.43	0.332	0.104	15.43
2.5	9.45	0.308	0.0966	9.45
4	5.88	0.288	0.0906	5.88
6	3.93	0.273	0.0856	3.93
10	2.33	0.261	0.0819	2.33
16	1.47	0.248	0.0778	1.47
25	0.927	0.249	0.0782	0.931
35	0.669	0.241	0.0756	0.673
50	0.494	0.237	0.0746	0.500
70	0.343	0.235	0.0738	0.351
95	0.247	0.229	0.0718	0.258
120	0.197	0.227	0.0714	0.209
150	0.160	0.229	0.0720	0.176
185	0.129	0.230	0.0723	0.148
240	0.0996	0.227	0.0713	0.122
300	0.0809	0.225	0.0707	0.107
400	0.0653	0.225	0.0705	0.0961

0.6/1 kV CV-SWA (FR-CV-SWA optional)*

4 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Blue, Brown, Black, Grey
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Innner sheath	:	Polyvinyl chloride (PVC), Black colour
6. Armour	:	Galvanized steel wires
7. Binding tape	:	Polyester tape
8. Outer sheath	:	Polyvinyl chloride (PVC), Black colour (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

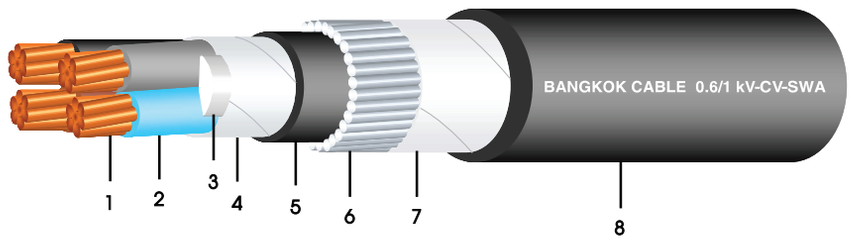
For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

B

Conductor			Thickness	Thickness	Diameter	Diameter	Thickness	Overall	DC.	Current rating		Cable	Standard
Cross-sectional area	No. of wires	Diameter	of insulation	of inner sheath	under armour	of wire armour	of outer sheath	diameter	conductor resistance at 20°C	in free air at 40°C ambient	direct burial in ground at 30°C	weight	length
mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.7	1.0	10.0	0.8	1.8	16.0	12.1	22	28	420	500
2.5	7	2.01	0.7	1.0	11.5	0.8	1.8	17.0	7.41	29	38	610	500
4	7	2.55	0.7	1.0	12.5	0.8	1.8	18.5	4.61	39	49	720	500
6	7	3.12	0.7	1.0	14.0	1.25	1.8	21.0	3.08	50	62	870	500
10	6	3.72	0.7	1.0	15.5	1.25	1.8	22.5	1.83	67	83	1,090	500
16	6	4.69	0.7	1.0	18.0	1.6	1.8	25.5	1.15	89	105	1,570	500
25	6	5.90	0.9	1.0	22.0	1.6	1.8	29.5	0.727	120	140	2,170	500
35	6	6.95	0.9	1.0	24.5	1.6	1.9	32.5	0.524	145	170	2,740	500
50	6	8.33	1.0	1.0	28.5	1.6	2.0	37.0	0.387	175	200	3,740	500
70	12	9.73	1.1	1.2	33.0	2.0	2.2	42.5	0.268	220	245	4,900	400
95	15	11.43	1.1	1.2	37.0	2.0	2.3	47.0	0.193	275	295	6,660	400
120	18	12.95	1.2	1.4	42.0	2.5	2.5	53.0	0.153	315	335	8,120	300
150	18	14.27	1.4	1.4	46.0	2.5	2.6	57.5	0.124	360	375	9,620	250
185	30	15.98	1.6	1.4	52.0	2.5	2.8	63.5	0.0991	410	420	11,750	200
240	34	18.47	1.7	1.6	58.5	2.5	3.0	70.5	0.0754	480	480	14,710	100
300	34	20.68	1.8	1.6	64.5	2.5	3.2	77.0	0.0601	550	535	18,660	100
400	53	23.39	2.0	1.8	72.5	3.15	3.5	87.0	0.0470	625	595	23,100	100

0.6/1 kV CV-SWA (FR-CV-SWA optional)*

4 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular stranded or circular compacted stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE)
Colour code	:	Blue, Brown, Black, Grey
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Innner sheath	:	Polyvinyl chloride (PVC), Black colour
6. Armour	:	Galvanized steel wires
7. Binding tape	:	Polyester tape
8. Outer sheath	:	Polyvinyl chloride (PVC), Black colour (Optional : FR-PVC)*

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

For general purpose power distribution in dry or wet location, best suitable for direct burial in ground.

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.)
1.5	15.43	0.356	0.112	15.43
2.5	9.45	0.331	0.1039	9.45
4	5.88	0.311	0.0979	5.88
6	3.93	0.296	0.0929	3.93
10	2.33	0.284	0.0891	2.34
16	1.47	0.271	0.0851	1.47
25	0.927	0.272	0.0854	0.931
35	0.669	0.264	0.0829	0.674
50	0.494	0.260	0.0818	0.501
70	0.343	0.258	0.0810	0.352
95	0.247	0.252	0.0791	0.260
120	0.197	0.250	0.0787	0.212
150	0.160	0.252	0.0793	0.179
185	0.129	0.253	0.0795	0.151
240	0.0996	0.250	0.0786	0.127
300	0.0809	0.248	0.0780	0.112
400	0.0653	0.248	0.0778	0.1016

0.6/1 kV NYY-SWA

2 CORES - PVC INSULATED AND DOUBLE SHEATHED, ROUND TYPE WITH ARMOUR



Construction

1. Conductor	:	Solid or circular stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC)
Colour code	:	Blue, Brown
3. Inner covering	:	Polyvinyl chloride (PVC), Black colour
4. Armour	:	Galvanized steel wires
5. Binding tape	:	Polyester tape
6. Outer sheath	:	Polyvinyl chloride (PVC), Black colour

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 70°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

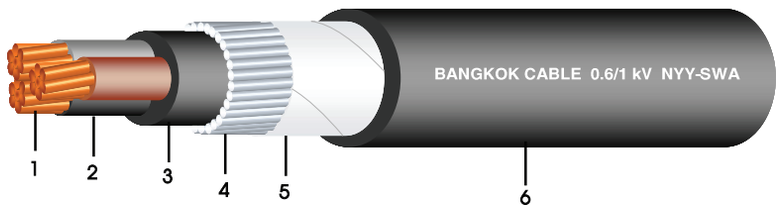
For installation in underground or direct burial in ground.

B

Conductor			Thickness of insulation	Thickness of inner covering	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter										
mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m/drum
1.5	1	1.36	0.8	1.0	9.0	0.8	1.8	15.0	12.1	20	380	500
1.5	7	1.59	0.8	1.0	9.0	0.8	1.8	15.0	12.1	20	400	500
2.5	1	1.75	0.8	1.0	9.5	0.8	1.8	15.5	7.41	27	440	500
2.5	7	2.01	0.8	1.0	10.0	0.8	1.8	16.0	7.41	27	460	500
4	1	2.21	1.0	1.0	11.5	1.25	1.8	18.5	4.61	36	670	500
4	7	2.55	1.0	1.0	12.0	1.25	1.8	19.0	4.61	36	710	500
6	7	3.12	1.0	1.0	13.5	1.25	1.8	20.0	3.08	46	820	500
10	7	3.98	1.0	1.0	15.0	1.25	1.8	22.0	1.83	63	1,000	500
16	7	5.01	1.0	1.0	17.0	1.25	1.8	24.0	1.15	84	1,240	500
25	7	6.33	1.2	1.0	20.5	1.6	1.8	28.5	0.727	110	1,840	500
35	7	7.60	1.2	1.0	23.0	1.6	1.8	31.0	0.524	135	2,220	500
50	19	8.83	1.4	1.0	26.5	1.6	1.9	34.5	0.387	165	2,750	500
70	19	10.58	1.4	1.0	30.0	2.0	2.1	39.0	0.268	205	3,740	500
95	19	12.50	1.6	1.2	35.0	2.0	2.2	44.5	0.193	250	4,820	400
120	37	14.07	1.6	1.2	38.0	2.0	2.3	48.0	0.153	290	5,660	400
150	37	15.61	1.8	1.2	42.0	2.5	2.5	53.5	0.124	330	7,170	300
185	37	17.50	2.0	1.4	47.0	2.5	2.6	58.5	0.0991	375	8,640	250
240	37	20.07	2.2	1.4	53.5	2.5	2.8	65.0	0.0754	435	10,680	200
300	61	22.50	2.4	1.6	59.5	2.5	3.0	71.5	0.0601	495	12,890	100
400	61	25.38	2.6	1.6	66.0	2.5	3.2	79.0	0.0470	560	15,780	100

0.6/1 kV NYY-SWA

3 CORES - PVC INSULATED AND DOUBLE SHEATHED, ROUND TYPE WITH ARMOUR



Construction

1. Conductor	:	Solid or circular stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC)
Colour code	:	Brown, Black, Grey
3. Inner covering	:	Polyvinyl chloride (PVC), Black colour
4. Armour	:	Galvanized steel wires
5. Binding tape	:	Polyester tape
6. Outer sheath	:	Polyvinyl chloride (PVC), Black colour

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 70°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

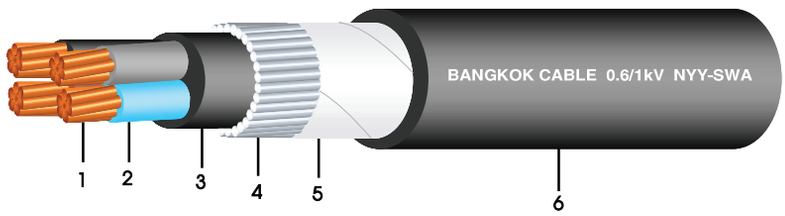
For installation in underground or direct burial in ground.

B

Conductor			Thickness of insulation	Thickness of inner covering	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter										
mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m/drum
1.5	1	1.36	0.8	1.0	9.5	0.8	1.8	15.5	12.1	17	420	500
1.5	7	1.59	0.8	1.0	10.0	0.8	1.8	15.5	12.1	17	430	500
2.5	1	1.75	0.8	1.0	10.5	0.8	1.8	16.0	7.41	23	480	500
2.5	7	2.01	0.8	1.0	11.0	0.8	1.8	16.5	7.41	23	510	500
4	1	2.21	1.0	1.0	12.0	1.25	1.8	19.0	4.61	31	740	500
4	7	2.55	1.0	1.0	13.0	1.25	1.8	19.5	4.61	31	780	500
6	7	3.12	1.0	1.0	14.0	1.25	1.8	21.0	3.08	39	920	500
10	7	3.98	1.0	1.0	16.0	1.25	1.8	23.0	1.83	54	1,150	500
16	7	5.01	1.0	1.0	18.5	1.6	1.8	26.0	1.15	72	1,600	500
25	7	6.33	1.2	1.0	22.0	1.6	1.8	30.0	0.727	95	2,160	500
35	7	7.60	1.2	1.0	25.0	1.6	1.9	32.5	0.524	115	2,660	500
50	19	8.83	1.4	1.0	28.5	2.0	2.0	37.5	0.387	140	3,580	500
70	19	10.58	1.4	1.2	32.5	2.0	2.1	42.0	0.268	175	4,610	400
95	19	12.50	1.6	1.2	37.5	2.0	2.3	47.5	0.193	215	5,910	400
120	37	14.07	1.6	1.2	41.0	2.5	2.4	52.0	0.153	250	7,440	300
150	37	15.61	1.8	1.4	46.0	2.5	2.6	57.0	0.124	285	8,920	250
185	37	17.50	2.0	1.4	50.5	2.5	2.7	62.5	0.0991	325	10,660	200
240	37	20.07	2.2	1.6	58.0	2.5	2.9	70.0	0.0754	380	13,410	150
300	61	22.50	2.4	1.6	64.0	2.5	3.1	76.5	0.0601	430	16,140	100
400	61	25.38	2.6	1.8	71.5	3.15	3.4	86.0	0.0470	485	21,000	100

0.6/1 kV NYY-SWA

4 CORES - PVC INSULATED AND DOUBLE SHEATHED, ROUND TYPE WITH ARMOUR



Construction

1. Conductor	:	Solid or circular stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC)
Colour code	:	Blue, Brown, Black, Grey
3. Inner covering	:	Polyvinyl chloride (PVC), Black colour
4. Armour	:	Galvanized steel wires
5. Binding tape	:	Polyester tape
6. Outer sheath	:	Polyvinyl chloride (PVC), Black colour

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature	: 70°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application

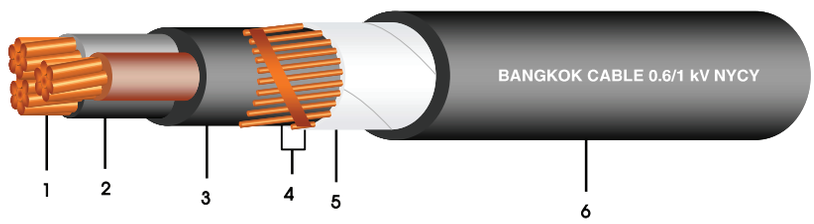
For installation in underground or direct burial in ground.

B

Conductor			Thickness of insulation	Thickness of inner covering	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter										
mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m/drum
1.5	1	1.36	0.8	1.0	10.0	0.8	1.8	16.0	12.1	17	470	500
1.5	7	1.59	0.8	1.0	10.5	0.8	1.8	16.5	12.1	17	490	500
2.5	1	1.75	0.8	1.0	11.0	1.25	1.8	18.0	7.41	23	660	500
2.5	7	2.01	0.8	1.0	11.5	1.25	1.8	18.5	7.41	23	700	500
4	1	2.21	1.0	1.0	13.5	1.25	1.8	20.0	4.61	31	850	500
4	7	2.55	1.0	1.0	14.0	1.25	1.8	21.0	4.61	31	900	500
6	7	3.12	1.0	1.0	15.5	1.25	1.8	22.5	3.08	39	1,060	500
10	7	3.98	1.0	1.0	17.5	1.6	1.8	25.5	1.83	54	1,490	500
16	7	5.01	1.0	1.0	20.0	1.6	1.8	28.0	1.15	72	1,890	500
25	7	6.33	1.2	1.0	24.5	1.6	1.9	32.5	0.727	95	2,590	500
35	7	7.60	1.2	1.0	27.5	1.6	2.0	35.5	0.524	115	3,220	500
50	19	8.83	1.4	1.2	32.0	2.0	2.1	41.0	0.387	140	4,400	400
70	19	10.58	1.4	1.2	36.0	2.0	2.3	46.0	0.268	175	5,640	400
95	19	12.50	1.6	1.2	42.0	2.5	2.5	53.0	0.193	215	7,750	300
120	37	14.07	1.6	1.4	46.0	2.5	2.6	57.5	0.153	250	9,220	250
150	37	15.61	1.8	1.4	51.0	2.5	2.7	62.5	0.124	285	10,950	200
185	37	17.50	2.0	1.6	57.0	2.5	2.9	69.0	0.0991	325	13,300	150
240	37	20.07	2.2	1.6	64.5	2.5	3.1	77.0	0.0754	380	16,660	100
300	61	22.50	2.4	1.6	71.0	3.15	3.4	85.5	0.0601	430	21,120	100
400	61	25.38	2.6	1.8	80.0	3.15	3.7	95.0	0.0470	485	26,170	100

0.6/1 kV NYCY

3 CORES - PVC INSULATED AND DOUBLE SHEATHED, ROUND TYPE WITH CONCENTRIC CONDUCTOR



Construction

1. Conductor : Circular stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC)
   Colour code : Brown, Black, Grey
3. Inner covering : Polyvinyl chloride (PVC), Black colour
4. Concentric conductor : Copper wires with copper contact tape
5. Binding tape : Polyester tape
6. Outer sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

IEC 60502-1

Classification

Maximum conductor temperature : 70°C
Rated voltage : 1,000 V
AC test voltage : 3,500 V

Application

For installation exposed or in raceway, dry or wet location or direct burial in ground.

Conductor			Thickness of insulation	Thickness of inner covering	Diameter over inner covering	Concentric conductor		Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter				Cross-sectional area	No. & dia. of wires						
mm^2	(Min)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm^2	No./mm	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m/drum
1.5	7	1.59	0.8	1.0	10.0	1.5	21/0.30	1.8	14.5	12.1	17	270	500
2.5	7	2.01	0.8	1.0	11.0	2.5	20/0.40	1.8	16.0	7.41	22	340	500
4	7	2.55	1.0	1.0	13.0	4	20/0.50	1.8	18.0	4.61	30	460	500
6	7	3.12	1.0	1.0	14.0	6	18/0.66	1.8	19.5	3.08	38	590	500
10	7	3.98	1.0	1.0	16.0	10	20/0.80	1.8	22.0	1.83	50	810	500
16	7	5.01	1.0	1.0	18.5	16	32/0.80	1.8	24.5	1.15	65	1,120	500
25	7	6.33	1.2	1.0	22.0	16	32/0.80	1.8	28.0	0.727	90	1,540	500
35	7	7.60	1.2	1.0	25.0	16	32/0.80	1.8	31.0	0.524	110	1,930	500
50	19	8.83	1.4	1.0	28.5	25	50/0.80	1.9	34.5	0.387	135	2,560	500
70	19	10.58	1.4	1.2	32.5	35	70/0.80	2.1	39.5	0.268	165	3,520	400
95	19	12.50	1.6	1.2	37.5	50	69/0.96	2.2	45.0	0.193	205	4,740	400
120	37	14.07	1.6	1.2	41.0	70	72/1.11	2.3	49.0	0.153	240	5,850	300
150	37	15.51	1.8	1.4	46.0	70	72/1.11	2.5	54.0	0.124	275	7,070	250
150	37	15.51	1.8	1.4	46.0	95	68/1.33	2.5	54.5	0.124	275	7,320	250
185	37	17.50	2.0	1.4	50.5	95	68/1.33	2.7	60.0	0.0991	315	8,820	200
240	37	20.07	2.2	1.6	58.0	120	67/1.51	2.9	68.0	0.0754	370	11,430	150
300	61	22.50	2.4	1.6	64.0	150	68/1.67	3.1	74.5	0.0601	425	14,090	100
400	61	25.38	2.6	1.8	71.5	185	48/2.21	3.4	84.5	0.0470	490	17,880	100
400	61	25.38	2.6	1.8	71.5	240	50/2.47	3.4	85.0	0.0470	490	18,430	100

PART B COPPER CONDUCTOR

SECTION 2 : MEDIUM VOLTAGE POWER CABLES PAGE NO.

IEC 60502-1 STANDARD

1. 1.8/3(3.6) kV CV
- 1 CORE - 1.8/3(3.6) kV XLPE Insulated and PVC Sheathed Power Cable B 75
- 3 CORES - 1.8/3(3.6) kV XLPE Insulated and PVC Sheathed Power Cable B 77

2. 1.8/3(3.6) kV CV-AWA
- 1 CORE - 1.8/3(3.6) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 79

3. 1.8/3(3.6) kV CV-SWA
- 3 CORES - 1.8/3(3.6) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 81

IEC 60502-2 STANDARD

4. 3.6/6(7.2) kV CV
- 1 CORE - 3.6/6(7.2) kV XLPE Insulated and PVC Sheathed Power Cable B 83
- 3 CORES - 3.6/6(7.2) kV XLPE Insulated and PVC Sheathed Power Cable B 85

5. 3.6/6(7.2) kV CV-AWA
- 1 CORE - 3.6/6(7.2) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 87

6. 3.6/6(7.2) kV CV-SWA
- 3 CORES - 3.6/6(7.2) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 89

7. 6/10(12) kV CV
- 1 CORE - 6/10(12) kV XLPE Insulated and PVC Sheathed Power Cable B 91
- 3 CORES - 6/10(12) kV XLPE Insulated and PVC Sheathed Power Cable B 93

8. 6/10(12) kV CV-AWA
- 1 CORE - 6/10(12) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 95

9. 6/10(12) kV CV-SWA
- 3 CORES - 6/10(12) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 97

PART B COPPER CONDUCTOR

SECTION 2 : MEDIUM VOLTAGE POWER CABLES PAGE NO.

IEC 60502-2 STANDARD

10. 8.7/15(17.5) kV CV
1 CORE - 8.7/15(17.5) kV XLPE Insulated and PVC Sheathed Power Cable B 99
3 CORES - 8.7/15(17.5) kV XLPE Insulated and PVC Sheathed Power Cable B 101

11. 8.7/15(17.5) kV CV-AWA
1 CORE - 8.7/15(17.5) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 103

12. 8.7/15(17.5) kV CV-SWA
3 CORES - 8.7/15(17.5) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 105

13. 12/20(24) kV CV
1 CORE - 12/20(24) kV XLPE Insulated and PVC Sheathed Power Cable B 107
3 CORES - 12/20(24) kV XLPE Insulated and PVC Sheathed Power Cable B 109

14. 12/20(24) kV CV-AWA
1 CORE - 12/20(24) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 111

15. 12/20(24) kV CV-SWA
3 CORES - 12/20(24) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 113

16. 18/30(36) kV CV
1 CORE - 18/30(36) kV XLPE Insulated and PVC Sheathed Power Cable B 115
3 CORES - 18/30(36) kV XLPE Insulated and PVC Sheathed Power Cable B 117

17. 18/30(36) kV CV-AWA
1 CORE - 18/30(36) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 119

18. 18/30(36) kV CV-SWA
3 CORES - 18/30(36) kV XLPE Insulated and PVC Sheathed Power Cable with Armour B 121

PART B COPPER CONDUCTOR

SECTION 2 : MEDIUM VOLTAGE POWER CABLES PAGE NO.

ICEA S-93-639 STANDARD

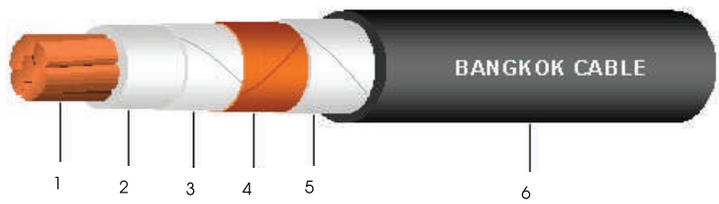
1. 15 kV CV
- 1 CORE - 15 kV XLPE Insulated and PVC Sheathed Power Cable (100% Insulation Levels) B 123
- 1 CORE - 15 kV XLPE Insulated and PVC Sheathed Power Cable (133% Insulation Levels) B 125

2. 25 kV CV
- 1 CORE - 25 kV XLPE Insulated and PVC Sheathed Power Cable (100% Insulation Levels) B 127
- 1 CORE - 25 kV XLPE Insulated and PVC Sheathed Power Cable (133% Insulation Levels) B 129

3. 35 kV CV
- 1 CORE - 35 kV XLPE Insulated and PVC Sheathed Power Cable (100% Insulation Levels) B 131
- 1 CORE - 35 kV XLPE Insulated and PVC Sheathed Power Cable (133% Insulation Levels) B 133

1.8/3(3.6) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Circular compact stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE) compound
3. Binding tape	:	Polyester or Spunbond tape
4. Metallic screen	:	Copper tape
5. Binding tape	:	Polyester tape
6. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 3.6 kV
AC test voltage	: 6.5 kV

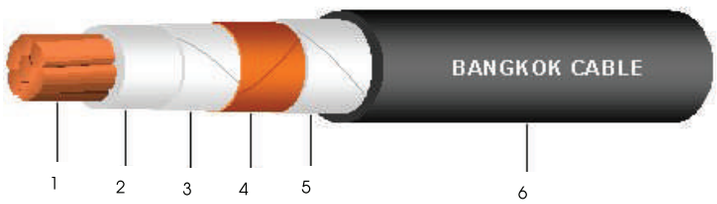
Application

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
10	6	3.72	2.0	8.1	1.4	12	1.83	3,210	100	90	240	500
16	6	4.69	2.0	9.1	1.4	13	1.15	2,720	130	120	310	500
25	6	5.90	2.0	10.3	1.4	15	0.727	2,300	170	150	410	500
35	6	6.95	2.0	11.4	1.4	16	0.524	2,020	200	180	510	500
50	6	8.33	2.0	12.7	1.4	17	0.387	1,750	250	220	640	500
70	12	9.73	2.0	14.1	1.5	19	0.268	1,540	310	260	860	500
95	15	11.43	2.0	15.8	1.5	20	0.193	1,350	380	320	1,130	500
120	18	12.95	2.0	17.4	1.6	22	0.153	1,210	440	360	1,380	500
150	18	14.27	2.0	18.7	1.6	23	0.124	1,110	500	400	1,660	500
185	30	15.98	2.0	20.4	1.7	25	0.0991	1,010	580	460	2,030	500
240	34	18.47	2.0	22.9	1.8	28	0.0754	890	690	530	2,600	500
300	34	20.68	2.0	25.1	1.8	30	0.0601	800	800	600	3,190	500
400	53	23.39	2.0	27.8	1.9	33	0.0470	720	940	685	4,010	500
500	53	26.67	2.2	31.5	2.0	37	0.0366	690	1100	780	5,090	300
630	53	30.22	2.4	35.4	2.2	41	0.0283	670	1275	890	6,520	300
800	53	34.00	2.6	39.6	2.3	46	0.0221	650	1465	1,000	8,260	250

1.8/3(3.6) kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Circular compact stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE) compound
3. Binding tape	:	Polyester or Spunbond tape
4. Metallic screen	:	Copper tape
5. Binding tape	:	Polyester tape
6. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 3.6 kV
AC test voltage	: 6.5 kV

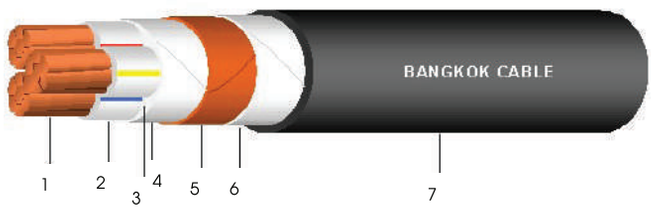
Application

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.)
10	2.33	0.608	0.191	2.34
16	1.47	0.577	0.181	1.48
25	0.927	0.560	0.176	0.944
35	0.668	0.540	0.170	0.690
50	0.494	0.516	0.162	0.520
70	0.342	0.507	0.159	0.377
95	0.247	0.485	0.152	0.290
120	0.196	0.479	0.151	0.247
150	0.159	0.469	0.147	0.217
185	0.127	0.463	0.145	0.193
240	0.0974	0.457	0.143	0.173
300	0.0782	0.448	0.141	0.161
400	0.0620	0.442	0.139	0.152
500	0.0492	0.439	0.138	0.146
630	0.0393	0.434	0.136	0.142
800	0.0321	0.434	0.136	0.140

1.8/3(3.6) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Circular compact stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE) compound
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester or Spunbond tape
5. Metallic screen	:	Copper tape
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 3.6 kV
AC test voltage	: 6.5 kV

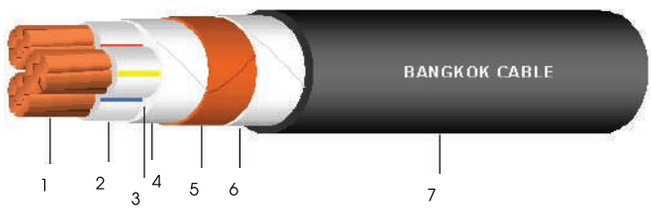
Application

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
10	6	3.72	2.0	8.1	1.8	23	1.83	3,210	70	80	690	500
16	6	4.69	2.0	9.1	1.8	25	1.15	2,720	90	110	910	500
25	6	5.90	2.0	10.3	1.8	27	0.727	2,300	120	140	1,240	500
35	6	6.95	2.0	11.4	1.8	30	0.524	2,020	150	160	1,570	500
50	6	8.33	2.0	12.7	1.9	33	0.387	1,750	180	195	2,010	500
70	12	9.73	2.0	14.1	2.0	36	0.268	1,540	230	240	2,700	500
95	15	11.43	2.0	15.8	2.2	40	0.193	1,350	280	285	3,580	500
120	18	12.95	2.0	17.4	2.3	44	0.153	1,210	320	320	4,390	500
150	18	14.27	2.0	18.7	2.4	47	0.124	1,110	370	360	5,290	300
185	30	15.98	2.0	20.4	2.5	51	0.0991	1,010	420	410	6,470	300
240	34	18.47	2.0	22.9	2.7	57	0.0754	890	500	470	8,330	250
300	34	20.68	2.0	25.1	2.8	62	0.0601	800	570	530	10,250	200
400	53	23.39	2.0	27.8	3.1	68	0.0470	720	660	600	12,930	150

1.8/3(3.6) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Circular compact stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE) compound
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester or Spunbond tape
5. Metallic screen	:	Copper tape
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 3.6 kV
AC test voltage	: 6.5 kV

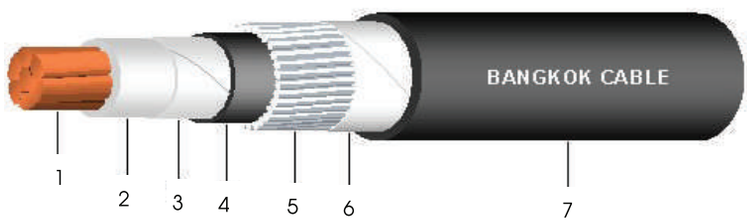
Application

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.)
10	2.33	0.344	0.108	2.34
16	1.47	0.321	0.101	1.47
25	0.927	0.300	0.0943	0.932
35	0.668	0.288	0.0904	0.675
50	0.494	0.273	0.0858	0.501
70	0.342	0.263	0.0826	0.352
95	0.247	0.253	0.0796	0.260
120	0.197	0.248	0.0778	0.211
150	0.160	0.243	0.0762	0.177
185	0.129	0.237	0.0746	0.149
240	0.0994	0.232	0.0728	0.123
300	0.0808	0.227	0.0714	0.108
400	0.0653	0.223	0.0701	0.0958

1.8/3(3.6) kV CV-AWA (CE-AWA optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular compact stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE) compound
3. Binding tape	:	Polyester or Spunbond tape
4. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
5. Armour	:	Aluminium wires
6. Binding tape	:	Polyester tape
7. Outer sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 3.6 kV
AC test voltage	: 6.5 kV

Application

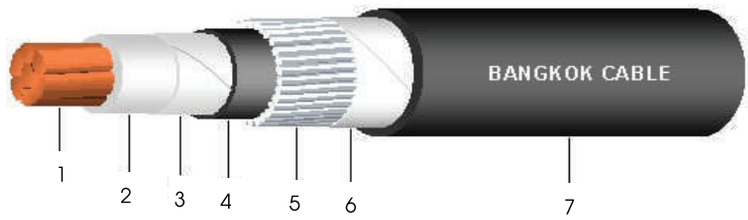
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
10	6	3.72	2.0	8.1	1.0	10.5	0.8	1.8	17	1.83	100	90	380	500
16	6	4.69	2.0	9.1	1.0	11.5	1.25	1.8	19	1.15	130	120	510	500
25	6	5.90	2.0	10.3	1.0	13.0	1.25	1.8	20	0.727	170	150	620	500
35	6	6.95	2.0	11.4	1.0	14.0	1.25	1.8	21	0.524	210	180	740	500
50	6	8.33	2.0	12.7	1.0	15.5	1.25	1.8	22	0.387	255	220	890	500
70	12	9.73	2.0	14.1	1.0	16.5	1.6	1.8	24	0.268	320	270	1,160	500
95	15	11.43	2.0	15.8	1.0	18.5	1.6	1.8	26	0.193	390	320	1,460	500
120	18	12.95	2.0	17.4	1.0	20.0	1.6	1.8	28	0.153	455	360	1,720	500
150	18	14.27	2.0	18.7	1.0	21.5	1.6	1.8	29	0.124	520	410	2,010	500
185	30	15.98	2.0	20.4	1.0	23.0	1.6	1.9	31	0.0991	595	460	2,420	500
240	34	18.47	2.0	22.9	1.0	25.5	1.6	1.9	33	0.0754	710	540	3,010	500
300	34	20.68	2.0	25.1	1.0	27.5	2.0	2.0	36	0.0601	820	610	3,730	500
400	53	23.39	2.0	27.8	1.2	31.0	2.0	2.2	40	0.0470	950	690	4,660	500
500	53	26.67	2.2	31.5	1.2	34.5	2.0	2.3	44	0.0366	1,110	790	5,820	300
630	53	30.22	2.4	35.4	1.2	38.5	2.5	2.4	49	0.0283	1,300	900	7,450	300
800	53	34.00	2.6	39.6	1.4	43.0	2.5	2.6	54	0.0221	1,490	1010	9,370	250

1.8/3(3.6) kV CV-AWA (CE-AWA optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular compact stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE) compound
3. Binding tape	:	Polyester or Spunbond tape
4. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
5. Armour	:	Aluminium wires
6. Binding tape	:	Polyester tape
7. Outer sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 3.6 kV
AC test voltage	: 6.5 kV

Application

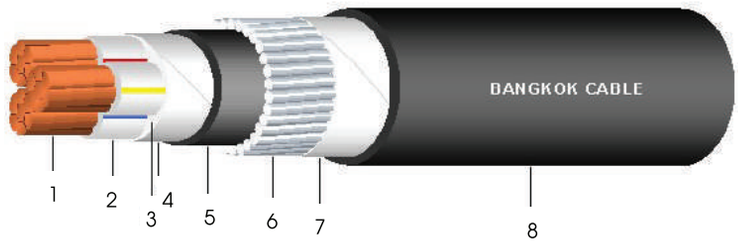
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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.)
10	2.33	0.677	0.213	2.34
16	1.47	0.653	0.205	1.48
25	0.927	0.618	0.194	0.947
35	0.668	0.595	0.187	0.694
50	0.494	0.568	0.178	0.525
70	0.342	0.554	0.174	0.384
95	0.246	0.538	0.169	0.299
120	0.196	0.528	0.166	0.256
150	0.159	0.515	0.162	0.227
185	0.127	0.506	0.159	0.204
240	0.0973	0.490	0.154	0.182
300	0.0781	0.484	0.152	0.171
400	0.0617	0.481	0.151	0.163
500	0.0490	0.474	0.149	0.157
630	0.0390	0.470	0.148	0.153
800	0.0317	0.466	0.146	0.150

1.8/3(3.6) kV CV-SWA (CE-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular compact stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE) compound
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester or Spunbond tape
5. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
6. Armour	:	Galvanized steel wires
7. Binding tape	:	Polyester tape
8. Outer sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 3.6 kV
AC test voltage	: 6.5 kV

Application

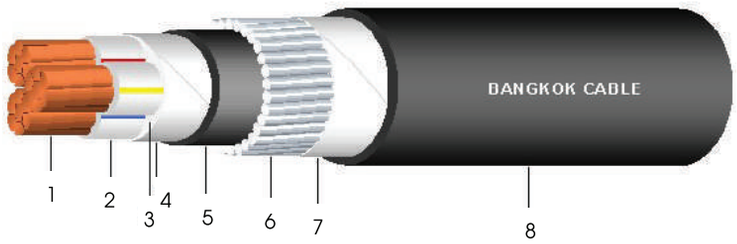
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Approx.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
10	6	3.72	2.0	8.1	1.0	20.0	1.6	1.8	28	1.83	70	80	1,440	500
16	6	4.69	2.0	9.1	1.0	22.0	1.6	1.9	30	1.15	95	105	1,740	500
25	6	5.90	2.0	10.3	1.0	25.0	1.6	1.9	33	0.727	120	135	2,160	500
35	6	6.95	2.0	11.4	1.0	27.0	2.0	2.0	36	0.524	150	160	2,820	500
50	6	8.33	2.0	12.7	1.2	30.5	2.0	2.2	40	0.387	180	190	3,480	500
70	12	9.73	2.0	14.1	1.2	33.5	2.0	2.3	43	0.268	230	230	4,290	500
95	15	11.43	2.0	15.8	1.2	37.0	2.5	2.4	48	0.193	280	280	5,700	300
120	18	12.95	2.0	17.4	1.4	41.0	2.5	2.5	52	0.153	320	320	6,780	300
150	18	14.27	2.0	18.7	1.4	44.0	2.5	2.6	55	0.124	360	350	7,850	300
185	30	15.98	2.0	20.4	1.4	47.5	2.5	2.8	59	0.0991	415	400	9,240	200
240	34	18.47	2.0	22.9	1.6	53.5	2.5	3.0	65	0.0754	485	455	11,510	200
300	34	20.68	2.0	25.1	1.6	58.0	2.5	3.1	70	0.0601	550	510	13,710	150
400	53	23.39	2.0	27.8	1.6	64.0	3.15	3.4	78	0.0470	620	560	17,560	100

1.8/3(3.6) kV CV-SWA (CE-SWA optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE WITH ARMOUR



Construction

1. Conductor	:	Circular compact stranded annealed copper
2. Insulation	:	Cross-linked polyethylene (XLPE) compound
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester or Spunbond tape
5. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
6. Armour	:	Galvanized steel wires
7. Binding tape	:	Polyester tape
8. Outer sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-1

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 3.6 kV
AC test voltage	: 6.5 kV

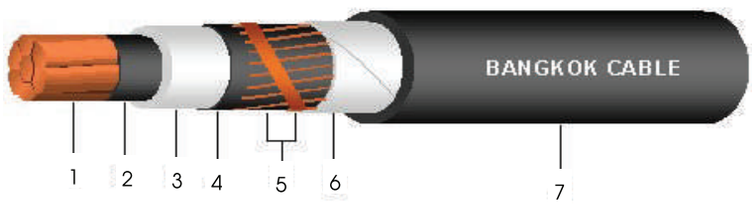
Application

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.)
10	2.33	0.344	0.108	2.34
16	1.47	0.321	0.101	1.47
25	0.927	0.300	0.0943	0.932
35	0.668	0.288	0.0904	0.675
50	0.494	0.273	0.0858	0.501
70	0.342	0.263	0.0826	0.352
95	0.247	0.253	0.0796	0.260
120	0.197	0.248	0.0778	0.211
150	0.160	0.243	0.0762	0.177
185	0.129	0.237	0.0746	0.149
240	0.0994	0.232	0.0728	0.123
300	0.0808	0.227	0.0714	0.108
400	0.0653	0.223	0.0701	0.0958

3.6/6(7.2) 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	: 7.2 kV
AC test voltage	: 12.5 kV

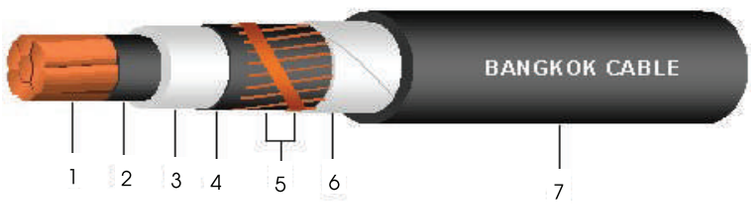
Application

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
10	6	3.72	2.5	10.3	10	1.4	17	1.83	2,870	100	90	400	500
16	6	4.69	2.5	11.3	10	1.5	18	1.15	2,520	130	120	490	500
25	6	5.90	2.5	12.5	10	1.5	19	0.727	2,190	180	155	600	500
35	6	6.95	2.5	13.6	10	1.6	21	0.524	1,970	210	185	720	500
50	6	8.33	2.5	14.9	10	1.6	22	0.387	1,740	260	220	860	500
70	12	9.73	2.5	16.3	10	1.6	23	0.268	1,550	320	270	1,070	500
95	15	11.43	2.5	18.0	10	1.7	25	0.193	1,370	390	320	1,350	500
120	18	12.95	2.5	19.6	10	1.8	27	0.153	1,250	450	360	1,620	500
150	18	14.27	2.5	20.9	16	1.8	28	0.124	1,160	520	410	1,950	500
185	30	15.98	2.5	22.6	16	1.9	30	0.0991	1,050	595	460	2,330	500
240	34	18.47	2.6	25.3	25	1.9	33	0.0754	970	710	535	3,000	500
300	34	20.68	2.8	27.9	25	2.0	36	0.0601	940	810	605	3,630	500
400	53	23.39	3.0	31.0	25	2.2	39	0.0470	900	950	690	4,510	500
500	53	26.67	3.2	35.2	25	2.3	44	0.0366	840	1,100	790	5,660	300
630	53	30.22	3.2	38.8	25	2.4	48	0.0283	750	1,280	895	7,080	300
800	53	34.00	3.2	42.6	25	2.5	52	0.0221	680	1,470	1,010	8,820	250

3.6/6(7.2) 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	: 7.2 kV
AC test voltage	: 12.5 kV

Application

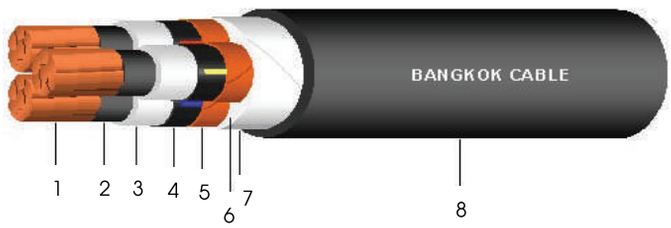
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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.)
10	2.33	0.677	0.213	2.34
16	1.47	0.642	0.202	1.48
25	0.927	0.607	0.191	0.947
35	0.668	0.595	0.187	0.694
50	0.494	0.568	0.178	0.525
70	0.342	0.546	0.171	0.383
95	0.247	0.530	0.167	0.297
120	0.196	0.520	0.163	0.255
150	0.159	0.508	0.160	0.225
185	0.127	0.499	0.157	0.202
240	0.0973	0.490	0.154	0.182
300	0.0781	0.484	0.152	0.171
400	0.0618	0.476	0.149	0.162
500	0.0490	0.474	0.149	0.157
630	0.0390	0.466	0.146	0.152
800	0.0318	0.458	0.144	0.147

3.6/6(7.2) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Compact round 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	: 7.2 kV
AC test voltage	: 12.5 kV

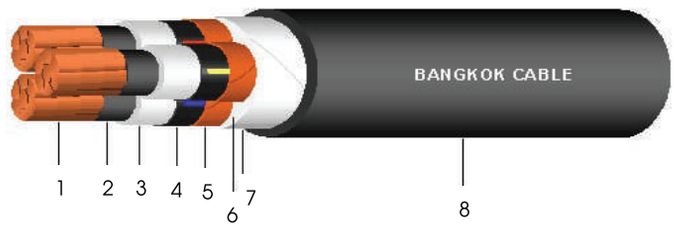
Application

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
10	6	3.72	2.5	10.3	1.9	31	1.83	2,870	80	80	1,080	500
16	6	4.69	2.5	11.3	2.0	33	1.15	2,520	110	110	1,350	500
25	6	5.90	2.5	12.5	2.1	36	0.727	2,190	140	145	1,730	500
35	6	6.95	2.5	13.6	2.1	38	0.524	1,970	170	175	2,100	500
50	6	8.33	2.5	14.9	2.2	41	0.387	1,740	210	205	2,600	500
70	12	9.73	2.5	16.3	2.3	45	0.268	1,550	260	250	3,330	500
95	15	11.43	2.5	18.0	2.5	49	0.193	1,370	315	300	4,280	500
120	18	12.95	2.5	19.6	2.6	52	0.153	1,250	365	340	5,150	300
150	18	14.27	2.5	20.9	2.7	55	0.124	1,160	415	385	6,080	300
185	30	15.98	2.5	22.6	2.8	59	0.0991	1,050	475	435	7,330	300
240	34	18.47	2.6	25.3	3.0	65	0.0754	970	570	505	9,320	250
300	34	20.68	2.8	27.9	3.2	72	0.0601	940	650	570	11,440	200
400	53	23.39	3.0	31.0	3.4	79	0.0470	900	750	650	14,300	150

3.6/6(7.2) kV CV (CE optional)*

3 CORES - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	:	Compact round 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	: 7.2 kV
AC test voltage	: 12.5 kV

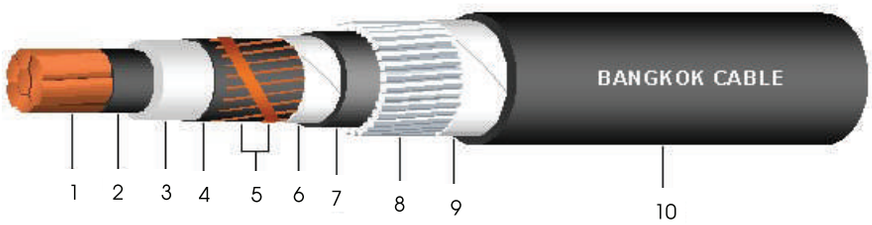
Application

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.)
10	2.33	0.425	0.133	2.34
16	1.47	0.394	0.124	1.47
25	0.927	0.366	0.115	0.934
35	0.668	0.348	0.109	0.677
50	0.494	0.328	0.103	0.504
70	0.342	0.313	0.0983	0.356
95	0.247	0.299	0.0938	0.264
120	0.196	0.289	0.0908	0.216
150	0.160	0.281	0.0884	0.182
185	0.128	0.273	0.0859	0.154
240	0.0987	0.265	0.0833	0.129
300	0.0799	0.261	0.0820	0.115
400	0.0642	0.256	0.0805	0.103

3.6/6(7.2) kV CV-AWA (CE-AWA optional)*

1 CORE - 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 wires with copper contact tape
6. Binding tape : Polyester tape
7. Inner sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour : Aluminium wires
9. Binding tape : Polyester tape
10. Outer sheath : Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

Maximum conductor temperature : 90°C

Maximum circuit voltage : 7.2 kV

AC test voltage : 12.5 kV

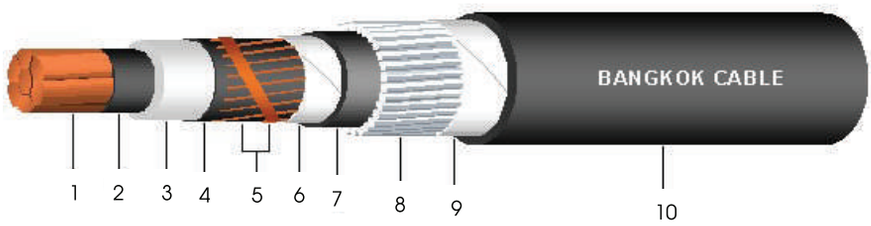
Application

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 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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm^2	(Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
10	6	3.72	2.5	10.3	10	1.2	16.5	1.6	1.6	24	1.83	110	90	770	500
16	6	4.69	2.5	11.3	10	1.2	17.5	1.6	1.7	25	1.15	140	120	870	500
25	6	5.90	2.5	12.5	10	1.2	18.5	1.6	1.7	26	0.727	180	160	1,000	500
35	6	6.95	2.5	13.6	10	1.2	20.0	1.6	1.7	27	0.524	220	190	1,130	500
50	6	8.33	2.5	14.9	10	1.2	21.0	1.6	1.8	29	0.387	265	220	1,310	500
70	12	9.73	2.5	16.3	10	1.2	22.5	1.6	1.8	30	0.268	330	270	1,550	500
95	15	11.43	2.5	18.0	10	1.2	24.5	1.6	1.9	32	0.193	400	320	1,870	500
120	18	12.95	2.5	19.6	10	1.2	26.0	1.6	1.9	34	0.153	460	365	2,150	500
150	18	14.27	2.5	20.9	16	1.2	27.0	2.0	2.0	36	0.124	530	410	2,610	500
185	30	15.98	2.5	22.6	16	1.2	29.0	2.0	2.1	38	0.0991	610	465	3,030	500
240	34	18.47	2.6	25.3	25	1.2	31.5	2.0	2.2	41	0.0754	720	540	3,780	500
300	34	20.68	2.8	27.9	25	1.2	34.0	2.0	2.3	44	0.0601	825	610	4,470	500
400	53	23.39	3.0	31.0	25	1.3	37.5	2.5	2.4	48	0.0470	960	700	5,580	300
500	53	26.67	3.2	35.2	25	1.3	41.5	2.5	2.5	53	0.0366	1,120	795	6,830	300
630	53	30.22	3.2	38.8	25	1.4	45.5	2.5	2.6	57	0.0283	1,300	905	8,390	250
800	53	34.00	3.2	42.6	25	1.5	49.5	2.5	2.8	61	0.0221	1,480	1020	10,290	200

3.6/6(7.2) kV CV-AWA (CE-AWA optional)*

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyester tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyester tape
10. Outer sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 7.2 kV
AC test voltage	: 12.5 kV

Application

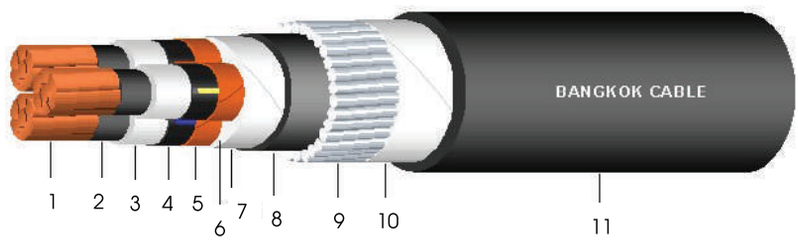
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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.)
10	2.33	0.746	0.234	2.35
16	1.47	0.708	0.222	1.48
25	0.927	0.670	0.211	0.951
35	0.668	0.645	0.203	0.698
50	0.494	0.623	0.196	0.531
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	0.559	0.175	0.237
185	0.127	0.547	0.172	0.214
240	0.0972	0.533	0.167	0.194
300	0.0779	0.524	0.165	0.182
400	0.0616	0.517	0.162	0.174
500	0.0488	0.511	0.160	0.168
630	0.0388	0.500	0.157	0.162
800	0.0316	0.490	0.154	0.157

3.6/6(7.2) 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	: 7.2 kV
AC test voltage	: 12.5 kV

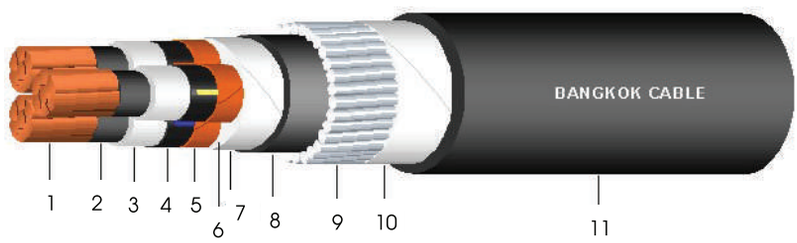
Application

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^2		mm	mm	mm	mm	mm	mm	mm	mm	Ω/km	A	A	kg/km	m/drum
	(Min.)	(Approx.)	(Nominal)	(Approx.)	(Nominal)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	(Max.)			(Approx.)	
10	6	3.72	2.5	10.3	1.2	29.0	2.0	2.1	38	1.83	80	85	2,570	500
16	6	4.69	2.5	11.3	1.2	31.5	2.0	2.2	41	1.15	110	110	2,940	500
25	6	5.90	2.5	12.5	1.2	34.0	2.0	2.3	43	0.727	145	145	3,450	500
35	6	6.95	2.5	13.6	1.3	36.5	2.5	2.4	47	0.524	175	170	4,340	500
50	6	8.33	2.5	14.9	1.3	39.5	2.5	2.5	50	0.387	210	205	5,030	300
70	12	9.73	2.5	16.3	1.4	42.5	2.5	2.6	54	0.268	260	245	5,970	300
95	15	11.43	2.5	18.0	1.4	46.5	2.5	2.8	58	0.193	315	295	7,160	300
120	18	12.95	2.5	19.6	1.5	50.0	2.5	2.9	62	0.153	360	335	8,260	250
150	18	14.27	2.5	20.9	1.6	53.0	2.5	3.0	65	0.124	405	375	9,410	250
185	30	15.98	2.5	22.6	1.6	56.5	2.5	3.1	69	0.0991	465	420	10,900	200
240	34	18.47	2.6	25.3	1.7	62.5	3.15	3.3	77	0.0754	545	480	14,130	150
300	34	20.68	2.8	27.9	1.8	68.5	3.15	3.5	83	0.0601	615	535	16,730	100

3.6/6(7.2) 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	: 7.2 kV
AC test voltage	: 12.5 kV

Application

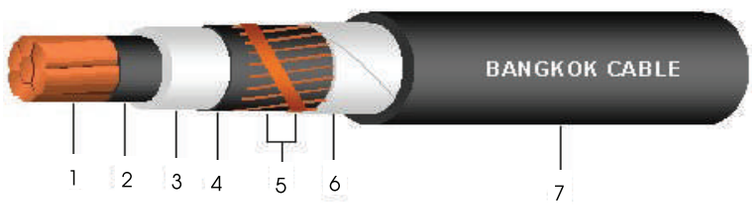
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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.)
10	2.33	0.425	0.133	2.34
16	1.47	0.394	0.124	1.47
25	0.927	0.366	0.115	0.934
35	0.668	0.348	0.109	0.677
50	0.494	0.328	0.103	0.504
70	0.342	0.313	0.0983	0.356
95	0.247	0.299	0.0938	0.264
120	0.196	0.289	0.0908	0.216
150	0.160	0.281	0.0884	0.182
185	0.128	0.273	0.0859	0.154
240	0.0987	0.265	0.0833	0.129
300	0.0799	0.261	0.0820	0.115

6/10(12) 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 : 12 kV

AC test voltage : 21 kV

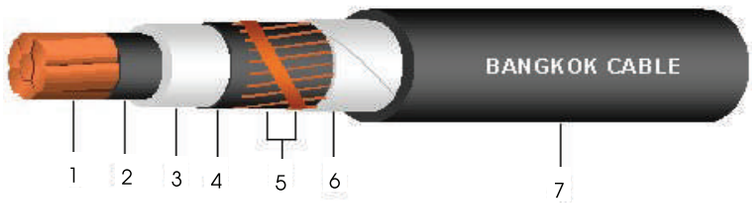
Application

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
16	6	4.69	3.4	13.1	10	1.5	20	1.15	3,140	135	120	540	500
25	6	5.90	3.4	14.3	10	1.6	21	0.727	2,750	180	150	660	500
35	6	6.95	3.4	15.4	10	1.6	22	0.524	2,490	215	180	770	500
50	6	8.33	3.4	16.7	10	1.7	24	0.387	2,210	260	220	930	500
70	12	9.73	3.4	18.1	10	1.7	25	0.268	1,990	320	270	1,150	500
95	15	11.43	3.4	19.8	10	1.8	27	0.193	1,770	390	320	1,440	500
120	18	12.95	3.4	21.4	10	1.8	29	0.153	1,620	450	360	1,700	500
150	18	14.27	3.4	22.7	16	1.9	30	0.124	1,500	520	410	2,050	500
185	30	15.98	3.4	24.4	16	1.9	32	0.0991	1,370	590	460	2,420	500
240	34	18.47	3.4	26.9	25	2.0	35	0.0754	1,220	705	535	3,100	500
300	34	20.68	3.4	29.1	25	2.1	37	0.0601	1,120	810	600	3,720	500
400	53	23.39	3.4	31.8	25	2.2	40	0.0470	1,010	945	690	4,560	500
500	53	26.67	3.4	35.6	25	2.3	44	0.0366	890	1,100	790	5,690	300
630	53	30.22	3.4	39.2	25	2.4	48	0.0283	800	1,280	890	7,110	300
800	53	34.00	3.4	43.0	25	2.5	52	0.0221	720	1,470	1,010	8,860	250

6/10(12) 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	: 12 kV
AC test voltage	: 21 kV

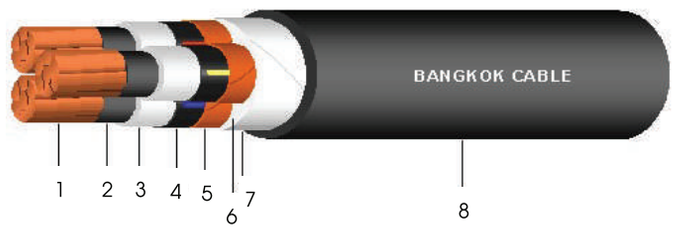
Application

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.)
16	1.47	0.664	0.208	1.48
25	0.927	0.627	0.197	0.948
35	0.668	0.604	0.190	0.695
50	0.494	0.585	0.184	0.527
70	0.342	0.562	0.177	0.385
95	0.246	0.545	0.171	0.300
120	0.196	0.535	0.168	0.258
150	0.159	0.522	0.164	0.228
185	0.127	0.512	0.161	0.205
240	0.0972	0.501	0.157	0.185
300	0.0780	0.490	0.154	0.173
400	0.0617	0.481	0.151	0.163
500	0.0490	0.474	0.149	0.157
630	0.0390	0.466	0.146	0.152
800	0.0318	0.458	0.144	0.147

6/10(12) 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	: 12 kV
AC test voltage	: 21 kV

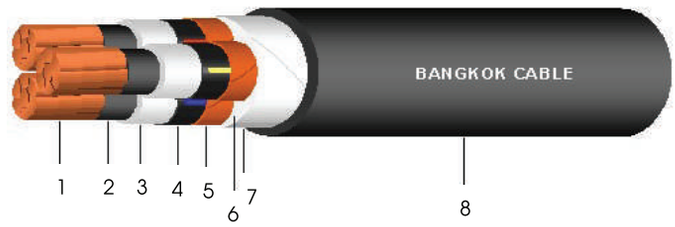
Application

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
16	6	4.69	3.4	13.1	2.1	37	1.15	3,140	110	110	1,570	500
25	6	5.90	3.4	14.3	2.2	40	0.727	2,750	140	145	1,970	500
35	6	6.95	3.4	15.4	2.3	43	0.524	2,490	175	175	2,380	500
50	6	8.33	3.4	16.7	2.4	46	0.387	2,210	210	205	2,890	500
70	12	9.73	3.4	18.1	2.5	49	0.268	1,990	260	250	3,640	500
95	15	11.43	3.4	19.8	2.6	53	0.193	1,770	315	300	4,590	500
120	18	12.95	3.4	21.4	2.7	56	0.153	1,620	365	340	5,480	300
150	18	14.27	3.4	22.7	2.8	59	0.124	1,500	415	385	6,440	300
185	30	15.98	3.4	24.4	2.9	63	0.0991	1,370	475	435	7,700	250
240	34	18.47	3.4	26.9	3.1	69	0.0754	1,220	570	505	9,690	200
300	34	20.68	3.4	29.1	3.3	74	0.0601	1,120	650	570	11,740	200
400	53	23.39	3.4	31.8	3.5	81	0.0470	1,010	750	655	14,530	150

6/10(12) 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	: 12 kV
AC test voltage	: 21 kV

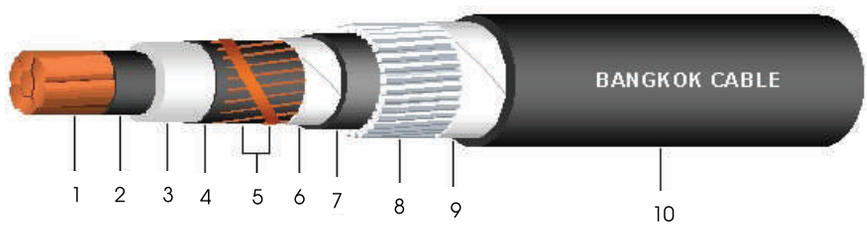
Application

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.)
16	1.47	0.420	0.132	1.47
25	0.927	0.389	0.122	0.935
35	0.668	0.370	0.116	0.678
50	0.494	0.348	0.109	0.506
70	0.342	0.332	0.104	0.358
95	0.247	0.316	0.0992	0.266
120	0.196	0.305	0.0959	0.218
150	0.159	0.297	0.0932	0.185
185	0.128	0.288	0.0903	0.157
240	0.0985	0.277	0.0870	0.131
300	0.0797	0.269	0.0845	0.116
400	0.0640	0.261	0.0820	0.104

6/10(12) kV CV-AWA (CE-AWA optional)*

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyester tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyester tape
10. Outer sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 12 kV
AC test voltage	: 21 kV

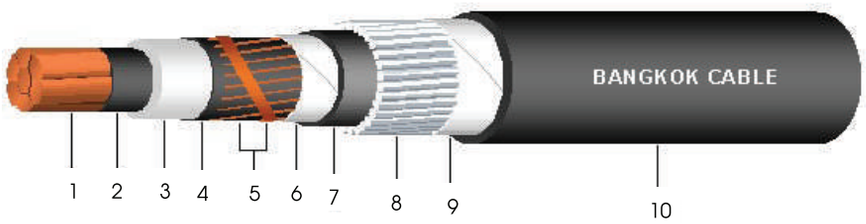
Application

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 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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm^2	(Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
16	6	4.69	3.4	13.1	10	1.2	19.5	1.6	1.7	27	1.15	140	120	960	500
25	6	5.90	3.4	14.3	10	1.2	20.5	1.6	1.8	28	0.727	180	155	1,100	500
35	6	6.95	3.4	15.4	10	1.2	21.5	1.6	1.8	29	0.524	220	190	1,240	500
50	6	8.33	3.4	16.7	10	1.2	23.0	1.6	1.9	31	0.387	260	220	1,420	500
70	12	9.73	3.4	18.1	10	1.2	24.5	1.6	1.9	32	0.268	330	270	1,660	500
95	15	11.43	3.4	19.8	10	1.2	26.0	1.6	2.0	34	0.193	400	320	1,990	500
120	18	12.95	3.4	21.4	10	1.2	27.5	2.0	2.0	36	0.153	460	370	2,370	500
150	18	14.27	3.4	22.7	16	1.2	29.0	2.0	2.1	38	0.124	530	410	2,750	500
185	30	15.98	3.4	24.4	16	1.2	30.5	2.0	2.1	40	0.0991	600	460	3,160	500
240	34	18.47	3.4	26.9	25	1.2	33.0	2.0	2.2	42	0.0754	715	540	3,900	500
300	34	20.68	3.4	29.1	25	1.2	35.5	2.0	2.3	45	0.0601	820	610	4,560	500
400	53	23.39	3.4	31.8	25	1.3	38.5	2.5	2.4	49	0.0470	960	700	5,650	300
500	53	26.67	3.4	35.6	25	1.3	42.0	2.5	2.5	53	0.0366	1,120	795	6,880	300
630	53	30.22	3.4	39.2	25	1.4	46.0	2.5	2.7	57	0.0283	1,290	900	8,450	250
800	53	34.00	3.4	43.0	25	1.5	50.0	2.5	2.8	61	0.0221	1,480	1020	10,330	200

6/10(12) kV CV-AWA (CE-AWA optional)*

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyester tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyester tape
10. Outer sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

IEC 60502-2

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 12 kV
AC test voltage	: 21 kV

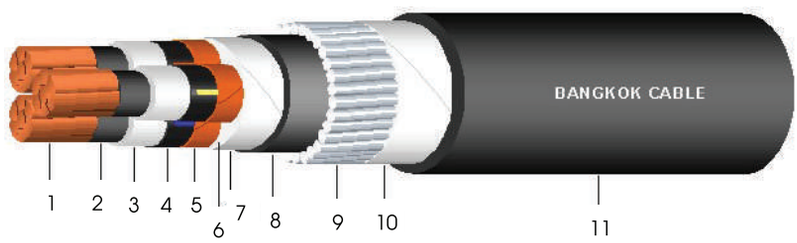
Application

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.)
16	1.47	0.724	0.227	1.48
25	0.927	0.685	0.215	0.952
35	0.668	0.659	0.207	0.700
50	0.494	0.636	0.200	0.533
70	0.342	0.612	0.192	0.392
95	0.246	0.591	0.186	0.309
120	0.196	0.578	0.182	0.267
150	0.159	0.569	0.179	0.239
185	0.127	0.557	0.175	0.216
240	0.0972	0.538	0.169	0.195
300	0.0779	0.529	0.166	0.184
400	0.0616	0.521	0.164	0.175
500	0.0488	0.511	0.160	0.168
630	0.0388	0.500	0.157	0.162
800	0.0316	0.490	0.154	0.157

6/10(12) 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	: 12 kV
AC test voltage	: 21 kV

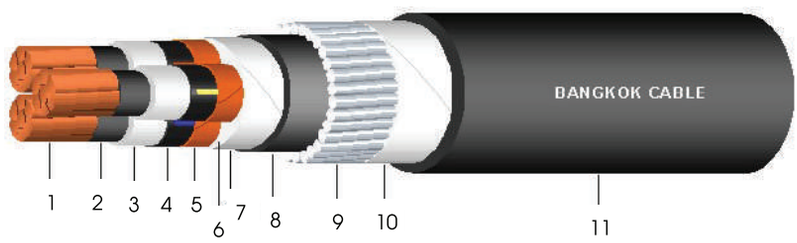
Application

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.	Current rating		Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter								Conductor resistance at 20°C	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.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
16	6	4.69	3.4	13.1	1.2	35.0	2.0	2.3	45	1.15	110	110	3,350	500
25	6	5.90	3.4	14.3	1.3	38.0	2.5	2.5	49	0.727	145	140	4,310	500
35	6	6.95	3.4	15.4	1.3	40.5	2.5	2.5	51	0.524	175	170	4,830	500
50	6	8.33	3.4	16.7	1.4	43.5	2.5	2.6	55	0.387	210	200	5,560	300
70	12	9.73	3.4	18.1	1.5	47.0	2.5	2.8	58	0.268	260	245	6,550	300
95	15	11.43	3.4	19.8	1.5	50.5	2.5	2.9	62	0.193	315	295	7,740	300
120	18	12.95	3.4	21.4	1.6	54.0	2.5	3.0	66	0.153	365	330	8,860	250
150	18	14.27	3.4	22.7	1.6	57.0	2.5	3.1	69	0.124	410	370	10,010	200
185	30	15.98	3.4	24.4	1.7	60.5	2.5	3.2	73	0.0991	465	415	11,550	200
240	34	18.47	3.4	26.9	1.8	66.5	3.15	3.5	81	0.0754	550	475	14,870	150
300	34	20.68	3.4	29.1	1.9	71.5	3.15	3.6	86	0.0601	620	530	17,300	100

6/10(12) 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	: 12 kV
AC test voltage	: 21 kV

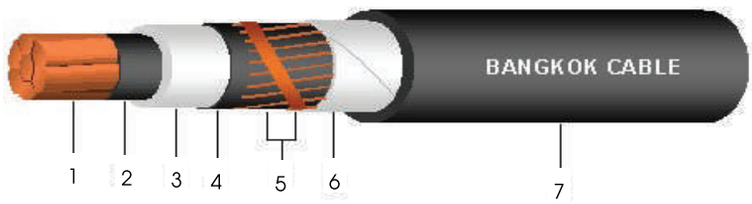
Application

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.)
16	1.47	0.420	0.132	1.47
25	0.927	0.389	0.122	0.935
35	0.668	0.370	0.116	0.678
50	0.494	0.348	0.109	0.506
70	0.342	0.332	0.104	0.358
95	0.247	0.316	0.0992	0.266
120	0.196	0.305	0.0959	0.218
150	0.159	0.297	0.0932	0.185
185	0.128	0.288	0.0903	0.157
240	0.0985	0.277	0.0870	0.131
300	0.0797	0.269	0.0845	0.116

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

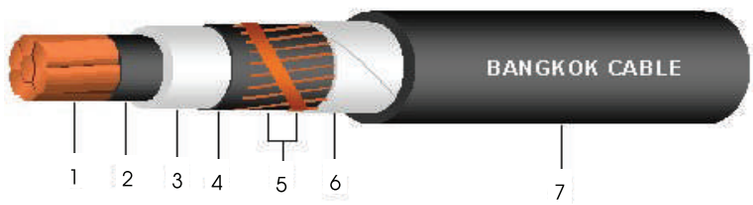
Application

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

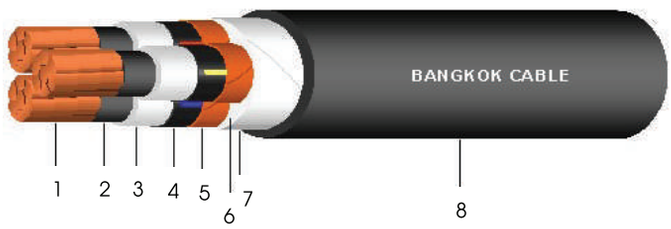
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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

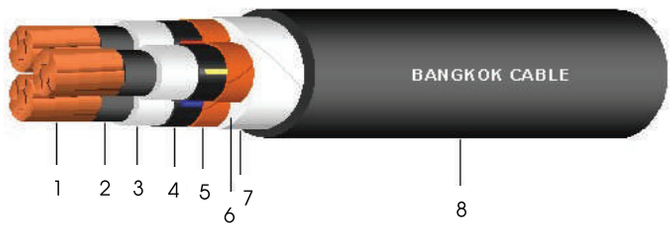
Application

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

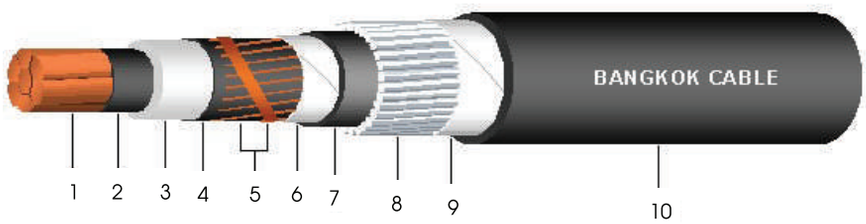
Application

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

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

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyeste tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyeste tape
10. 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

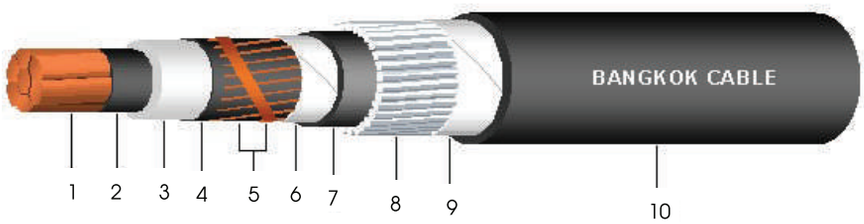
Application

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	Area of metallic screen	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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm^2	(Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
25	6	5.90	4.5	16.5	10	1.2	22.5	1.6	1.9	31	0.727	180	155	1,230	500
35	6	6.95	4.5	17.6	10	1.2	24.0	1.6	1.9	32	0.524	220	185	1,370	500
50	6	8.33	4.5	18.9	10	1.2	25.0	1.6	1.9	33	0.387	260	220	1,550	500
70	12	9.73	4.5	20.3	10	1.2	26.5	1.6	2.0	35	0.268	330	270	1,810	500
95	15	11.43	4.5	22.0	10	1.2	28.5	2.0	2.1	37	0.193	400	320	2,230	500
120	18	12.95	4.5	23.6	10	1.2	30.0	2.0	2.1	39	0.153	460	365	2,530	500
150	18	14.27	4.5	24.9	16	1.2	31.0	2.0	2.2	40	0.124	520	410	2,920	500
185	30	15.98	4.5	26.6	16	1.2	33.0	2.0	2.2	42	0.0991	600	460	3,330	500
240	34	18.47	4.5	29.1	25	1.2	35.5	2.0	2.3	45	0.0754	710	540	4,080	500
300	34	20.68	4.5	31.3	25	1.3	37.5	2.5	2.4	48	0.0601	820	610	4,930	300
400	53	23.39	4.5	34.0	25	1.3	40.5	2.5	2.5	51	0.0470	950	695	5,860	300
500	53	26.67	4.5	37.8	25	1.4	44.5	2.5	2.6	56	0.0366	1,105	790	7,140	300
630	53	30.22	4.5	41.4	25	1.4	48.0	2.5	2.7	59	0.0283	1,280	900	8,670	250
800	53	34.00	4.5	45.2	25	1.5	52.0	2.5	2.9	64	0.0221	1,470	1020	10,600	200

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

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyeste tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyeste tape
10. 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

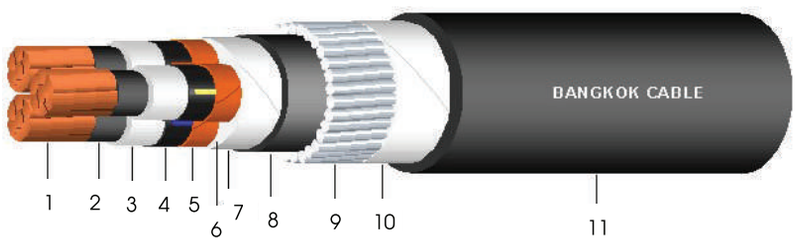
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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	0.705	0.222	0.953
35	0.668	0.679	0.213	0.701
50	0.494	0.649	0.204	0.534
70	0.342	0.629	0.198	0.395
95	0.246	0.608	0.191	0.312
120	0.196	0.594	0.187	0.270
150	0.159	0.580	0.182	0.242
185	0.127	0.567	0.178	0.219
240	0.0971	0.552	0.173	0.199
300	0.0779	0.542	0.170	0.187
400	0.0616	0.529	0.166	0.177
500	0.0488	0.522	0.164	0.171
630	0.0388	0.507	0.159	0.164
800	0.0315	0.500	0.157	0.160

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

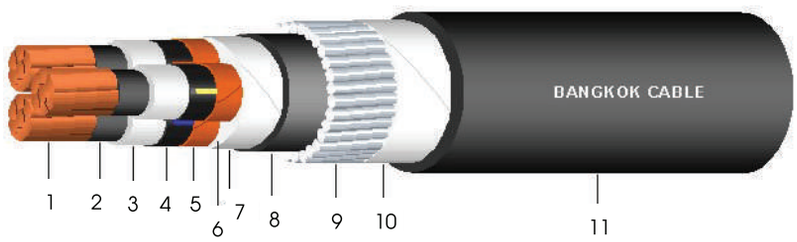
Application

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^2	(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
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



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

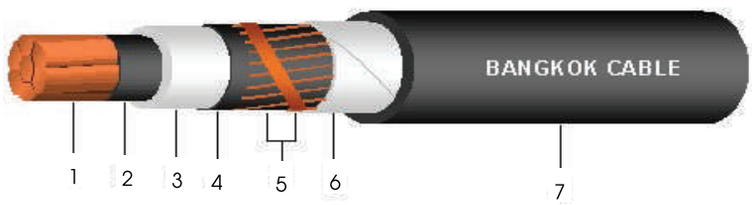
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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

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

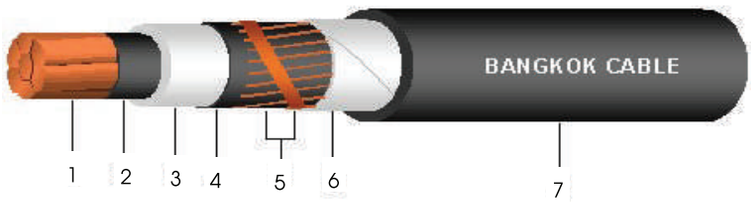
Application

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

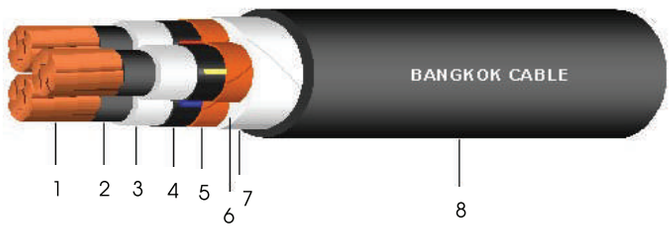
Application

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

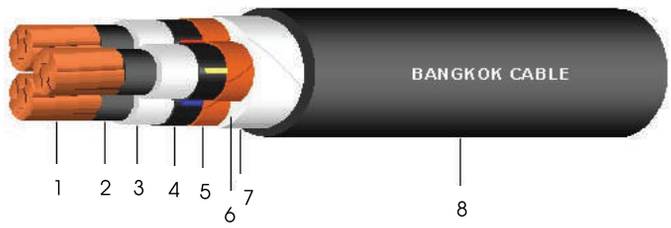
Application

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

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

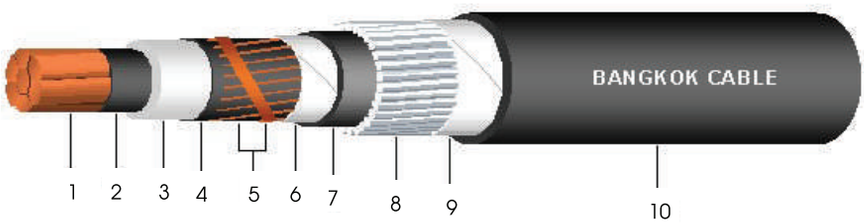
Application

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

Conductor 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

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

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyester tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyester tape
10. 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

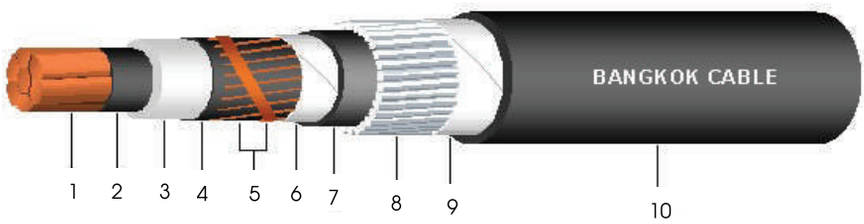
Application

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	Area of metallic screen	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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm^2	(Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	A	kg/km (Approx.)	m/drum
35	6	6.95	5.5	19.6	10	1.2	26.0	1.6	2.0	34	0.524	220	180	1,500	500
50	6	8.33	5.5	20.9	10	1.2	27.0	2.0	2.0	36	0.387	260	220	1,770	500
70	12	9.73	5.5	22.3	10	1.2	28.5	2.0	2.1	38	0.268	330	270	2,050	500
95	15	11.43	5.5	24.0	10	1.2	30.5	2.0	2.1	39	0.193	400	320	2,370	500
120	18	12.95	5.5	25.6	10	1.2	32.0	2.0	2.2	41	0.153	460	360	2,700	500
150	18	14.27	5.5	26.9	16	1.2	33.0	2.0	2.2	42	0.124	520	410	3,070	500
185	30	15.98	5.5	28.6	16	1.2	35.0	2.0	2.3	44	0.0991	600	460	3,500	500
240	34	18.47	5.5	31.1	25	1.3	37.5	2.5	2.4	48	0.0754	710	540	4,440	500
300	34	20.68	5.5	33.3	25	1.3	39.5	2.5	2.5	51	0.0601	810	610	5,140	300
400	53	23.39	5.5	36.0	25	1.4	42.5	2.5	2.6	54	0.0470	940	690	6,100	300
500	53	26.67	5.5	39.8	25	1.4	46.5	2.5	2.7	58	0.0366	1,100	790	7,360	300
630	53	30.22	5.5	43.4	25	1.5	50.5	2.5	2.8	62	0.0283	1,270	900	8,940	250
800	53	34.00	5.5	47.2	25	1.5	54.0	2.5	2.9	66	0.0221	1,460	1015	10,820	200

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

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyester tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyester tape
10. 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

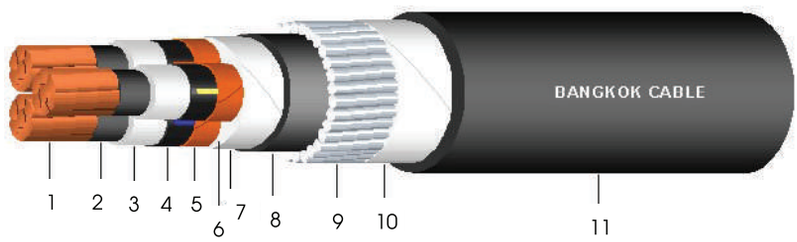
Application

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

Conductor 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	0.691	0.217	0.703
50	0.494	0.666	0.209	0.536
70	0.342	0.646	0.203	0.398
95	0.246	0.619	0.194	0.314
120	0.196	0.604	0.190	0.272
150	0.159	0.589	0.185	0.244
185	0.127	0.576	0.181	0.221
240	0.0971	0.564	0.177	0.202
300	0.0779	0.554	0.174	0.191
400	0.0615	0.541	0.170	0.181
500	0.0487	0.529	0.166	0.173
630	0.0387	0.517	0.162	0.167
800	0.0315	0.506	0.159	0.162

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

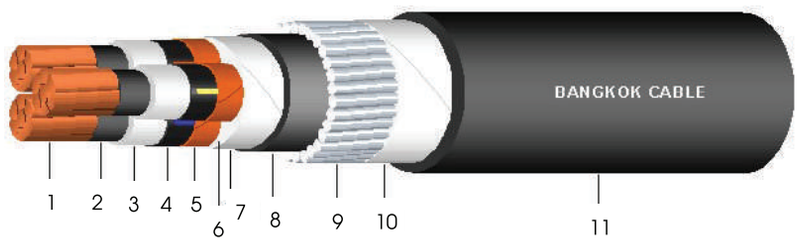
Application

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 at 40°C ambient	direct burial in ground at 30°C		
mm^2	(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
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

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

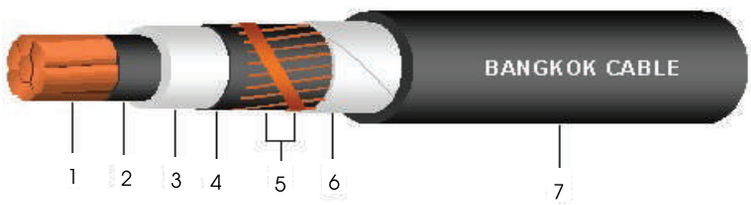
Application

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

Conductor 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

18/30(36) 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	: 36 kV
AC test voltage	: 63 kV

Application

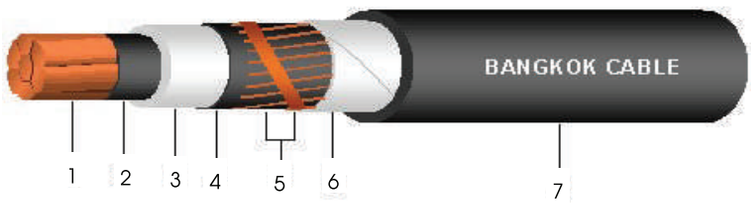
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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
50	6	8.33	8.0	25.9	10	2.0	34	0.387	4,030	260	220	1,370	500
70	12	9.73	8.0	27.3	10	2.0	35	0.268	3,690	320	260	1,610	500
95	15	11.43	8.0	29.0	10	2.1	37	0.193	3,350	390	320	1,930	500
120	18	12.95	8.0	30.6	10	2.1	39	0.153	3,100	450	360	2,210	500
150	18	14.27	8.0	31.9	16	2.2	40	0.124	2,910	510	400	2,590	500
185	30	15.98	8.0	33.6	16	2.2	42	0.0991	2,700	580	460	2,990	500
240	34	18.47	8.0	36.1	25	2.3	45	0.0754	2,440	690	530	3,710	500
300	34	20.68	8.0	38.3	25	2.4	47	0.0601	2,250	790	600	4,370	500
400	53	23.39	8.0	41.0	25	2.5	50	0.0470	2,060	920	690	5,260	300
500	53	26.67	8.0	44.8	25	2.6	54	0.0366	1,840	1,070	780	6,440	300
630	53	30.22	8.0	48.4	25	2.7	58	0.0283	1,670	1,250	890	7,930	300
800	53	34.00	8.0	52.2	25	2.8	62	0.0221	1,520	1,430	1,000	9,730	250

18/30(36) 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	: 36 kV
AC test voltage	: 63 kV

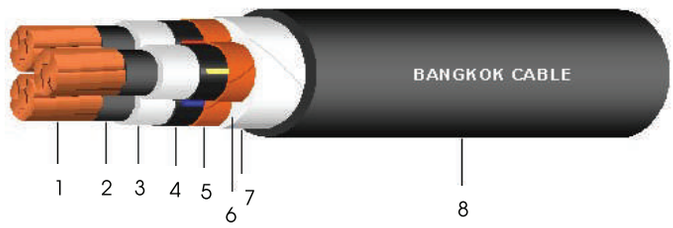
Application

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

Conductor 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.)
50	0.494	0.655	0.206	0.535
70	0.342	0.629	0.198	0.395
95	0.246	0.608	0.191	0.312
120	0.196	0.594	0.187	0.270
150	0.159	0.580	0.182	0.242
185	0.127	0.567	0.178	0.219
240	0.0971	0.552	0.173	0.199
300	0.0779	0.538	0.169	0.186
400	0.0616	0.525	0.165	0.176
500	0.0488	0.515	0.162	0.169
630	0.0388	0.504	0.158	0.163
800	0.0315	0.494	0.155	0.158

18/30(36) 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	: 36 kV
AC test voltage	: 63 kV

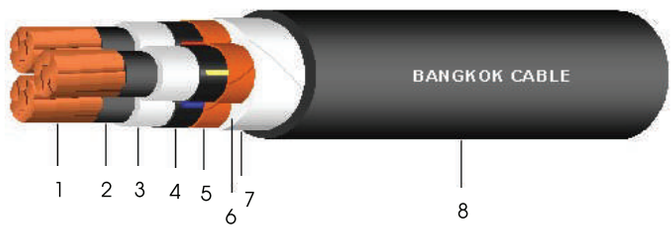
Application

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 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
50	6	8.33	8.0	25.9	3.1	67	0.387	4,030	220	205	4,720	300
70	12	9.73	8.0	27.3	3.2	70	0.268	3,690	270	250	5,560	300
95	15	11.43	8.0	29.0	3.3	74	0.193	3,350	330	300	6,630	300
120	18	12.95	8.0	30.6	3.4	78	0.153	3,100	380	340	7,630	300
150	18	14.27	8.0	31.9	3.5	81	0.124	2,910	430	380	8,670	250
185	30	15.98	8.0	33.6	3.6	85	0.0991	2,700	490	435	10,050	200
240	34	18.47	8.0	36.1	3.8	91	0.0754	2,440	580	505	12,220	150
300	34	20.68	8.0	38.3	4.0	96	0.0601	2,250	660	570	14,430	150
400	53	23.39	8.0	41.0	4.2	102	0.0470	2,060	765	650	17,410	100

18/30(36) 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	: 36 kV
AC test voltage	: 63 kV

Application

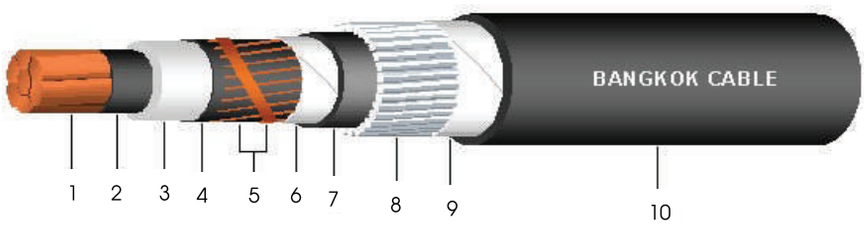
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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.)
50	0.494	0.429	0.135	0.512
70	0.342	0.408	0.128	0.365
95	0.247	0.387	0.122	0.275
120	0.196	0.372	0.117	0.228
150	0.159	0.360	0.113	0.195
185	0.128	0.348	0.109	0.168
240	0.0979	0.332	0.104	0.143
300	0.0789	0.321	0.101	0.128
400	0.0629	0.309	0.0972	0.116

18/30(36) kV CV-AWA (CE-AWA optional)*

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyester tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyester tape
10. 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

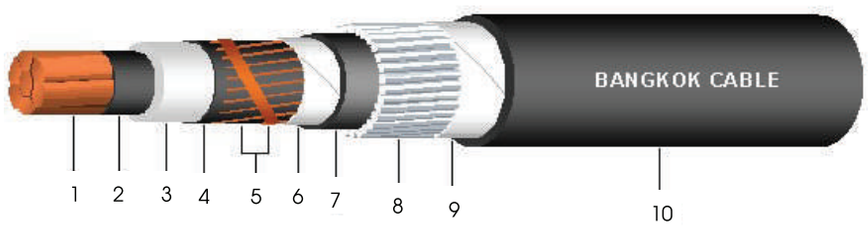
Application

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	Area of metallic screen	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^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm^2	(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	25.9	10	1.2	32.0	2.0	2.2	41	0.387	260	220	2,150	500
70	12	9.73	8.0	27.3	10	1.2	33.5	2.0	2.3	43	0.268	320	270	2,440	500
95	15	11.43	8.0	29.0	10	1.2	35.5	2.0	2.3	45	0.193	390	320	2,780	500
120	18	12.95	8.0	30.6	10	1.3	37.0	2.5	2.4	48	0.153	450	360	3,280	500
150	18	14.27	8.0	31.9	16	1.3	38.5	2.5	2.5	49	0.124	515	410	3,700	500
185	30	15.98	8.0	33.6	16	1.3	40.0	2.5	2.5	51	0.0991	590	460	4,140	500
240	34	18.47	8.0	36.1	25	1.4	43.0	2.5	2.6	54	0.0754	700	535	4,950	300
300	34	20.68	8.0	38.3	25	1.4	45.0	2.5	2.7	56	0.0601	800	605	5,680	300
400	53	23.39	8.0	41.0	25	1.5	48.0	2.5	2.8	59	0.0470	930	690	6,680	300
500	53	26.67	8.0	44.8	25	1.5	51.5	2.5	2.9	64	0.0366	1,080	790	7,980	250
630	53	30.22	8.0	48.4	25	1.6	55.5	2.5	3.0	68	0.0283	1,250	900	9,590	250
800	53	34.00	8.0	52.2	25	1.6	59.5	2.5	3.1	72	0.0221	1,430	1010	11,500	200

18/30(36) kV CV-AWA (CE-AWA optional)*

1 CORE - 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 wires with copper contact tape
6. Binding tape	:	Polyester tape
7. Inner sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*
8. Armour	:	Aluminium wires
9. Binding tape	:	Polyester tape
10. 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

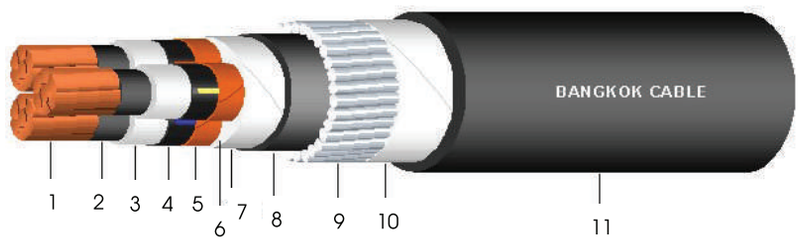
Application

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

Conductor 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.)
50	0.494	0.692	0.217	0.539
70	0.342	0.671	0.211	0.402
95	0.246	0.648	0.203	0.320
120	0.196	0.635	0.200	0.279
150	0.159	0.620	0.195	0.251
185	0.127	0.606	0.190	0.229
240	0.0971	0.588	0.185	0.209
300	0.0778	0.573	0.180	0.196
400	0.0615	0.559	0.175	0.186
500	0.0487	0.549	0.172	0.179
630	0.0386	0.536	0.168	0.173
800	0.0314	0.524	0.164	0.167

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 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	: 36 kV
AC test voltage	: 63 kV

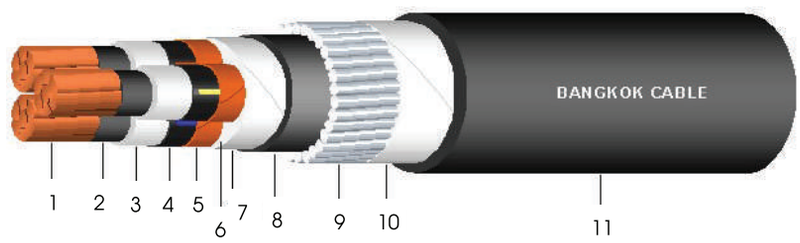
Application

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^2	(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	25.9	1.8	64.5	3.15	3.4	78	0.387	215	200	9,710	200
70	12	9.73	8.0	27.3	1.9	67.5	3.15	3.5	82	0.268	265	245	10,820	200
95	15	11.43	8.0	29.0	1.9	71.0	3.15	3.7	86	0.193	320	290	12,230	150
120	18	12.95	8.0	30.6	2.0	74.5	3.15	3.8	90	0.153	365	330	13,500	150
150	18	14.27	8.0	31.9	2.0	77.5	3.15	3.9	93	0.124	415	370	14,780	150
185	30	15.98	8.0	33.6	2.1	81.5	3.15	4.0	97	0.0991	470	415	16,510	100
240	34	18.47	8.0	36.1	2.2	87.0	3.15	4.2	103	0.0754	545	475	19,120	100

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 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	: 36 kV
AC test voltage	: 63 kV

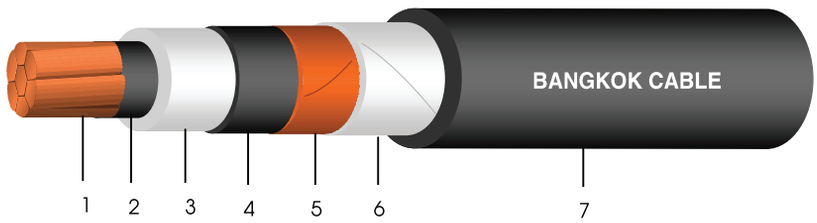
Application

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

Conductor 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.)
50	0.494	0.429	0.135	0.512
70	0.342	0.408	0.128	0.365
95	0.247	0.387	0.122	0.275
120	0.196	0.372	0.117	0.228
150	0.159	0.360	0.113	0.195
185	0.128	0.348	0.109	0.168
240	0.0979	0.332	0.104	0.143

15 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (100% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 15 kV
AC test voltage	: 35 kV
	: 44 kV (for size over 500 mm^2)

Application

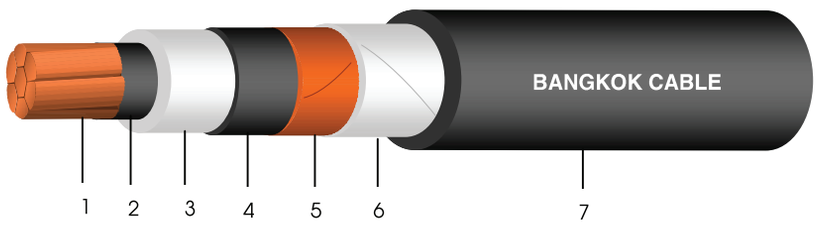
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

Conductor			Thickness of insulation	Diameter over insulation	Thickness of sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation resistance at 15.6°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 (Min.)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
25	6	5.90	4.45	16.3	1.78	23	0.727	2,209	170	150	690	500
35	6	6.95	4.45	17.4	1.78	24	0.524	2,009	210	180	820	500
50	6	8.33	4.45	18.7	1.78	26	0.387	1,797	250	220	970	500
70	12	9.73	4.45	20.1	1.78	27	0.268	1,624	320	260	1,200	500
95	15	11.43	4.45	21.8	1.78	29	0.193	1,455	390	320	1,490	500
120	18	12.95	4.45	23.4	1.78	30	0.153	1,332	450	360	1,760	500
150	18	14.27	4.45	24.7	1.78	32	0.124	1,242	510	400	2,050	500
185	30	15.98	4.45	26.4	1.78	34	0.0991	1,141	580	460	2,430	500
240	34	18.47	4.45	28.9	1.78	36	0.0754	1,021	690	530	3,030	500
300	34	20.68	4.45	31.1	1.78	38	0.0601	934	800	600	3,650	500
400	53	23.39	4.45	33.8	1.78	41	0.0470	846	930	685	4,490	500
500	53	26.67	4.45	37.6	1.78	45	0.0366	746	1,080	780	5,620	300
630	53	30.22	5.59	43.6	2.54	53	0.0283	673	1,250	890	7,420	300
800	53	34.00	5.59	47.3	2.54	57	0.0221	609	1,430	1,000	9,190	250

15 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (100% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 15 kV
AC test voltage	: 35 kV
	: 44 kV (for size over 500 mm^2)

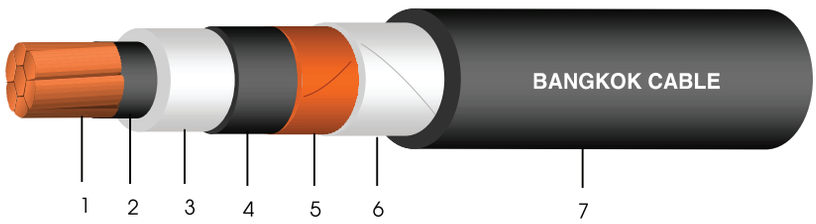
Application

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	0.646	0.203	0.949
35	0.668	0.621	0.195	0.696
50	0.494	0.601	0.189	0.529
70	0.342	0.578	0.181	0.387
95	0.246	0.560	0.176	0.303
120	0.196	0.541	0.170	0.259
150	0.159	0.535	0.168	0.231
185	0.127	0.524	0.165	0.208
240	0.0972	0.507	0.159	0.187
300	0.0780	0.495	0.156	0.174
400	0.0617	0.486	0.153	0.165
500	0.0490	0.478	0.150	0.158
630	0.0389	0.486	0.153	0.158
800	0.0317	0.477	0.150	0.153

15 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (133% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 15 kV
AC test voltage	: 44 kV

Application

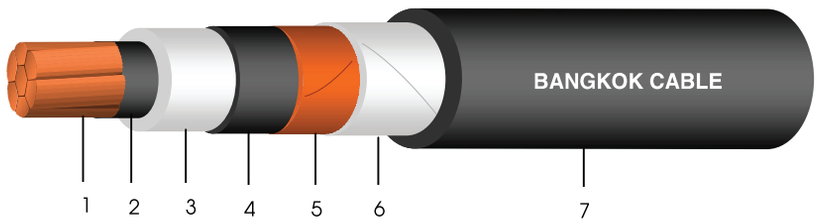
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

Conductor			Thickness of insulation	Diameter over insulation	Thickness of sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation resistance at 15.6°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 (Min.)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
25	6	5.90	5.59	18.7	1.78	26	0.727	2,568	170	150	790	500
35	6	6.95	5.59	19.7	1.78	27	0.524	2,347	210	180	910	500
50	6	8.33	5.59	21.1	1.78	28	0.387	2,111	255	220	1,070	500
70	12	9.73	5.59	22.5	1.78	30	0.268	1,918	320	260	1,310	500
95	15	11.43	5.59	24.2	1.78	31	0.193	1,728	390	320	1,600	500
120	18	12.95	5.59	25.7	1.78	33	0.153	1,588	450	360	1,880	500
150	18	14.27	5.59	27.1	1.78	34	0.124	1,484	510	400	2,170	500
185	30	15.98	5.59	28.8	1.78	36	0.0991	1,368	580	460	2,560	500
240	34	18.47	5.59	31.3	1.78	39	0.0754	1,230	690	530	3,170	500
300	34	20.68	5.59	33.5	1.78	41	0.0601	1,128	800	600	3,800	500
400	53	23.39	5.59	36.2	1.78	44	0.0470	1,025	920	680	4,650	500
500	53	26.67	5.59	40.0	2.54	49	0.0366	908	1,070	780	5,970	300
630	53	30.22	5.59	43.6	2.54	53	0.0283	821	1,250	890	7,420	300
800	53	34.00	5.59	47.3	2.54	57	0.0221	745	1,430	1,000	9,190	250

15 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (133% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 15 kV
AC test voltage	: 44 kV

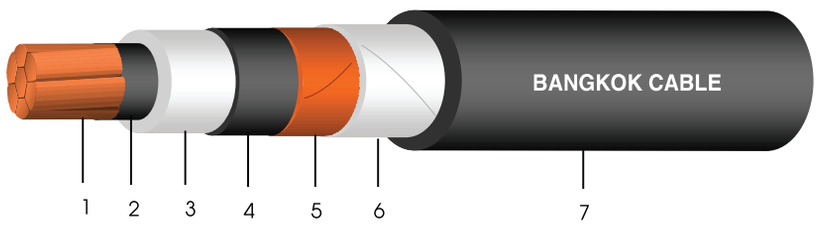
Application

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	0.670	0.211	0.951
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	0.573	0.180	0.305
120	0.196	0.561	0.176	0.263
150	0.159	0.547	0.172	0.234
185	0.127	0.536	0.168	0.211
240	0.0972	0.523	0.164	0.191
300	0.0780	0.510	0.160	0.178
400	0.0617	0.500	0.157	0.169
500	0.0489	0.495	0.156	0.163
630	0.0389	0.486	0.153	0.158
800	0.0317	0.477	0.150	0.153

25 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (100% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 25 kV
AC test voltage	: 52 kV

Application

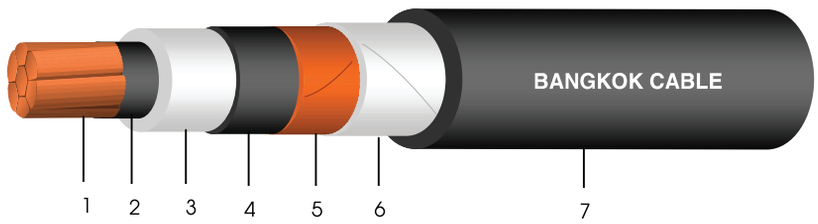
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

Conductor			Thickness of insulation	Diameter over insulation	Thickness of sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation resistance at 15.6°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 (Min.)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
35	6	6.95	6.6	21.8	1.78	29	0.524	2,614	210	180	1,010	500
50	6	8.33	6.6	23.2	1.78	30	0.387	2,362	255	220	1,170	500
70	12	9.73	6.6	24.6	1.78	32	0.268	2,154	320	260	1,410	500
95	15	11.43	6.6	26.3	1.78	33	0.193	1,948	390	315	1,710	500
120	18	12.95	6.6	27.8	1.78	35	0.153	1,795	450	360	1,990	500
150	18	14.27	6.6	29.2	1.78	36	0.124	1,682	510	400	2,290	500
185	30	15.98	6.6	30.9	1.78	38	0.0991	1,555	580	455	2,690	500
240	34	18.47	6.6	33.4	1.78	41	0.0754	1,402	690	530	3,300	500
300	34	20.68	6.6	35.6	1.78	43	0.0601	1,289	790	600	3,930	500
400	53	23.39	6.6	38.3	2.54	47	0.0470	1,174	920	680	4,970	500
500	53	26.67	6.6	42.1	2.54	51	0.0366	1,043	1,070	780	6,130	300
630	53	30.22	6.6	45.7	2.54	55	0.0283	946	1,240	890	7,600	300
800	53	34.00	6.6	49.4	2.54	59	0.0221	860	1,430	1,000	9,380	250

25 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (100% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 25 kV
AC test voltage	: 52 kV

Application

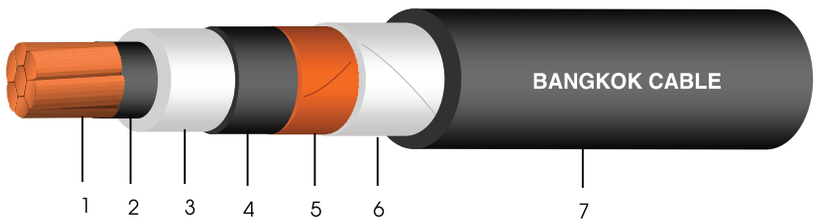
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

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	0.659	0.207	0.700
50	0.494	0.630	0.198	0.532
70	0.342	0.612	0.192	0.392
95	0.246	0.586	0.184	0.308
120	0.196	0.572	0.180	0.266
150	0.159	0.559	0.175	0.237
185	0.127	0.547	0.172	0.214
240	0.0972	0.533	0.167	0.194
300	0.0780	0.520	0.163	0.181
400	0.0616	0.513	0.161	0.173
500	0.0488	0.503	0.158	0.165
630	0.0388	0.493	0.155	0.160
800	0.0316	0.484	0.152	0.155

25 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (133% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 25 kV
AC test voltage	: 64 kV

Application

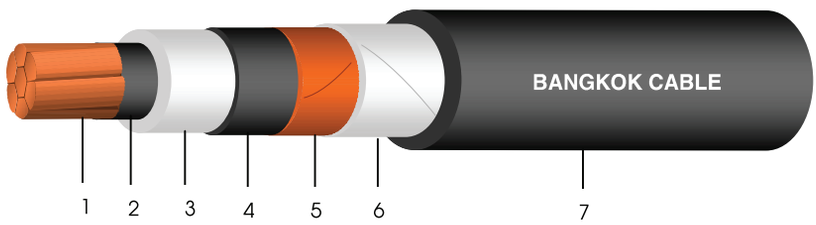
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

Conductor			Thickness of insulation	Diameter over insulation	Thickness of sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation resistance at 15.6°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 (Min.)	mm (Approx.)	Ω /km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
35	6	6.95	8.13	25.0	1.78	32	0.524	2,974	210	180	1,170	500
50	6	8.33	8.13	26.4	1.78	34	0.387	2,702	255	215	1,340	500
70	12	9.73	8.13	27.8	1.78	35	0.268	2,475	320	260	1,580	500
95	15	11.43	8.13	29.5	1.78	37	0.193	2,250	385	315	1,890	500
120	18	12.95	8.13	31.0	1.78	38	0.153	2,081	445	360	2,180	500
150	18	14.27	8.13	32.3	1.78	40	0.124	1,956	505	400	2,480	500
185	30	15.98	8.13	34.0	1.78	41	0.0991	1,814	580	455	2,890	500
240	34	18.47	8.13	36.5	1.78	44	0.0754	1,643	680	530	3,510	500
300	34	20.68	8.13	38.7	2.54	48	0.0601	1,516	780	600	4,330	500
400	53	23.39	8.13	41.5	2.54	51	0.0470	1,386	910	680	5,210	500
500	53	26.67	8.13	45.3	2.54	55	0.0366	1,236	1,060	780	6,400	300
630	53	30.22	8.13	48.8	2.54	58	0.0283	1,124	1,230	890	7,880	300
800	53	34.00	8.13	52.6	2.54	62	0.0221	1,025	1,415	1,000	9,680	250

25 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (133% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 25 kV
AC test voltage	: 64 kV

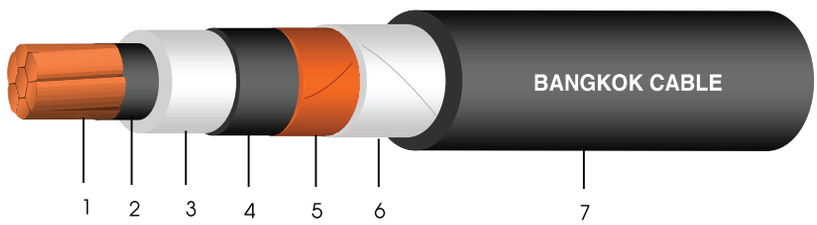
Application

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	0.679	0.213	0.701
50	0.494	0.655	0.206	0.535
70	0.342	0.629	0.198	0.395
95	0.246	0.608	0.191	0.312
120	0.196	0.589	0.185	0.269
150	0.159	0.580	0.182	0.242
185	0.127	0.562	0.177	0.218
240	0.0972	0.547	0.172	0.197
300	0.0779	0.542	0.170	0.187
400	0.0616	0.529	0.166	0.177
500	0.0488	0.518	0.163	0.170
630	0.0388	0.504	0.158	0.163
800	0.0315	0.494	0.155	0.158

35 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (100% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 35 kV
AC test voltage	: 69 kV

Application

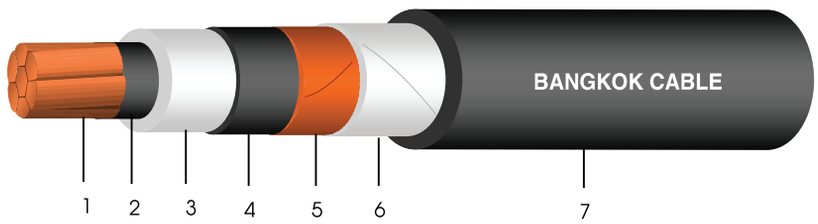
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

Conductor			Thickness of insulation	Diameter over insulation	Thickness of sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation resistance at 15.6°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 (Min.)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
50	6	8.33	8.76	27.7	1.78	35	0.387	2,830	255	215	1,410	500
70	12	9.73	8.76	29.1	1.78	36	0.268	2,597	320	260	1,650	500
95	15	11.43	8.76	30.8	1.78	38	0.193	2,364	385	315	1,970	500
120	18	12.95	8.76	32.3	1.78	40	0.153	2,191	440	360	2,260	500
150	18	14.27	8.76	33.6	1.78	41	0.124	2,061	500	400	2,560	500
185	30	15.98	8.76	35.4	1.78	43	0.0991	1,914	580	455	2,970	500
240	34	18.47	8.76	37.8	1.78	45	0.0754	1,736	680	530	3,600	500
300	34	20.68	8.76	40.1	2.54	49	0.0601	1,604	780	600	4,430	500
400	53	23.39	8.76	42.8	2.54	52	0.0470	1,468	910	680	5,320	300
500	53	26.67	8.76	46.6	2.54	56	0.0366	1,311	1,060	780	6,510	300
630	53	30.22	8.76	50.2	2.54	60	0.0283	1,194	1,230	890	7,990	300
800	53	34.00	8.76	53.9	2.54	64	0.0221	1,090	1,410	1,000	9,800	200

35 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (100% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 35 kV
AC test voltage	: 69 kV

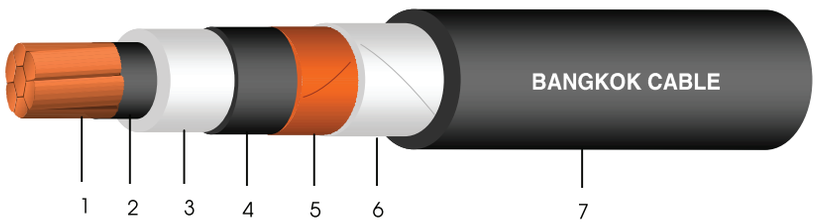
Application

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.)
50	0.494	0.661	0.208	0.535
70	0.342	0.635	0.200	0.396
95	0.246	0.614	0.193	0.313
120	0.196	0.599	0.188	0.271
150	0.159	0.585	0.184	0.243
185	0.127	0.571	0.180	0.220
240	0.0971	0.552	0.173	0.199
300	0.0779	0.546	0.172	0.188
400	0.0616	0.533	0.168	0.178
500	0.0488	0.522	0.164	0.171
630	0.0387	0.511	0.160	0.165
800	0.0315	0.500	0.157	0.160

35 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (133% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 35 kV
AC test voltage	: 84 kV

Application

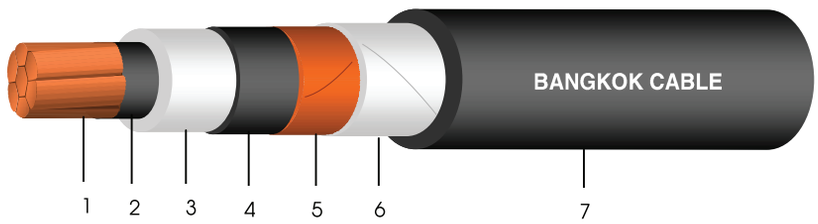
For general purpose power distribution in dry or wet location. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

B

Conductor			Thickness of insulation	Diameter over insulation	Thickness of sheath	Overall diameter	DC. Conductor resistance at 20°C	Insulation resistance at 15.6 °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 (Min.)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	A	kg/km (Approx.)	m/drum
50	6	8.33	10.67	31.7	1.78	39	0.387	3,184	255	215	1,640	500
70	12	9.73	10.67	33.1	1.78	40	0.268	2,935	315	260	1,890	500
95	15	11.43	10.67	34.8	1.78	42	0.193	2,685	380	310	2,220	500
120	18	12.95	10.67	36.3	1.78	44	0.153	2,497	440	360	2,510	500
150	18	14.27	10.67	37.6	2.54	47	0.124	2,356	500	400	3,000	500
185	30	15.98	10.67	39.3	2.54	49	0.0991	2,196	570	450	3,420	500
240	34	18.47	10.67	41.8	2.54	51	0.0754	2,000	680	530	4,080	500
300	34	20.68	10.67	44.0	2.54	53	0.0601	1,854	780	600	4,740	500
400	53	23.39	10.67	46.7	2.54	56	0.0470	1,703	900	680	5,650	300
500	53	26.67	10.67	50.6	2.54	60	0.0366	1,528	1,050	780	6,860	300
630	53	30.22	10.67	54.1	2.54	64	0.0283	1,395	1,220	890	8,370	300
800	53	34.00	10.67	57.9	2.54	68	0.0221	1,278	1,400	1,000	10,200	200

35 kV CV (CE optional)*

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE (133% INSULATION LEVELS)



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 (or copper wires)
6. Binding tape	:	Polyester tape
7. Sheath	:	Black Polyvinyl chloride (PVC), (Optional : PE)*

Reference Standard

ICEA S-93-639

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 35 kV
AC test voltage	: 84 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.)
50	0.494	0.682	0.214	0.538
70	0.342	0.656	0.206	0.399
95	0.246	0.634	0.199	0.317
120	0.196	0.618	0.194	0.276
150	0.159	0.612	0.192	0.249
185	0.127	0.598	0.188	0.227
240	0.0971	0.577	0.181	0.206
300	0.0779	0.562	0.176	0.193
400	0.0615	0.548	0.172	0.183
500	0.0487	0.536	0.168	0.175
630	0.0387	0.524	0.164	0.169
800	0.0314	0.512	0.161	0.164

PART B COPPER CONDUCTOR

SECTION 3 : HIGH VOLTAGE POWER CABLES PAGE NO.

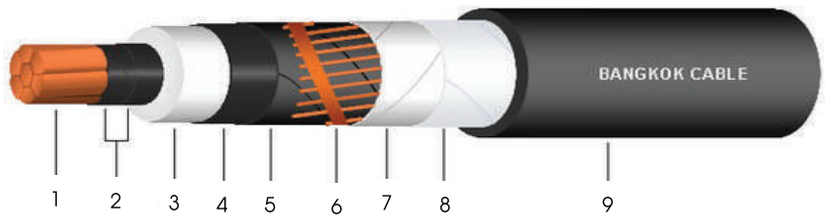
IEC 60840 & TIS 2202 STANDARD

1. 69 kV CE
1 CORE - 69 kV XLPE Insulated and PE Sheathed Underground Power Cable B 136

2. 115 kV CE
1 CORE - 115 kV XLPE Insulated and PE Sheathed Underground Power Cable B 138

69 kV CE

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular compact stranded annealed copper
2. Conductor screen : Semi-conductive tape with extruded Semi-conductive cross-linked polyethylene compound
3. Insulation : Cross-linked polyethylene (XLPE) compound
4. Insulation screen : Semi-conductive cross-linked polyethylene compound
5. Water blocking tape : Semi-conductive water blocking tape
6. Metallic screen : Copper wires with copper contact tape
7. Water blocking and Cushioning tape : Non-conductive water blocking tape
8. Radial water barrier : Copolymer aluminium tape
9. Sheath : Black Polyethylene (PE) , (Optional : with RIB)

Reference Standard

IEC 60840

TIS 2202

Classification

Maximum conductor temperature : 90°C

Maximum circuit voltage : 72.5 kV

AC test voltage : 90 kV

Application

Preferably laid in substations, factories and urban area. The cable shall be suitable for use in ducts, trays and direct burial in ground, subjected to immerse in water all time.

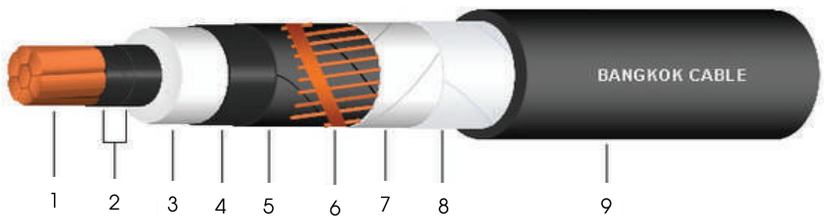
B

Conductor			Thickness of conductor screen	Thickness of insulation	Diameter over insulation	Thickness of insulation screen	Area of metallic screen*	Thickness of sheath	Overall diameter (Excluding Rib)	DC. Conductor resistance at 20°C	Capacitance	Current rating direct burial in ground at 30°C	Cable weight (Excluding Rib)	Standard length
Cross-sectional area	No. of wires	Diameter												
mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm^2	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	µF/km (Nominal)	A	kg/km (Approx.)	m/drum
400	53	23.39	1.5	11.0	49.4	1.5	120	3.5	68	0.0470	0.222	690	7,260	500
500	53	26.67	1.5	11.0	52.6	1.5	120	3.5	72	0.0366	0.246	790	8,440	500
630	53	30.22	1.5	11.0	56.2	1.5	120	3.5	75	0.0283	0.269	900	9,960	300
800	53	34.00	1.5	11.0	60.0	1.5	120	3.5	79	0.0221	0.292	1010	11,790	300

* The area of metallic screen can be designed upon request by not less than 95 mm^2

69 kV CE

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	: Circular compact stranded annealed copper
2. Conductor screen	: Semi-conductive tape with extruded Semi-conductive cross-linked polyethylene compound
3. Insulation	: Cross-linked polyethylene (XLPE) compound
4. Insulation screen	: Semi-conductive cross-linked polyethylene compound
5. Water blocking tape	: Semi-conductive water blocking tape
6. Metallic screen	: Copper wires with copper contact tape
7. Water blocking and Cushioning tape	: Non-conductive water blocking tape
8. Radial water barrier	: Copolymer aluminium tape
9. Sheath	: Black Polyethylene (PE) , (Optional : with RIB)

Reference Standard

IEC 60840

TIS 2202

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 72.5 kV
AC test voltage	: 90 kV

Application

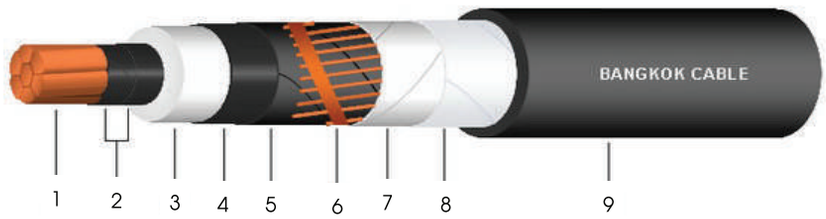
Preferably laid in substations, factories and urban area. The cable shall be suitable for use in ducts, trays and direct burial in ground, subjected to immerse in water all time.

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.)
400	0.0614	0.587	0.184	0.194
500	0.0486	0.572	0.180	0.186
630	0.0386	0.555	0.174	0.179
800	0.0313	0.542	0.170	0.173

* The area of metallic screen can be designed upon request by not less than 95 mm^2

115 kV CE

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor : Circular compact stranded annealed copper
2. Conductor screen : Semi-conductive tape with extruded Semi-conductive cross-linked polyethylene compound
3. Insulation : Cross-linked polyethylene (XLPE) compound
4. Insulation screen : Semi-conductive cross-linked polyethylene compound
5. Water blocking tape : Semi-conductive water blocking tape
6. Metallic screen : Copper wires with copper contact tape
7. Water blocking and Cushioning tape : Non-conductive water blocking tape
8. Radial water barrier : Copolymer aluminium tape
9. Sheath : Black Polyethylene (PE) , (Optional : with RIB)

Reference Standard

IEC 60840

TIS 2202

Classification

Maximum conductor temperature : 90°C

Maximum circuit voltage : 123 kV

AC test voltage : 160 kV

Application

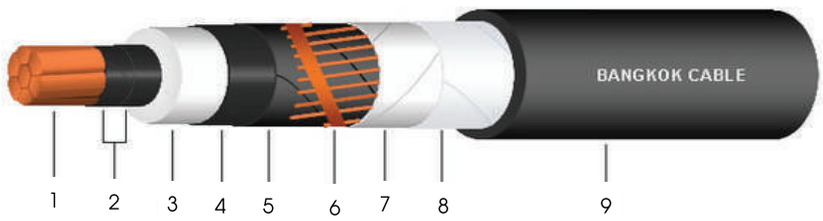
Preferably laid in substations, factories and urban area. The cable shall be suitable for use in ducts, trays and direct burial in ground, subjected to immerse in water all time.

Conductor			Thickness of conductor screen	Thickness of insulation	Diameter over insulation	Thickness of insulation screen	Area of metallic screen*	Thickness of sheath	Overall diameter (Excluding Rib)	DC. Conductor resistance at 20°C	Capacitance	Current rating direct burial in ground at 30°C	Cable weight (Excluding Rib)	Standard length
Cross-sectional area	No. of wires	Diameter												
mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm^2	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	µF/km (Nominal)	A	kg/km (Approx.)	m/drum
400	53	23.39	1.5	16.0	59.4	1.5	120	3.5	78	0.0470	0.170	690	8,270	500
500	53	26.67	1.5	16.0	62.6	1.5	120	3.5	82	0.0366	0.187	785	9,500	500
630	53	30.22	1.5	16.0	66.2	1.5	120	3.5	85	0.0283	0.203	890	11,060	300
800	53	34.00	1.5	16.0	70.0	1.5	120	3.5	89	0.0221	0.219	1010	12,950	300

* The area of metallic screen can be designed upon request by not less than 95 mm^2

115 kV CE

1 CORE - CROSSLINKED POLYETHYLENE POWER CABLE



Construction

1. Conductor	: Circular compact stranded annealed copper
2. Conductor screen	: Semi-conductive tape with extruded Semi-conductive cross-linked polyethylene compound
3. Insulation	: Cross-linked polyethylene (XLPE) compound
4. Insulation screen	: Semi-conductive cross-linked polyethylene compound
5. Water blocking tape	: Semi-conductive water blocking tape
6. Metallic screen	: Copper wires with copper contact tape
7. Water blocking and Cushioning tape	: Non-conductive water blocking tape
8. Radial water barrier	: Copolymer aluminium tape
9. Sheath	: Black Polyethylene (PE) , (Optional : with RIB)

Reference Standard

IEC 60840

TIS 2202

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 123 kV
AC test voltage	: 160 kV

Application

Preferably laid in substations, factories and urban area. The cable shall be suitable for use in ducts, trays and direct burial in ground, subjected to immerse in water all time.

Conductor cross-sectional area	AC Resistance of conductor at 90°C	Inductance	Reactance	Impedance
mm^2	Ω/km (Approx.)	mH/km (Approx.)	Ω/km (Approx.)	Ω/km (Approx.)
400	0.0614	0.614	0.193	0.203
500	0.0486	0.598	0.188	0.194
630	0.0385	0.580	0.182	0.186
800	0.0312	0.566	0.178	0.181

* The area of metallic screen can be designed upon request by not less than 95 mm^2

PART B COPPER CONDUCTOR

SECTION 4 : CONTROL CABLES PAGE NO.

BCC'S STANDARD

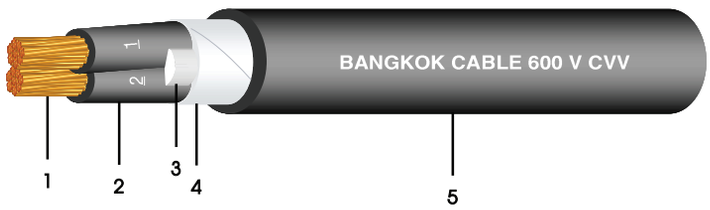
1. 600 V CVV
2-48 CORES - 600 V PVC Insulated and PVC Sheathed Flexible Control Cable B 141-B 149

2. 600 V CVV-S
2-48 CORES - 600 V PVC Insulated and PVC Sheathed Flexible Control Cable with Shield B 150-B 158

3. 600 V CVV-SWA
2-30 CORES - 600 V PVC Insulated and PVC Sheathed Flexible Control Cable with Armour B 159-B 164

600 V CVV

2-48 CORES - POLYVINYL CHLORIDE FLEXIBLE CONTROL CABLE



Construction

1. Conductor : Bunched stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC), Black colour with marking number on the surface of insulation
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

BCC's Standard

Classification

Maximum conductor temperature : 70°C
Maximum circuit voltage : 600 V
AC test voltage : 2,000 V

Application

For supervisory electrical equipment, station control circuits, outdoor, suitable installation in the dry or wet cable trenches.

B

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.2	7.0	39.0	50	50	500
	0.75	0.21	1.13	0.6	1.2	8.0	26.0	50	70	500
	1	0.21	1.31	0.6	1.2	8.0	19.5	50	80	500
2	1.5	0.26	1.58	0.6	1.2	8.5	13.3	50	90	500
	2.5	0.26	2.04	0.7	1.2	10.0	7.98	50	130	500
	4	0.31	2.59	0.8	1.2	11.5	4.95	50	190	500
	6	0.31	3.60	0.8	1.4	14.0	3.30	50	270	500
	0.5	0.21	0.92	0.6	1.2	8.0	39.0	50	70	500
	0.75	0.21	1.13	0.6	1.2	8.0	26.0	50	80	500
	1	0.21	1.31	0.6	1.2	8.5	19.5	50	90	500
3	1.5	0.26	1.58	0.6	1.2	9.0	13.3	50	120	500
	2.5	0.26	2.04	0.7	1.2	10.5	7.98	50	170	500
	4	0.31	2.59	0.8	1.2	12.5	4.95	50	240	500
	6	0.31	3.60	0.8	1.4	15.0	3.30	50	350	500

600 V CVV

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.2	8.5	39.0	50	80	500
	0.75	0.21	1.13	0.6	1.2	9.0	26.0	50	100	500
	1	0.21	1.31	0.6	1.2	9.5	19.5	50	120	500
4	1.5	0.26	1.58	0.6	1.2	10.0	13.3	50	140	500
	2.5	0.26	2.04	0.7	1.2	11.5	7.98	50	210	500
	4	0.31	2.59	0.8	1.4	14.0	4.95	50	310	500
	6	0.31	3.60	0.8	1.4	16.5	3.30	50	440	500
	0.5	0.21	0.92	0.6	1.2	9.0	39.0	50	100	500
	0.75	0.21	1.13	0.6	1.2	9.5	26.0	50	120	500
	1	0.21	1.31	0.6	1.2	10.0	19.5	50	140	500
5	1.5	0.26	1.58	0.6	1.2	11.0	13.3	50	170	500
	2.5	0.26	2.04	0.7	1.4	13.0	7.98	50	270	500
	4	0.31	2.59	0.8	1.4	15.0	4.95	50	390	500
	6	0.31	3.60	0.8	1.4	18.0	3.30	50	540	500
	0.5	0.21	0.92	0.6	1.2	9.5	39.0	50	110	500
	0.75	0.21	1.13	0.6	1.2	10.5	26.0	50	130	500
	1	0.21	1.31	0.6	1.2	11.0	19.5	50	150	500
6	1.5	0.26	1.58	0.6	1.2	11.5	13.3	50	190	500
	2.5	0.26	2.04	0.7	1.4	14.0	7.98	50	290	500
	4	0.31	2.59	0.8	1.4	16.5	4.95	50	430	500
	6	0.31	3.60	0.8	1.4	19.5	3.30	50	590	500
	0.5	0.21	0.92	0.6	1.2	9.5	39.0	50	110	500
	0.75	0.21	1.13	0.6	1.2	10.5	26.0	50	140	500
	1	0.21	1.31	0.6	1.2	11.0	19.5	50	160	500
7	1.5	0.26	1.58	0.6	1.2	11.5	13.3	50	200	500
	2.5	0.26	2.04	0.7	1.4	14.0	7.98	50	310	500
	4	0.31	2.59	0.8	1.4	16.5	4.95	50	460	500
	6	0.31	3.60	0.8	1.4	19.5	3.30	50	640	500
	0.5	0.21	0.92	0.6	1.2	10.5	39.0	50	130	500
	0.75	0.21	1.13	0.6	1.2	11.0	26.0	50	150	500
	1	0.21	1.31	0.6	1.2	11.5	19.5	50	180	500
8	1.5	0.26	1.58	0.6	1.4	13.0	13.3	50	240	500
	2.5	0.26	2.04	0.7	1.4	15.0	7.98	50	360	500
	4	0.31	2.59	0.8	1.4	18.0	4.95	50	520	500
	6	0.31	3.60	0.8	1.4	21.0	3.30	50	730	500
	0.5	0.21	0.92	0.6	1.2	11.0	39.0	50	140	500
	0.75	0.21	1.13	0.6	1.2	12.0	26.0	50	170	500
	1	0.21	1.31	0.6	1.4	13.0	19.5	50	210	500
9	1.5	0.26	1.58	0.6	1.4	14.0	13.3	50	270	500
	2.5	0.26	2.04	0.7	1.4	16.5	7.98	50	400	500
	4	0.31	2.59	0.8	1.4	19.0	4.95	50	590	500
	6	0.31	3.60	0.8	1.4	23.0	3.30	50	820	500

600 V CVV

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω /km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.2	12.0	39.0	50	150	500
	0.75	0.21	1.13	0.6	1.4	13.0	26.0	50	200	500
	1	0.21	1.31	0.6	1.4	14.0	19.5	50	230	500
10	1.5	0.26	1.58	0.6	1.4	15.0	13.3	50	290	500
	2.5	0.26	2.04	0.7	1.4	17.5	7.98	50	440	500
	4	0.31	2.59	0.8	1.4	21.0	4.95	50	640	500
	6	0.31	3.60	0.8	1.8	25.5	3.30	50	950	500
	0.5	0.21	0.92	0.6	1.2	12.5	39.0	50	170	500
	0.75	0.21	1.13	0.6	1.4	13.5	26.0	50	220	500
	1	0.21	1.31	0.6	1.4	14.5	19.5	50	260	500
11	1.5	0.26	1.58	0.6	1.4	15.5	13.3	50	330	500
	2.5	0.26	2.04	0.7	1.4	18.5	7.98	50	490	500
	4	0.31	2.59	0.8	1.4	21.5	4.95	50	720	500
	6	0.31	3.60	0.8	1.8	26.5	3.30	50	1,050	500
	0.5	0.21	0.92	0.6	1.2	12.5	39.0	50	170	500
	0.75	0.21	1.13	0.6	1.4	13.5	26.0	50	230	500
	1	0.21	1.31	0.6	1.4	14.5	19.5	50	270	500
12	1.5	0.26	1.58	0.6	1.4	15.5	13.3	50	340	500
	2.5	0.26	2.04	0.7	1.4	18.5	7.98	50	510	500
	4	0.31	2.59	0.8	1.4	21.5	4.95	50	750	500
	6	0.31	3.60	0.8	1.8	26.5	3.30	50	1,100	500
	0.5	0.21	0.92	0.6	1.4	13.5	39.0	50	200	500
	0.75	0.21	1.13	0.6	1.4	14.0	26.0	50	250	500
	1	0.21	1.31	0.6	1.4	15.0	19.5	50	290	500
13	1.5	0.26	1.58	0.6	1.4	16.0	13.3	50	370	500
	2.5	0.26	2.04	0.7	1.4	19.0	7.98	50	560	500
	4	0.31	2.59	0.8	1.4	22.5	4.95	50	830	500
	6	0.31	3.60	0.8	1.8	28.0	3.30	50	1,210	500
	0.5	0.21	0.92	0.6	1.4	13.5	39.0	50	210	500
	0.75	0.21	1.13	0.6	1.4	14.0	26.0	50	260	500
	1	0.21	1.31	0.6	1.4	15.0	19.5	50	300	500
14	1.5	0.26	1.58	0.6	1.4	16.0	13.3	50	390	500
	2.5	0.26	2.04	0.7	1.4	19.0	7.98	50	580	500
	4	0.31	2.59	0.8	1.4	22.5	4.95	50	860	500
	6	0.31	3.60	0.8	1.8	28.0	3.30	50	1,270	500
	0.5	0.21	0.92	0.6	1.4	14.0	39.0	50	230	500
	0.75	0.21	1.13	0.6	1.4	15.0	26.0	50	280	500
	1	0.21	1.31	0.6	1.4	15.5	19.5	50	330	500
15	1.5	0.26	1.58	0.6	1.4	17.0	13.3	50	420	500
	2.5	0.26	2.04	0.7	1.4	20.0	7.98	50	640	500
	4	0.31	2.59	0.8	1.8	24.5	4.95	50	990	500
	6	0.31	3.60	0.8	1.8	29.5	3.30	50	1,390	500

600 V CVV

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω /km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.4	14.0	39.0	50	230	500
	0.75	0.21	1.13	0.6	1.4	15.0	26.0	50	290	500
	1	0.21	1.31	0.6	1.4	15.5	19.5	50	340	500
16	1.5	0.26	1.58	0.6	1.4	17.0	13.3	50	440	500
	2.5	0.26	2.04	0.7	1.4	20.0	7.98	50	660	500
	4	0.31	2.59	0.8	1.8	24.5	4.95	50	1,030	500
	6	0.31	3.60	0.8	1.8	29.5	3.30	50	1,440	500
	0.5	0.21	0.92	0.6	1.4	14.5	39.0	50	260	500
	0.75	0.21	1.13	0.6	1.4	15.5	26.0	50	310	500
	1	0.21	1.31	0.6	1.4	16.5	19.5	50	370	500
17	1.5	0.26	1.58	0.6	1.4	18.0	13.3	50	470	500
	2.5	0.26	2.04	0.7	1.4	21.5	7.98	50	720	500
	4	0.31	2.59	0.8	1.8	26.0	4.95	50	1,120	500
	6	0.31	3.60	0.8	1.8	31.0	3.30	50	1,560	500
	0.5	0.21	0.92	0.6	1.4	14.5	39.0	50	260	500
	0.75	0.21	1.13	0.6	1.4	15.5	26.0	50	320	500
	1	0.21	1.31	0.6	1.4	16.5	19.5	50	380	500
18	1.5	0.26	1.58	0.6	1.4	18.0	13.3	50	490	500
	2.5	0.26	2.04	0.7	1.4	21.5	7.98	50	740	500
	4	0.31	2.59	0.8	1.8	26.0	4.95	50	1,150	500
	6	0.31	3.60	0.8	1.8	31.0	3.30	50	1,610	500
	0.5	0.21	0.92	0.6	1.4	14.5	39.0	50	260	500
	0.75	0.21	1.13	0.6	1.4	15.5	26.0	50	330	500
	1	0.21	1.31	0.6	1.4	16.5	19.5	50	390	500
19	1.5	0.26	1.58	0.6	1.4	18.0	13.3	50	500	500
	2.5	0.26	2.04	0.7	1.4	21.5	7.98	50	760	500
	4	0.31	2.59	0.8	1.8	26.0	4.95	50	1,180	500
	6	0.31	3.60	0.8	1.8	31.0	3.30	50	1,670	500
	0.5	0.21	0.92	0.6	1.4	15.5	39.0	50	280	500
	0.75	0.21	1.13	0.6	1.4	16.5	26.0	50	350	500
	1	0.21	1.31	0.6	1.4	17.5	19.5	50	420	500
20	1.5	0.26	1.58	0.6	1.4	19.0	13.3	50	540	500
	2.5	0.26	2.04	0.7	1.4	22.5	7.98	50	820	500
	4	0.31	2.59	0.8	1.8	27.5	4.95	50	1,280	500
	6	0.31	3.60	0.8	1.8	32.5	3.30	50	1,800	500
	0.5	0.21	0.92	0.6	1.4	15.5	39.0	50	290	500
	0.75	0.21	1.13	0.6	1.4	16.5	26.0	50	360	500
	1	0.21	1.31	0.6	1.4	17.5	19.5	50	430	500
21	1.5	0.26	1.58	0.6	1.4	19.0	13.3	50	550	500
	2.5	0.26	2.04	0.7	1.4	22.5	7.98	50	830	500
	4	0.31	2.59	0.8	1.8	27.5	4.95	50	1,300	500
	6	0.31	3.60	0.8	1.8	32.5	3.30	50	1,830	500

600 V CVV

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.4	16.0	39.0	50	310	500
	0.75	0.21	1.13	0.6	1.4	17.0	26.0	50	390	500
	1	0.21	1.31	0.6	1.4	18.0	19.5	50	460	500
22	1.5	0.26	1.58	0.6	1.4	19.5	13.3	50	600	500
	2.5	0.26	2.04	0.7	1.8	24.5	7.98	50	950	500
	4	0.31	2.59	0.8	1.8	28.5	4.95	50	1,410	500
	6	0.31	3.60	0.8	1.8	34.5	3.30	50	1,980	500
	0.5	0.21	0.92	0.6	1.4	16.0	39.0	50	310	500
	0.75	0.21	1.13	0.6	1.4	17.0	26.0	50	390	500
	1	0.21	1.31	0.6	1.4	18.0	19.5	50	460	500
23	1.5	0.26	1.58	0.6	1.4	19.5	13.3	50	600	500
	2.5	0.26	2.04	0.7	1.8	24.5	7.98	50	960	500
	4	0.31	2.59	0.8	1.8	28.5	4.95	50	1,420	500
	6	0.31	3.60	0.8	1.8	34.5	3.30	50	2,000	500
	0.5	0.21	0.92	0.6	1.4	17.0	39.0	50	320	500
	0.75	0.21	1.13	0.6	1.4	18.0	26.0	50	410	500
	1	0.21	1.31	0.6	1.4	19.0	19.5	50	480	500
24	1.5	0.26	1.58	0.6	1.4	21.0	13.3	50	620	500
	2.5	0.26	2.04	0.7	1.8	26.0	7.98	50	1,000	500
	4	0.31	2.59	0.8	1.8	30.5	4.95	50	1,480	500
	6	0.31	3.60	0.8	2.2	37.5	3.30	50	2,150	500
	0.5	0.21	0.92	0.6	1.4	17.0	39.0	50	350	500
	0.75	0.21	1.13	0.6	1.4	18.5	26.0	50	430	500
	1	0.21	1.31	0.6	1.4	19.5	19.5	50	510	500
25	1.5	0.26	1.58	0.6	1.4	21.5	13.3	50	660	500
	2.5	0.26	2.04	0.7	1.8	26.5	7.98	50	1,060	500
	4	0.31	2.59	0.8	1.8	31.0	4.95	50	1,570	500
	6	0.31	3.60	0.8	2.2	38.0	3.30	50	2,280	500
	0.5	0.21	0.92	0.6	1.4	17.0	39.0	50	350	500
	0.75	0.21	1.13	0.6	1.4	18.5	26.0	50	440	500
	1	0.21	1.31	0.6	1.4	19.5	19.5	50	520	500
26	1.5	0.26	1.58	0.6	1.4	21.5	13.3	50	670	500
	2.5	0.26	2.04	0.7	1.8	26.5	7.98	50	1,080	500
	4	0.31	2.59	0.8	1.8	31.0	4.95	50	1,600	500
	6	0.31	3.60	0.8	2.2	38.0	3.30	50	2,340	500
	0.5	0.21	0.92	0.6	1.4	17.0	39.0	50	350	500
	0.75	0.21	1.13	0.6	1.4	18.5	26.0	50	440	500
	1	0.21	1.31	0.6	1.4	19.5	19.5	50	530	500
27	1.5	0.26	1.58	0.6	1.4	21.5	13.3	50	690	500
	2.5	0.26	2.04	0.7	1.8	26.5	7.98	50	1,100	500
	4	0.31	2.59	0.8	1.8	31.0	4.95	50	1,640	500
	6	0.31	3.60	0.8	2.2	38.0	3.30	50	2,390	500

600 V CVV

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω /km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.4	18.0	39.0	50	380	500
	0.75	0.21	1.13	0.6	1.4	19.0	26.0	50	470	500
	1	0.21	1.31	0.6	1.4	20.0	19.5	50	560	500
28	1.5	0.26	1.58	0.6	1.4	22.0	13.3	50	730	500
	2.5	0.26	2.04	0.7	1.8	27.5	7.98	50	1,170	500
	4	0.31	2.59	0.8	1.8	32.0	4.95	50	1,740	500
	6	0.31	3.60	0.8	2.2	39.5	3.30	50	2,520	500
	0.5	0.21	0.92	0.6	1.4	18.0	39.0	50	380	500
	0.75	0.21	1.13	0.6	1.4	19.0	26.0	50	480	500
	1	0.21	1.31	0.6	1.4	20.0	19.5	50	570	500
29	1.5	0.26	1.58	0.6	1.4	22.0	13.3	50	740	500
	2.5	0.26	2.04	0.7	1.8	27.5	7.98	50	1,190	500
	4	0.31	2.59	0.8	1.8	32.0	4.95	50	1,770	500
	6	0.31	3.60	0.8	2.2	39.5	3.30	50	2,570	500
	0.5	0.21	0.92	0.6	1.4	18.0	39.0	50	390	500
	0.75	0.21	1.13	0.6	1.4	19.0	26.0	50	490	500
	1	0.21	1.31	0.6	1.4	20.0	19.5	50	580	500
30	1.5	0.26	1.58	0.6	1.4	22.0	13.3	50	750	500
	2.5	0.26	2.04	0.7	1.8	27.5	7.98	50	1,200	500
	4	0.31	2.59	0.8	1.8	32.0	4.95	50	1,800	500
	6	0.31	3.60	0.8	2.2	39.5	3.30	50	2,630	500
	0.5	0.21	0.92	0.6	1.4	18.5	39.0	50	410	500
	0.75	0.21	1.13	0.6	1.4	20.0	26.0	50	520	500
	1	0.21	1.31	0.6	1.4	21.0	19.5	50	620	500
31	1.5	0.26	1.58	0.6	1.8	23.5	13.3	50	840	500
	2.5	0.26	2.04	0.7	1.8	28.5	7.98	50	1,280	500
	4	0.31	2.59	0.8	1.8	33.5	4.95	50	1,910	500
	6	0.31	3.60	0.8	2.2	41.0	3.30	50	2,770	400
	0.5	0.21	0.92	0.6	1.4	18.5	39.0	50	420	500
	0.75	0.21	1.13	0.6	1.4	20.0	26.0	50	520	500
	1	0.21	1.31	0.6	1.4	21.0	19.5	50	630	500
32	1.5	0.26	1.58	0.6	1.8	23.5	13.3	50	860	500
	2.5	0.26	2.04	0.7	1.8	28.5	7.98	50	1,300	500
	4	0.31	2.59	0.8	1.8	33.5	4.95	50	1,940	500
	6	0.31	3.60	0.8	2.2	41.0	3.30	50	2,830	400
	0.5	0.21	0.92	0.6	1.4	18.5	39.0	50	420	500
	0.75	0.21	1.13	0.6	1.4	20.0	26.0	50	530	500
	1	0.21	1.31	0.6	1.4	21.0	19.5	50	640	500
33	1.5	0.26	1.58	0.6	1.8	23.5	13.3	50	870	500
	2.5	0.26	2.04	0.7	1.8	28.5	7.98	50	1,320	500
	4	0.31	2.59	0.8	1.8	33.5	4.95	50	1,980	500
	6	0.31	3.60	0.8	2.2	41.0	3.30	50	2,880	400

600 V CVV

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.4	19.0	39.0	50	450	500
	0.75	0.21	1.13	0.6	1.4	20.5	26.0	50	560	500
	1	0.21	1.31	0.6	1.4	22.0	19.5	50	670	500
34	1.5	0.26	1.58	0.6	1.8	24.5	13.3	50	920	500
	2.5	0.26	2.04	0.7	1.8	29.5	7.98	50	1,400	500
	4	0.31	2.59	0.8	2.2	35.5	4.95	50	2,150	500
	6	0.31	3.60	0.8	2.2	42.5	3.30	50	3,030	400
	0.5	0.21	0.92	0.6	1.4	19.0	39.0	50	450	500
	0.75	0.21	1.13	0.6	1.4	20.5	26.0	50	570	500
	1	0.21	1.31	0.6	1.4	22.0	19.5	50	680	500
35	1.5	0.26	1.58	0.6	1.8	24.5	13.3	50	930	500
	2.5	0.26	2.04	0.7	1.8	29.5	7.98	50	1,420	500
	4	0.31	2.59	0.8	2.2	35.5	4.95	50	2,190	500
	6	0.31	3.60	0.8	2.2	42.5	3.30	50	3,080	400
	0.5	0.21	0.92	0.6	1.4	19.0	39.0	50	460	500
	0.75	0.21	1.13	0.6	1.4	20.5	26.0	50	580	500
	1	0.21	1.31	0.6	1.4	22.0	19.5	50	690	500
36	1.5	0.26	1.58	0.6	1.8	24.5	13.3	50	940	500
	2.5	0.26	2.04	0.7	1.8	29.5	7.98	50	1,440	500
	4	0.31	2.59	0.8	2.2	35.5	4.95	50	2,220	500
	6	0.31	3.60	0.8	2.2	42.5	3.30	50	3,130	400
	0.5	0.21	0.92	0.6	1.4	19.0	39.0	50	460	500
	0.75	0.21	1.13	0.6	1.4	20.5	26.0	50	580	500
	1	0.21	1.31	0.6	1.4	22.0	19.5	50	700	500
37	1.5	0.26	1.58	0.6	1.8	24.5	13.3	50	950	500
	2.5	0.26	2.04	0.7	1.8	29.5	7.98	50	1,460	500
	4	0.31	2.59	0.8	2.2	35.5	4.95	50	2,250	500
	6	0.31	3.60	0.8	2.2	42.5	3.30	50	3,180	400
	0.5	0.21	0.92	0.6	1.4	20.0	39.0	50	490	500
	0.75	0.21	1.13	0.6	1.4	21.5	26.0	50	620	500
	1	0.21	1.31	0.6	1.4	22.5	19.5	50	740	500
38	1.5	0.26	1.58	0.6	1.8	25.5	13.3	50	1,000	500
	2.5	0.26	2.04	0.7	1.8	30.5	7.98	50	1,530	500
	4	0.31	2.59	0.8	2.2	37.0	4.95	50	2,370	500
	6	0.31	3.60	0.8	2.2	44.5	3.30	50	3,340	400
	0.5	0.21	0.92	0.6	1.4	20.0	39.0	50	490	500
	0.75	0.21	1.13	0.6	1.4	21.5	26.0	50	620	500
	1	0.21	1.31	0.6	1.4	22.5	19.5	50	450	500
39	1.5	0.26	1.58	0.6	1.8	25.5	13.3	50	1,020	500
	2.5	0.26	2.04	0.7	1.8	30.5	7.98	50	1,550	500
	4	0.31	2.59	0.8	2.2	37.0	4.95	50	2,400	500
	6	0.31	3.60	0.8	2.2	44.5	3.30	50	3,390	400

600 V CVV

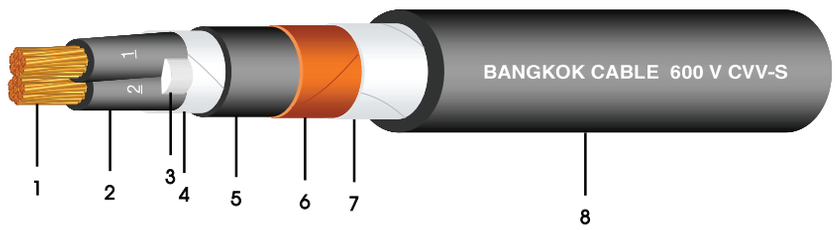
No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.4	20.0	39.0	50	490	500
	0.75	0.21	1.13	0.6	1.4	21.5	26.0	50	630	500
	1	0.21	1.31	0.6	1.4	22.5	19.5	50	750	500
40	1.5	0.26	1.58	0.6	1.8	25.5	13.3	50	1,020	500
	2.5	0.26	2.04	0.7	1.8	30.5	7.98	50	1,570	500
	4	0.31	2.59	0.8	2.2	37.0	4.95	50	2,420	500
	6	0.31	3.60	0.8	2.2	44.5	3.30	50	3,430	400
	0.5	0.21	0.92	0.6	1.4	20.5	39.0	50	520	500
	0.75	0.21	1.13	0.6	1.4	22.0	26.0	50	660	500
	1	0.21	1.31	0.6	1.8	24.5	19.5	50	840	500
41	1.5	0.26	1.58	0.6	1.8	26.5	13.3	50	1,080	500
	2.5	0.26	2.04	0.7	1.8	31.5	7.98	50	1,650	500
	4	0.31	2.59	0.8	2.2	38.5	4.95	50	2,550	500
	6	0.31	3.60	0.8	2.2	46.0	3.30	50	3,600	400
	0.5	0.21	0.92	0.6	1.4	20.5	39.0	50	530	500
	0.75	0.21	1.13	0.6	1.4	22.0	26.0	50	670	500
	1	0.21	1.31	0.6	1.8	24.5	19.5	50	850	500
42	1.5	0.26	1.58	0.6	1.8	26.5	13.3	50	1,090	500
	2.5	0.26	2.04	0.7	1.8	31.5	7.98	50	1,670	500
	4	0.31	2.59	0.8	2.2	38.5	4.95	50	2,590	500
	6	0.31	3.60	0.8	2.2	46.0	3.30	50	3,650	400
	0.5	0.21	0.92	0.6	1.4	20.5	39.0	50	530	500
	0.75	0.21	1.13	0.6	1.4	22.0	26.0	50	670	500
	1	0.21	1.31	0.6	1.8	24.5	19.5	50	850	500
43	1.5	0.26	1.58	0.6	1.8	26.5	13.3	50	1,100	500
	2.5	0.26	2.04	0.7	1.8	31.5	7.98	50	1,680	500
	4	0.31	2.59	0.8	2.2	38.5	4.95	50	2,600	500
	6	0.31	3.60	0.8	2.2	46.0	3.30	50	3,680	400
	0.5	0.21	0.92	0.6	1.4	21.5	39.0	50	540	500
	0.75	0.21	1.13	0.6	1.4	23.0	26.0	50	690	500
	1	0.21	1.31	0.6	1.8	25.5	19.5	50	870	500
44	1.5	0.26	1.58	0.6	1.8	27.5	13.3	50	1,120	500
	2.5	0.26	2.04	0.7	1.8	33.0	7.98	50	1,720	500
	4	0.31	2.59	0.8	2.2	40.0	4.95	50	2,660	500
	6	0.31	3.60	0.8	2.6	49.0	3.30	50	3,850	400
	0.5	0.21	0.92	0.6	1.4	21.5	39.0	50	570	500
	0.75	0.21	1.13	0.6	1.4	23.5	26.0	50	730	500
	1	0.21	1.31	0.6	1.8	25.5	19.5	50	920	500
45	1.5	0.26	1.58	0.6	1.8	28.0	13.3	50	1,190	500
	2.5	0.26	2.04	0.7	1.8	33.5	7.98	50	1,820	500
	4	0.31	2.59	0.8	2.2	40.5	4.95	50	2,800	500
	6	0.31	3.60	0.8	2.6	50.0	3.30	50	4,040	400

600 V CVV

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.4	21.5	39.0	50	570	500
	0.75	0.21	1.13	0.6	1.4	23.5	26.0	50	720	500
	1	0.21	1.31	0.6	1.8	25.5	19.5	50	920	500
46	1.5	0.26	1.58	0.6	1.8	28.0	13.3	50	1,190	500
	2.5	0.26	2.04	0.7	1.8	33.5	7.98	50	1,820	500
	4	0.31	2.59	0.8	2.2	40.5	4.95	50	2,800	500
	6	0.31	3.60	0.8	2.6	50.0	3.30	50	4,060	400
	0.5	0.21	0.92	0.6	1.4	21.5	39.0	50	580	500
	0.75	0.21	1.13	0.6	1.4	23.5	26.0	50	730	500
	1	0.21	1.31	0.6	1.8	25.5	19.5	50	930	500
47	1.5	0.26	1.58	0.6	1.8	28.0	13.3	50	1,200	500
	2.5	0.26	2.04	0.7	1.8	33.5	7.98	50	1,840	500
	4	0.31	2.59	0.8	2.2	40.5	4.95	50	2,840	500
	6	0.31	3.60	0.8	2.6	50.0	3.30	50	4,100	400
	0.5	0.21	0.92	0.6	1.4	21.5	39.0	50	580	500
	0.75	0.21	1.13	0.6	1.8	24.5	26.0	50	780	500
	1	0.21	1.31	0.6	1.8	25.5	19.5	50	930	500
48	1.5	0.26	1.58	0.6	1.8	28.0	13.3	50	1,210	500
	2.5	0.26	2.04	0.7	1.8	33.5	7.98	50	1,860	500
	4	0.31	2.59	0.8	2.2	40.5	4.95	50	2,870	500
	6	0.31	3.60	0.8	2.6	50.0	3.30	50	4,160	400

600 V CVV-S

2-48 CORES - POLYVINYL CHLORIDE FLEXIBLE CONTROL CABLE WITH SHIELD



Construction

1. Conductor	:	Bunched stranded annealed copper
2. Insulation	:	Polyvinyl chloride (PVC), Black colour with marking number on the surface of insulation
3. Filler	:	Polypropylene (Non-hygroscopic material)
4. Binding tape	:	Polyester tape
5. Innner sheath	:	Polyvinyl chloride (PVC), Black colour
6. Shield	:	Annealed copper tape
7. Binding tape	:	Polyester tape
8. Outer sheath	:	Polyvinyl chloride (PVC), Black colour

Reference Standard :

BCC's Standard

Classification

Maximum conductor temperature	: 70°C
Maximum circuit voltage	: 600 V
AC test voltage	: 2,000 V

Application

For supervisory electrical equipment, station control circuits, outdoor, suitable installation in dry or wet cable trenches.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	0.9	9.5	39.0	50	110	500
	0.75	0.21	1.13	0.6	1.0	1.2	10.5	26.0	50	140	500
	1	0.21	1.31	0.6	1.0	1.2	11.0	19.5	50	150	500
2	1.5	0.26	1.58	0.6	1.0	1.2	11.5	13.3	50	170	500
	2.5	0.26	2.04	0.7	1.0	1.2	13.0	7.98	50	220	500
	4	0.31	2.59	0.8	1.0	1.2	14.5	4.95	50	290	500
	6	0.31	3.60	0.8	1.0	1.4	17.0	3.30	50	390	500
	0.5	0.21	0.92	0.6	1.0	1.2	10.5	39.0	50	140	500
	0.75	0.21	1.13	0.6	1.0	1.2	11.0	26.0	50	150	500
	1	0.21	1.31	0.6	1.0	1.2	11.5	19.5	50	170	500
3	1.5	0.26	1.58	0.6	1.0	1.2	12.0	13.3	50	190	500
	2.5	0.26	2.04	0.7	1.0	1.2	13.5	7.98	50	260	500
	4	0.31	2.59	0.8	1.0	1.2	15.0	4.95	50	340	500
	6	0.31	3.60	0.8	1.0	1.4	17.5	3.30	50	470	500

600 V CVV-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	1.2	11.0	39.0	50	160	500
	0.75	0.21	1.13	0.6	1.0	1.2	11.5	26.0	50	180	500
	1	0.21	1.31	0.6	1.0	1.2	12.0	19.5	50	190	500
4	1.5	0.26	1.58	0.6	1.0	1.2	12.5	13.3	50	230	500
	2.5	0.26	2.04	0.7	1.0	1.2	14.5	7.98	50	310	500
	4	0.31	2.59	0.8	1.0	1.4	16.5	4.95	50	430	500
	6	0.31	3.60	0.8	1.0	1.4	19.0	3.30	50	570	500
	0.5	0.21	0.92	0.6	1.0	1.2	11.5	39.0	50	180	500
	0.75	0.21	1.13	0.6	1.0	1.2	12.0	26.0	50	200	500
	1	0.21	1.31	0.6	1.0	1.2	12.5	19.5	50	230	500
5	1.5	0.26	1.58	0.6	1.0	1.2	13.5	13.3	50	270	500
	2.5	0.26	2.04	0.7	1.0	1.4	16.0	7.98	50	380	500
	4	0.31	2.59	0.8	1.0	1.4	18.0	4.95	50	510	500
	6	0.31	3.60	0.8	1.0	1.4	20.5	3.30	50	690	500
	0.5	0.21	0.92	0.6	1.0	1.2	12.5	39.0	50	190	500
	0.75	0.21	1.13	0.6	1.0	1.2	13.0	26.0	50	220	500
	1	0.21	1.31	0.6	1.0	1.2	13.5	19.5	50	240	500
6	1.5	0.26	1.58	0.6	1.0	1.2	14.5	13.3	50	290	500
	2.5	0.26	2.04	0.7	1.0	1.4	17.0	7.98	50	410	500
	4	0.31	2.59	0.8	1.0	1.4	19.0	4.95	50	560	500
	6	0.31	3.60	0.8	1.0	1.4	22.0	3.30	50	750	500
	0.5	0.21	0.92	0.6	1.0	1.2	12.5	39.0	50	190	500
	0.75	0.21	1.13	0.6	1.0	1.2	13.0	26.0	50	220	500
	1	0.21	1.31	0.6	1.0	1.2	13.5	19.5	50	250	500
7	1.5	0.26	1.58	0.6	1.0	1.2	14.5	13.3	50	300	500
	2.5	0.26	2.04	0.7	1.0	1.4	17.0	7.98	50	460	500
	4	0.31	2.59	0.8	1.0	1.4	19.0	4.95	50	590	500
	6	0.31	3.60	0.8	1.0	1.4	22.0	3.30	50	800	500
	0.5	0.21	0.92	0.6	1.0	1.2	13.0	39.0	50	210	500
	0.75	0.21	1.13	0.6	1.0	1.2	14.0	26.0	50	250	500
	1	0.21	1.31	0.6	1.0	1.2	14.5	19.5	50	280	500
8	1.5	0.26	1.58	0.6	1.0	1.4	15.5	13.3	50	350	500
	2.5	0.26	2.04	0.7	1.0	1.4	18.0	7.98	50	480	500
	4	0.31	2.59	0.8	1.0	1.4	20.5	4.95	50	670	500
	6	0.31	3.60	0.8	1.0	1.4	24.0	3.30	50	900	500
	0.5	0.21	0.92	0.6	1.0	1.2	14.0	39.0	50	230	500
	0.75	0.21	1.13	0.6	1.0	1.2	14.5	26.0	50	270	500
	1	0.21	1.31	0.6	1.0	1.4	15.5	19.5	50	320	500
9	1.5	0.26	1.58	0.6	1.0	1.4	16.5	13.3	50	390	500
	2.5	0.26	2.04	0.7	1.0	1.4	19.0	7.98	50	540	500
	4	0.31	2.59	0.8	1.0	1.4	22.0	4.95	50	750	500
	6	0.31	3.60	0.8	1.0	1.4	25.5	3.30	50	1,010	500

600 V CVV-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	1.2	14.5	39.0	50	250	500
	0.75	0.21	1.13	0.6	1.0	1.4	16.0	26.0	50	310	500
	1	0.21	1.31	0.6	1.0	1.4	16.5	19.5	50	350	500
10	1.5	0.26	1.58	0.6	1.0	1.4	17.5	13.3	50	420	500
	2.5	0.26	2.04	0.7	1.0	1.4	20.5	7.98	50	580	500
	4	0.31	2.59	0.8	1.0	1.4	23.5	4.95	50	810	500
	6	0.31	3.60	0.8	1.0	1.8	28.5	3.30	50	1,160	500
	0.5	0.21	0.92	0.6	1.0	1.2	15.0	39.0	50	270	500
	0.75	0.21	1.13	0.6	1.0	1.4	16.5	26.0	50	330	500
	1	0.21	1.31	0.6	1.0	1.4	17.0	19.5	50	380	500
11	1.5	0.26	1.58	0.6	1.0	1.4	18.0	13.3	50	450	500
	2.5	0.26	2.04	0.7	1.0	1.4	21.0	7.98	50	640	500
	4	0.31	2.59	0.8	1.0	1.4	24.0	4.95	50	890	500
	6	0.31	3.60	0.8	1.0	1.8	29.5	3.30	50	1,270	500
	0.5	0.21	0.92	0.6	1.0	1.2	15.0	39.0	50	280	500
	0.75	0.21	1.13	0.6	1.0	1.4	16.5	26.0	50	340	500
	1	0.21	1.31	0.6	1.0	1.4	17.0	19.5	50	390	500
12	1.5	0.26	1.58	0.6	1.0	1.4	18.0	13.3	50	470	500
	2.5	0.26	2.04	0.7	1.0	1.4	21.0	7.98	50	660	500
	4	0.31	2.59	0.8	1.0	1.4	24.0	4.95	50	930	500
	6	0.31	3.60	0.8	1.0	1.8	29.5	3.30	50	1,320	500
	0.5	0.21	0.92	0.6	1.0	1.4	16.0	39.0	50	310	500
	0.75	0.21	1.13	0.6	1.0	1.4	28.0	26.0	50	370	500
	1	0.21	1.31	0.6	1.0	1.4	17.5	19.5	50	420	500
13	1.5	0.26	1.58	0.6	1.0	1.4	19.0	13.3	50	510	500
	2.5	0.26	2.04	0.7	1.0	1.4	22.0	7.98	50	720	500
	4	0.31	2.59	0.8	1.0	1.4	25.5	4.95	50	1,010	500
	6	0.31	3.60	0.8	1.0	1.8	30.5	3.30	50	1,440	500
	0.5	0.21	0.92	0.6	1.0	1.4	16.0	39.0	50	320	500
	0.75	0.21	1.13	0.6	1.0	1.4	17.0	26.0	50	370	500
	1	0.21	1.31	0.6	1.0	1.4	17.5	19.5	50	430	500
14	1.5	0.26	1.58	0.6	1.0	1.4	19.0	13.3	50	520	500
	2.5	0.26	2.04	0.7	1.0	1.4	22.0	7.98	50	740	500
	4	0.31	2.59	0.8	1.0	1.4	25.5	4.95	50	1,050	500
	6	0.31	3.60	0.8	1.0	1.8	30.5	3.30	50	1,490	500
	0.5	0.21	0.92	0.6	1.0	1.4	16.5	39.0	50	340	500
	0.75	0.21	1.13	0.6	1.0	1.4	17.5	26.0	50	400	500
	1	0.21	1.31	0.6	1.0	1.4	18.5	19.5	50	460	500
15	1.5	0.26	1.58	0.6	1.0	1.4	19.5	13.3	50	560	500
	2.5	0.26	2.04	0.7	1.0	1.4	23.0	7.98	50	800	500
	4	0.31	2.59	0.8	1.0	1.8	27.5	4.95	50	1,190	500
	6	0.31	3.60	0.8	1.0	1.8	32.0	3.30	50	1,630	500

600 V CVV-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω /km (Max.)	MΩ·km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	1.4	16.5	39.0	50	350	500
	0.75	0.21	1.13	0.6	1.0	1.4	17.5	26.0	50	410	500
	1	0.21	1.31	0.6	1.0	1.4	18.5	19.5	50	470	500
16	1.5	0.26	1.58	0.6	1.0	1.4	19.5	13.3	50	580	500
	2.5	0.26	2.04	0.7	1.0	1.4	23.0	7.98	50	820	500
	4	0.31	2.59	0.8	1.0	1.8	27.5	4.95	50	1,230	500
	6	0.31	3.60	0.8	1.0	1.8	32.0	3.30	50	1,680	500
	0.5	0.21	0.92	0.6	1.0	1.4	17.5	39.0	50	370	500
	0.75	0.21	1.13	0.6	1.0	1.4	18.5	26.0	50	440	500
	1	0.21	1.31	0.6	1.0	1.4	19.0	19.5	50	510	500
17	1.5	0.26	1.58	0.6	1.0	1.4	20.5	13.3	50	620	500
	2.5	0.26	2.04	0.7	1.0	1.4	24.0	7.98	50	890	500
	4	0.31	2.59	0.8	1.0	1.8	28.5	4.95	50	1,330	500
	6	0.31	3.60	0.8	1.0	1.8	34.0	3.30	50	1,810	500
	0.5	0.21	0.92	0.6	1.0	1.4	17.5	39.0	50	380	500
	0.75	0.21	1.13	0.6	1.0	1.4	18.5	26.0	50	450	500
	1	0.21	1.31	0.6	1.0	1.4	19.0	19.5	50	520	500
18	1.5	0.26	1.58	0.6	1.0	1.4	20.5	13.3	50	630	500
	2.5	0.26	2.04	0.7	1.0	1.4	24.0	7.98	50	910	500
	4	0.31	2.59	0.8	1.0	1.8	28.5	4.95	50	1,360	500
	6	0.31	3.60	0.8	1.0	1.8	34.0	3.30	50	1,870	500
	0.5	0.21	0.92	0.6	1.0	1.4	17.5	39.0	50	380	500
	0.75	0.21	1.13	0.6	1.0	1.4	18.5	26.0	50	460	500
	1	0.21	1.31	0.6	1.0	1.4	19.0	19.5	50	530	500
19	1.5	0.26	1.58	0.6	1.0	1.4	20.5	13.3	50	650	500
	2.5	0.26	2.04	0.7	1.0	1.4	24.0	7.98	50	930	500
	4	0.31	2.59	0.8	1.0	1.8	28.5	4.95	50	1,390	500
	6	0.31	3.60	0.8	1.0	1.8	34.0	3.30	50	1,920	500
	0.5	0.21	0.92	0.6	1.0	1.4	18.0	39.0	50	410	500
	0.75	0.21	1.13	0.6	1.0	1.4	19.0	26.0	50	490	500
	1	0.21	1.31	0.6	1.0	1.4	20.0	19.5	50	560	500
20	1.5	0.26	1.58	0.6	1.0	1.4	21.5	13.3	50	690	500
	2.5	0.26	2.04	0.7	1.0	1.4	25.0	7.98	50	1,000	500
	4	0.31	2.59	0.8	1.0	1.8	30.0	4.95	50	1,500	500
	6	0.31	3.60	0.8	1.0	1.8	35.5	3.30	50	2,060	500
	0.5	0.21	0.92	0.6	1.0	1.4	18.0	39.0	50	410	500
	0.75	0.21	1.13	0.6	1.0	1.4	19.0	26.0	50	490	500
	1	0.21	1.31	0.6	1.0	1.4	20.0	19.5	50	570	500
21	1.5	0.26	1.58	0.6	1.0	1.4	21.5	13.3	50	700	500
	2.5	0.26	2.04	0.7	1.0	1.4	25.0	7.98	50	1,020	500
	4	0.31	2.59	0.8	1.0	1.8	30.0	4.95	50	1,520	500
	6	0.31	3.60	0.8	1.0	1.8	35.5	3.30	50	2,100	500

600 V CVV-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	1.4	18.5	39.0	50	440	500
	0.75	0.21	1.13	0.6	1.0	1.4	20.0	26.0	50	530	500
	1	0.21	1.31	0.6	1.0	1.4	21.0	19.5	50	610	500
22	1.5	0.26	1.58	0.6	1.0	1.4	22.5	13.3	50	760	500
	2.5	0.26	2.04	0.7	1.0	1.8	27.0	7.98	50	1,150	500
	4	0.31	2.59	0.8	1.0	1.8	31.5	4.95	50	1,640	500
	6	0.31	3.60	0.8	1.0	1.8	37.0	3.30	50	2,260	500
	0.5	0.21	0.92	0.6	1.0	1.4	18.5	39.0	50	440	500
	0.75	0.21	1.13	0.6	1.0	1.4	20.0	26.0	50	530	500
	1	0.21	1.31	0.6	1.0	1.4	21.0	19.5	50	610	500
23	1.5	0.26	1.58	0.6	1.0	1.4	22.5	13.3	50	760	500
	2.5	0.26	2.04	0.7	1.0	1.8	27.0	7.98	50	1,150	500
	4	0.31	2.59	0.8	1.0	1.8	31.5	4.95	50	1,650	500
	6	0.31	3.60	0.8	1.0	1.8	37.0	3.30	50	2,280	500
	0.5	0.21	0.92	0.6	1.0	1.4	19.5	39.0	50	460	500
	0.75	0.21	1.13	0.6	1.0	1.4	21.0	26.0	50	550	500
	1	0.21	1.31	0.6	1.0	1.4	22.0	19.5	50	640	500
24	1.5	0.26	1.58	0.6	1.0	1.4	23.5	13.3	50	790	500
	2.5	0.26	2.04	0.7	1.0	1.8	28.5	7.98	50	1,200	500
	4	0.31	2.59	0.8	1.0	1.8	33.0	4.95	50	1,720	500
	6	0.31	3.60	0.8	1.2	2.2	40.5	3.30	50	2,490	500
	0.5	0.21	0.92	0.6	1.0	1.4	20.0	39.0	50	490	500
	0.75	0.21	1.13	0.6	1.0	1.4	21.0	26.0	50	580	500
	1	0.21	1.31	0.6	1.0	1.4	22.5	19.5	50	670	500
25	1.5	0.26	1.58	0.6	1.0	1.4	24.0	13.3	50	840	500
	2.5	0.26	2.04	0.7	1.0	1.8	29.0	7.98	50	1,270	500
	4	0.31	2.59	0.8	1.0	1.8	34.0	4.95	50	1,820	500
	6	0.31	3.60	0.8	1.2	2.2	41.5	3.30	50	2,630	400
	0.5	0.21	0.92	0.6	1.0	1.4	20.0	39.0	50	490	500
	0.75	0.21	1.13	0.6	1.0	1.4	21.0	26.0	50	590	500
	1	0.21	1.31	0.6	1.0	1.4	22.5	19.5	50	680	500
26	1.5	0.26	1.58	0.6	1.0	1.4	24.0	13.3	50	850	500
	2.5	0.26	2.04	0.7	1.0	1.8	29.0	7.98	50	1,290	500
	4	0.31	2.59	0.8	1.0	1.8	34.0	4.95	50	1,860	500
	6	0.31	3.60	0.8	1.2	2.2	41.5	3.30	50	2,680	400
	0.5	0.21	0.92	0.6	1.0	1.4	20.0	39.0	50	500	500
	0.75	0.21	1.13	0.6	1.0	1.4	21.0	26.0	50	600	500
	1	0.21	1.31	0.6	1.0	1.4	22.5	19.5	50	690	500
27	1.5	0.26	1.58	0.6	1.0	1.4	24.0	13.3	50	860	500
	2.5	0.26	2.04	0.7	1.0	1.8	29.0	7.98	50	1,310	500
	4	0.31	2.59	0.8	1.0	1.8	34.0	4.95	50	1,890	500
	6	0.31	3.60	0.8	1.2	2.2	41.5	3.30	50	2,730	400

600 V CVV-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	1.4	20.5	39.0	50	520	500
	0.75	0.21	1.13	0.6	1.0	1.4	22.0	26.0	50	630	500
	1	0.21	1.31	0.6	1.0	1.4	23.0	19.5	50	730	500
28	1.5	0.26	1.58	0.6	1.0	1.4	24.5	13.3	50	910	500
	2.5	0.26	2.04	0.7	1.0	1.8	30.0	7.98	50	1,390	500
	4	0.31	2.59	0.8	1.0	1.8	35.0	4.95	50	2,000	500
	6	0.31	3.60	0.8	1.2	2.2	42.5	3.30	50	2,880	400
	0.5	0.21	0.92	0.6	1.0	1.4	20.5	39.0	50	530	500
	0.75	0.21	1.13	0.6	1.0	1.4	22.0	26.0	50	640	500
	1	0.21	1.31	0.6	1.0	1.4	23.0	19.5	50	740	500
29	1.5	0.26	1.58	0.6	1.0	1.4	24.5	13.3	50	920	500
	2.5	0.26	2.04	0.7	1.0	1.8	30.0	7.98	50	1,410	500
	4	0.31	2.59	0.8	1.0	1.8	35.0	4.95	50	2,030	500
	6	0.31	3.60	0.8	1.2	2.2	42.5	3.30	50	2,930	400
	0.5	0.21	0.92	0.6	1.0	1.4	20.5	39.0	50	530	500
	0.75	0.21	1.13	0.6	1.0	1.4	22.0	26.0	50	640	500
	1	0.21	1.31	0.6	1.0	1.4	23.0	19.5	50	750	500
30	1.5	0.26	1.58	0.6	1.0	1.4	24.5	13.3	50	930	500
	2.5	0.26	2.04	0.7	1.0	1.8	30.0	7.98	50	1,430	500
	4	0.31	2.59	0.8	1.0	1.8	35.0	4.95	50	2,060	500
	6	0.31	3.60	0.8	1.2	2.2	42.5	3.30	50	2,980	400
	0.5	0.21	0.92	0.6	1.0	1.4	21.0	39.0	50	560	500
	0.75	0.21	1.13	0.6	1.0	1.4	22.5	26.0	50	680	500
	1	0.21	1.31	0.6	1.0	1.4	23.5	19.5	50	790	500
31	1.5	0.26	1.58	0.6	1.0	1.8	26.5	13.3	50	1,040	500
	2.5	0.26	2.04	0.7	1.0	1.8	31.0	7.98	50	1,510	500
	4	0.31	2.59	0.8	1.2	1.8	36.5	4.95	50	2,220	500
	6	0.31	3.60	0.8	1.2	2.2	44.0	3.30	50	3,140	400
	0.5	0.21	0.92	0.6	1.0	1.4	21.0	39.0	50	570	500
	0.75	0.21	1.13	0.6	1.0	1.4	22.5	26.0	50	690	500
	1	0.21	1.31	0.6	1.0	1.4	23.5	19.5	50	800	500
32	1.5	0.26	1.58	0.6	1.0	1.8	26.5	13.3	50	1,050	500
	2.5	0.26	2.04	0.7	1.0	1.8	31.0	7.98	50	1,530	500
	4	0.31	2.59	0.8	1.2	1.8	36.5	4.95	50	2,250	500
	6	0.31	3.60	0.8	1.2	2.2	44.0	3.30	50	3,200	400
	0.5	0.21	0.92	0.6	1.0	1.4	21.0	39.0	50	570	500
	0.75	0.21	1.13	0.6	1.0	1.4	22.5	26.0	50	690	500
	1	0.21	1.31	0.6	1.0	1.4	23.5	19.5	50	810	500
33	1.5	0.26	1.58	0.6	1.0	1.8	26.5	13.3	50	1,060	500
	2.5	0.26	2.04	0.7	1.0	1.8	31.0	7.98	50	1,550	500
	4	0.31	2.59	0.8	1.2	1.8	36.5	4.95	50	2,280	500
	6	0.31	3.60	0.8	1.2	2.2	44.0	3.30	50	3,250	400

600 V CVV-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	1.4	22.0	39.0	50	600	500
	0.75	0.21	1.13	0.6	1.0	1.4	23.0	26.0	50	730	500
	1	0.21	1.31	0.6	1.0	1.4	24.5	19.5	50	850	500
34	1.5	0.26	1.58	0.6	1.0	1.8	27.5	13.3	50	1,120	500
	2.5	0.26	2.04	0.7	1.0	1.8	32.0	7.98	50	1,630	500
	4	0.31	2.59	0.8	1.2	2.2	39.0	4.95	50	2,470	500
	6	0.31	3.60	0.8	1.2	2.2	46.0	3.30	50	3,410	400
	0.5	0.21	0.92	0.6	1.0	1.4	22.0	39.0	50	610	500
	0.75	0.21	1.13	0.6	1.0	1.4	23.0	26.0	50	740	500
	1	0.21	1.31	0.6	1.0	1.4	24.5	19.5	50	860	500
35	1.5	0.26	1.58	0.6	1.0	1.8	27.5	13.3	50	1,130	500
	2.5	0.26	2.04	0.7	1.0	1.8	32.0	7.98	50	1,650	500
	4	0.31	2.59	0.8	1.2	2.2	39.0	4.95	50	2,510	500
	6	0.31	3.60	0.8	1.2	2.2	46.0	3.30	50	3,460	400
	0.5	0.21	0.92	0.6	1.0	1.4	22.0	39.0	50	610	500
	0.75	0.21	1.13	0.6	1.0	1.4	23.0	26.0	50	740	500
	1	0.21	1.31	0.6	1.0	1.4	24.5	19.5	50	870	500
36	1.5	0.26	1.58	0.6	1.0	1.8	27.5	13.3	50	1,140	500
	2.5	0.26	2.04	0.7	1.0	1.8	32.0	7.98	50	1,670	500
	4	0.31	2.59	0.8	1.2	2.2	39.0	4.95	50	2,540	500
	6	0.31	3.60	0.8	1.2	2.2	46.0	3.30	50	3,510	400
	0.5	0.21	0.92	0.6	1.0	1.4	22.0	39.0	50	620	500
	0.75	0.21	1.13	0.6	1.0	1.4	23.0	26.0	50	750	500
	1	0.21	1.31	0.6	1.0	1.4	24.5	19.5	50	880	500
37	1.5	0.26	1.58	0.6	1.0	1.8	27.5	13.3	50	1,150	500
	2.5	0.26	2.04	0.7	1.0	1.8	32.0	7.98	50	1,690	500
	4	0.31	2.59	0.8	1.2	2.2	39.0	4.95	50	2,570	500
	6	0.31	3.60	0.8	1.2	2.2	46.0	3.30	50	3,570	400
	0.5	0.21	0.92	0.6	1.0	1.4	22.5	39.0	50	650	500
	0.75	0.21	1.13	0.6	1.0	1.4	24.0	26.0	50	790	500
	1	0.21	1.31	0.6	1.0	1.4	25.5	19.5	50	920	500
38	1.5	0.26	1.58	0.6	1.0	1.8	28.0	13.3	50	1,210	500
	2.5	0.26	2.04	0.7	1.0	1.8	33.0	7.98	50	1,780	500
	4	0.31	2.59	0.8	1.2	2.2	40.0	4.95	50	2,700	500
	6	0.31	3.60	0.8	1.2	2.2	47.5	3.30	50	3,740	400
	0.5	0.21	0.92	0.6	1.0	1.4	22.5	39.0	50	650	500
	0.75	0.21	1.13	0.6	1.0	1.4	24.0	26.0	50	800	500
	1	0.21	1.31	0.6	1.0	1.4	25.5	19.5	50	930	500
39	1.5	0.26	1.58	0.6	1.0	1.8	28.0	13.3	50	1,220	500
	2.5	0.26	2.04	0.7	1.0	1.8	33.0	7.98	50	1,800	500
	4	0.31	2.59	0.8	1.2	2.2	40.0	4.95	50	2,730	500
	6	0.31	3.60	0.8	1.2	2.2	47.5	3.30	50	3,790	400

600 V CVV-S

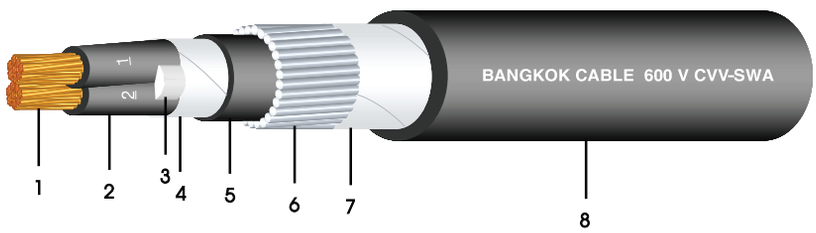
No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	1.4	22.5	39.0	50	660	500
	0.75	0.21	1.13	0.6	1.0	1.4	24.0	26.0	50	800	500
	1	0.21	1.31	0.6	1.0	1.4	25.5	19.5	50	940	500
40	1.5	0.26	1.58	0.6	1.0	1.8	28.0	13.3	50	1,230	500
	2.5	0.26	2.04	0.7	1.0	1.8	33.0	7.98	50	1,810	500
	4	0.31	2.59	0.8	1.2	2.2	40.0	4.95	50	2,760	500
	6	0.31	3.60	0.8	1.2	2.2	47.5	3.30	50	3,830	400
	0.5	0.21	0.92	0.6	1.0	1.4	23.0	39.0	50	690	500
	0.75	0.21	1.13	0.6	1.0	1.4	25.0	26.0	50	840	500
	1	0.21	1.31	0.6	1.0	1.8	27.0	19.5	50	1,040	500
41	1.5	0.26	1.58	0.6	1.0	1.8	29.0	13.3	50	1,290	500
	2.5	0.26	2.04	0.7	1.0	1.8	34.5	7.98	50	1,910	500
	4	0.31	2.59	0.8	1.2	2.2	41.5	4.95	50	2,900	400
	6	0.31	3.60	0.8	1.2	2.2	49.0	3.30	50	4,010	400
	0.5	0.21	0.92	0.6	1.0	1.4	23.0	39.0	50	700	500
	0.75	0.21	1.13	0.6	1.0	1.4	25.0	26.0	50	850	500
	1	0.21	1.31	0.6	1.0	1.8	27.0	19.5	50	1,040	500
42	1.5	0.26	1.58	0.6	1.0	1.8	29.0	13.3	50	1,310	500
	2.5	0.26	2.04	0.7	1.0	1.8	34.5	7.98	50	1,930	500
	4	0.31	2.59	0.8	1.2	2.2	41.5	4.95	50	2,930	400
	6	0.31	3.60	0.8	1.2	2.2	49.0	3.30	50	4,070	400
	0.5	0.21	0.92	0.6	1.0	1.4	23.0	39.0	50	700	500
	0.75	0.21	1.13	0.6	1.0	1.4	25.0	26.0	50	850	500
	1	0.21	1.31	0.6	1.0	1.8	27.0	19.5	50	1,050	500
43	1.5	0.26	1.58	0.6	1.0	1.8	29.0	13.3	50	1,310	500
	2.5	0.26	2.04	0.7	1.0	1.8	34.5	7.98	50	1,940	500
	4	0.31	2.59	0.8	1.2	2.2	41.5	4.95	50	2,940	400
	6	0.31	3.60	0.8	1.2	2.2	49.0	3.30	50	4,090	400
	0.5	0.21	0.92	0.6	1.0	1.4	24.0	39.0	50	710	500
	0.75	0.21	1.13	0.6	1.0	1.4	25.5	26.0	50	870	500
	1	0.21	1.31	0.6	1.0	1.8	28.0	19.5	50	1,070	500
44	1.5	0.26	1.58	0.6	1.0	1.8	30.0	13.3	50	1,350	500
	2.5	0.26	2.04	0.7	1.2	1.8	36.0	7.98	50	2,020	500
	4	0.31	2.59	0.8	1.2	2.2	43.0	4.95	50	3,020	400
	6	0.31	3.60	0.8	1.4	2.6	52.5	3.30	50	4,340	300
	0.5	0.21	0.92	0.6	1.0	1.4	24.5	39.0	50	750	500
	0.75	0.21	1.13	0.6	1.0	1.4	26.0	26.0	50	920	500
	1	0.21	1.31	0.6	1.0	1.8	28.5	19.5	50	1,130	500
45	1.5	0.26	1.58	0.6	1.0	1.8	30.5	13.3	50	1,410	500
	2.5	0.26	2.04	0.7	1.2	1.8	36.5	7.98	50	2,120	500
	4	0.31	2.59	0.8	1.2	2.2	44.0	4.95	50	3,170	400
	6	0.31	3.60	0.8	1.4	2.6	53.5	3.30	50	4,540	300

600 V CVV-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ·km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	1.4	24.5	39.0	50	750	500
	0.75	0.21	1.13	0.6	1.0	1.4	26.0	26.0	50	920	500
	1	0.21	1.31	0.6	1.0	1.8	28.5	19.5	50	1,120	500
46	1.5	0.26	1.58	0.6	1.0	1.8	30.5	13.3	50	1,410	500
	2.5	0.26	2.04	0.7	1.2	1.8	36.5	7.98	50	2,120	500
	4	0.31	2.59	0.8	1.2	2.2	44.0	4.95	50	3,170	400
	6	0.31	3.60	0.8	1.4	2.6	53.5	3.30	50	4,550	300
	0.5	0.21	0.92	0.6	1.0	1.4	24.5	39.0	50	750	500
	0.75	0.21	1.13	0.6	1.0	1.4	26.0	26.0	50	920	500
	1	0.21	1.31	0.6	1.0	1.8	28.5	19.5	50	1,130	500
47	1.5	0.26	1.58	0.6	1.0	1.8	30.5	13.3	50	1,420	500
	2.5	0.26	2.04	0.7	1.2	1.8	36.5	7.98	50	2,140	500
	4	0.31	2.59	0.8	1.2	2.2	44.0	4.95	50	3,210	400
	6	0.31	3.60	0.8	1.4	2.6	53.5	3.30	50	4,610	300
	0.5	0.21	0.92	0.6	1.0	1.4	24.5	39.0	50	760	500
	0.75	0.21	1.13	0.6	1.0	1.8	27.0	26.0	50	980	500
	1	0.21	1.31	0.6	1.0	1.8	28.5	19.5	50	1,140	500
48	1.5	0.26	1.58	0.6	1.0	1.8	30.5	13.3	50	1,440	500
	2.5	0.26	2.04	0.7	1.2	1.8	36.5	7.98	50	2,160	500
	4	0.31	2.59	0.8	1.2	2.2	44.0	4.95	50	3,240	400
	6	0.31	3.60	0.8	1.4	2.6	53.5	3.30	50	4,660	300

600 V CVV-SWA

2-30 CORES - POLYVINYL CHLORIDE FLEXIBLE CONTROL CABLE WITH ARMOUR



Construction

1. Conductor : Bunched stranded annealed copper
2. Insulation : Polyvinyl chloride (PVC), Black colour with marking number on the surface of insulation
3. Filler : Polypropylene (Non-hygroscopic material)
4. Binding tape : Polyester tape
5. Innner sheath : Polyvinyl chloride (PVC), Black colour
6. Armour : Galvanized steel wires
7. Binding tape : Polyester tape
8. Outer sheath : Polyvinyl chloride (PVC), Black colour

Reference Standard :

BCC' s standard

Classification

Maximum conductor temperature : 70°C
Maximum circuit voltage : 600 V
AC test voltage : 2,000 V

Application

For supervisory electrical equipment, station control circuits, outdoor, suitable installation in dry or wet cable trenches.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	(Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	7.0	0.8	0.9	10.5	39.0	50	210	500
	0.75	0.21	1.13	0.6	1.0	7.5	0.8	1.2	11.5	26.0	50	240	500
	1	0.21	1.31	0.6	1.0	8.0	0.8	1.2	12.0	19.5	50	260	500
2	1.5	0.26	1.58	0.6	1.0	8.5	0.8	1.2	12.5	13.3	50	280	500
	2.5	0.26	2.04	0.7	1.0	9.5	0.8	1.2	14.0	7.98	50	350	500
	4	0.31	2.59	0.8	1.0	11.0	0.8	1.2	15.5	4.95	50	440	500
	6	0.31	3.60	0.8	1.0	13.0	1.25	1.4	19.0	3.30	50	700	500
	0.5	0.21	0.92	0.6	1.0	7.5	0.8	1.2	11.5	39.0	50	240	500
	0.75	0.21	1.13	0.6	1.0	8.0	0.8	1.2	12.0	26.0	50	260	500
	1	0.21	1.31	0.6	1.0	8.0	0.8	1.2	12.5	19.5	50	280	500
3	1.5	0.26	1.58	0.6	1.0	9.0	0.8	1.2	13.0	13.3	50	320	500
	2.5	0.26	2.04	0.7	1.0	10.0	0.8	1.2	14.5	7.98	50	400	500
	4	0.31	2.59	0.8	1.0	12.0	1.25	1.2	17.0	4.95	50	620	500
	6	0.31	3.60	0.8	1.0	14.0	1.25	1.4	20.0	3.30	50	810	500

600 V CVV-SWA

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	(Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	8.0	0.8	1.2	12.0	39.0	50	270	500
	0.75	0.21	1.13	0.6	1.0	8.5	0.8	1.2	12.5	26.0	50	290	500
	1	0.21	1.31	0.6	1.0	9.0	0.8	1.2	13.0	19.5	50	320	500
4	1.5	0.26	1.58	0.6	1.0	9.5	0.8	1.2	14.0	13.3	50	360	500
	2.5	0.26	2.04	0.7	1.0	11.0	0.8	1.2	15.5	7.98	50	460	500
	4	0.31	2.59	0.8	1.0	13.0	1.25	1.4	19.0	4.95	50	740	500
	6	0.31	3.60	0.8	1.0	15.5	1.25	1.4	21.0	3.30	50	930	500
	0.5	0.21	0.92	0.6	1.0	8.5	0.8	1.2	13.0	39.0	50	290	500
	0.75	0.21	1.13	0.6	1.0	9.0	0.8	1.2	13.5	26.0	50	330	500
	1	0.21	1.31	0.6	1.0	9.5	0.8	1.2	14.0	19.5	50	360	500
5	1.5	0.26	1.58	0.6	1.0	10.5	0.8	1.2	14.5	13.3	50	410	500
	2.5	0.26	2.04	0.7	1.0	12.0	1.25	1.4	18.0	7.98	50	670	500
	4	0.31	2.59	0.8	1.0	14.5	1.25	1.4	20.0	4.95	50	850	500
	6	0.31	3.60	0.8	1.0	17.0	1.25	1.4	22.5	3.30	50	1,080	500
	0.5	0.21	0.92	0.6	1.0	9.0	0.8	1.2	13.5	39.0	50	320	500
	0.75	0.21	1.13	0.6	1.0	10.0	0.8	1.2	14.0	26.0	50	360	500
	1	0.21	1.31	0.6	1.0	10.5	0.8	1.2	15.0	19.5	50	390	500
6	1.5	0.26	1.58	0.6	1.0	11.0	0.8	1.2	15.5	13.3	50	440	500
	2.5	0.26	2.04	0.7	1.0	13.0	1.25	1.4	19.0	7.98	50	720	500
	4	0.31	2.59	0.8	1.0	15.5	1.25	1.4	21.5	4.95	50	920	500
	6	0.31	3.60	0.8	1.0	18.5	1.6	1.4	25.0	3.30	50	1,320	500
	0.5	0.21	0.92	0.6	1.0	9.0	0.8	1.2	13.5	39.0	50	320	500
	0.75	0.21	1.13	0.6	1.0	10.0	0.8	1.2	14.0	26.0	50	360	500
	1	0.21	1.31	0.6	1.0	10.5	0.8	1.2	15.0	19.5	50	400	500
7	1.5	0.26	1.58	0.6	1.0	11.0	0.8	1.2	15.5	13.3	50	460	500
	2.5	0.26	2.04	0.7	1.0	13.0	1.25	1.4	19.0	7.98	50	740	500
	4	0.31	2.59	0.8	1.0	15.5	1.25	1.4	21.5	4.95	50	960	500
	6	0.31	3.60	0.8	1.0	18.5	1.6	1.4	25.0	3.30	50	1,380	500
	0.5	0.21	0.92	0.6	1.0	10.0	0.8	1.2	14.5	39.0	50	350	500
	0.75	0.21	1.13	0.6	1.0	10.5	0.8	1.2	15.0	26.0	50	400	500
	1	0.21	1.31	0.6	1.0	11.0	1.25	1.2	16.5	19.5	50	540	500
8	1.5	0.26	1.58	0.6	1.0	12.0	1.25	1.4	18.0	13.3	50	640	500
	2.5	0.26	2.04	0.7	1.0	14.5	1.25	1.4	20.0	7.98	50	820	500
	4	0.31	2.59	0.8	1.0	17.0	1.6	1.4	23.5	4.95	50	1,180	500
	6	0.31	3.60	0.8	1.0	20.0	1.6	1.4	26.5	3.30	50	1,520	500
	0.5	0.21	0.92	0.6	1.0	10.5	0.8	1.2	15.0	39.0	50	380	500
	0.75	0.21	1.13	0.6	1.0	11.5	1.25	1.2	16.5	26.0	50	540	500
	1	0.21	1.31	0.6	1.0	12.0	1.25	1.4	17.5	19.5	50	600	500
9	1.5	0.26	1.58	0.6	1.0	13.0	1.25	1.4	18.5	13.3	50	690	500
	2.5	0.26	2.04	0.7	1.0	15.5	1.25	1.4	21.0	7.98	50	900	500
	4	0.31	2.59	0.8	1.0	18.5	1.6	1.4	24.5	4.95	50	1,310	500
	6	0.31	3.60	0.8	1.0	22.0	1.6	1.4	28.5	3.30	50	1,680	500

600 V CVV-SWA

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	(Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	11.5	0.8	1.2	16.0	39.0	50	410	500
	0.75	0.21	1.13	0.6	1.0	12.5	1.25	1.4	18.0	26.0	50	600	500
	1	0.21	1.31	0.6	1.0	13.0	1.25	1.4	18.5	19.5	50	660	500
10	1.5	0.26	1.58	0.6	1.0	14.0	1.25	1.4	20.0	13.3	50	750	500
	2.5	0.26	2.04	0.7	1.0	17.0	1.25	1.4	22.5	7.98	50	970	500
	4	0.31	2.59	0.8	1.0	20.0	1.6	1.4	26.5	4.95	50	1,420	500
	6	0.31	3.60	0.8	1.0	24.0	1.6	1.8	31.0	3.30	50	1,890	500
	0.5	0.21	0.92	0.6	1.0	12.0	0.8	1.2	16.0	39.0	50	430	500
	0.75	0.21	1.13	0.6	1.0	12.5	1.25	1.4	18.5	26.0	50	630	500
	1	0.21	1.31	0.6	1.0	13.5	1.25	1.4	19.0	19.5	50	690	500
11	1.5	0.26	1.58	0.6	1.0	14.5	1.25	1.4	20.5	13.3	50	800	500
	2.5	0.26	2.04	0.7	1.0	17.5	1.25	1.4	23.0	7.98	50	1,040	500
	4	0.31	2.59	0.8	1.0	20.5	1.6	1.4	27.0	4.95	50	1,530	500
	6	0.31	3.60	0.8	1.0	25.0	1.6	1.8	32.0	3.30	50	2,030	500
	0.5	0.21	0.92	0.6	1.0	12.0	1.25	1.2	17.0	39.0	50	560	500
	0.75	0.21	1.13	0.6	1.0	12.5	1.25	1.4	18.5	26.0	50	640	500
	1	0.21	1.31	0.6	1.0	13.5	1.25	1.4	19.0	19.5	50	700	500
12	1.5	0.26	1.58	0.6	1.0	14.5	1.25	1.4	20.5	13.3	50	810	500
	2.5	0.26	2.04	0.7	1.0	17.5	1.6	1.4	24.0	7.98	50	1,190	500
	4	0.31	2.59	0.8	1.0	20.5	1.6	1.4	27.0	4.95	50	1,560	500
	6	0.31	3.60	0.8	1.0	25.0	1.6	1.8	32.0	3.30	50	2,080	500
	0.5	0.21	0.92	0.6	1.0	12.5	1.25	1.4	18.0	39.0	50	600	500
	0.75	0.21	1.13	0.6	1.0	13.5	1.25	1.4	19.0	26.0	50	680	500
	1	0.21	1.31	0.6	1.0	14.0	1.25	1.4	20.0	19.5	50	750	500
13	1.5	0.26	1.58	0.6	1.0	15.5	1.25	1.4	21.0	13.3	50	870	500
	2.5	0.26	2.04	0.7	1.0	18.5	1.6	1.4	25.0	7.98	50	1,280	500
	4	0.31	2.59	0.8	1.0	21.5	1.6	1.4	28.0	4.95	50	1,680	500
	6	0.31	3.60	0.8	1.0	26.0	1.6	1.8	33.5	3.30	50	2,250	500
	0.5	0.21	0.92	0.6	1.0	12.5	1.25	1.4	18.0	39.0	50	610	500
	0.75	0.21	1.13	0.6	1.0	13.5	1.25	1.4	19.0	26.0	50	690	500
	1	0.21	1.31	0.6	1.0	14.0	1.25	1.4	20.0	19.5	50	760	500
14	1.5	0.26	1.58	0.6	1.0	15.5	1.25	1.4	21.0	13.3	50	880	500
	2.5	0.26	2.04	0.7	1.0	18.5	1.6	1.4	25.0	7.98	50	1,300	500
	4	0.31	2.59	0.8	1.0	21.5	1.6	1.4	28.0	4.95	50	1,710	500
	6	0.31	3.60	0.8	1.0	26.0	1.6	1.8	33.5	3.30	50	2,300	500
	0.5	0.21	0.92	0.6	1.0	13.0	1.25	1.4	19.0	39.0	50	650	500
	0.75	0.21	1.13	0.6	1.0	14.0	1.25	1.4	19.5	26.0	50	730	500
	1	0.21	1.31	0.6	1.0	15.0	1.25	1.4	20.5	19.5	50	810	500
15	1.5	0.26	1.58	0.6	1.0	16.0	1.25	1.4	22.0	13.3	50	940	500
	2.5	0.26	2.04	0.7	1.0	19.5	1.6	1.4	26.0	7.98	50	1,390	500
	4	0.31	2.59	0.8	1.0	23.0	1.6	1.8	30.5	4.95	50	1,890	500
	6	0.31	3.60	0.8	1.0	27.5	1.6	1.8	35.0	3.30	50	2,480	500

600 V CVV-SWA

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	(Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	13.0	1.25	1.4	19.0	39.0	50	660	500
	0.75	0.21	1.13	0.6	1.0	14.0	1.25	1.4	20.0	26.0	50	740	500
	1	0.21	1.31	0.6	1.0	15.0	1.25	1.4	20.5	19.5	50	810	500
16	1.5	0.26	1.58	0.6	1.0	16.0	1.25	1.4	22.0	13.3	50	960	500
	2.5	0.26	2.04	0.7	1.0	19.5	1.6	1.4	26.0	7.98	50	1,410	500
	4	0.31	2.59	0.8	1.0	23.0	1.6	1.8	29.5	4.95	50	1,870	500
	6	0.31	3.60	0.8	1.0	27.5	1.6	1.8	35.0	3.30	50	2,530	500
	0.5	0.21	0.92	0.6	1.0	13.5	1.25	1.4	19.5	39.0	50	700	500
	0.75	0.21	1.13	0.6	1.0	15.0	1.25	1.4	20.5	26.0	50	790	500
	1	0.21	1.31	0.6	1.0	15.5	1.25	1.4	21.5	19.5	50	870	500
17	1.5	0.26	1.58	0.6	1.0	17.0	1.25	1.4	22.5	13.3	50	1,020	500
	2.5	0.26	2.04	0.7	1.0	20.5	1.6	1.4	27.0	7.98	50	1,510	500
	4	0.31	2.59	0.8	1.0	24.5	1.6	1.8	31.5	4.95	50	2,070	500
	6	0.31	3.60	0.8	1.0	29.5	1.6	1.8	36.5	3.30	50	2,710	500
	0.5	0.21	0.92	0.6	1.0	13.5	1.25	1.4	19.5	39.0	50	700	500
	0.75	0.21	1.13	0.6	1.0	15.0	1.25	1.4	20.5	26.0	50	790	500
	1	0.21	1.31	0.6	1.0	15.5	1.25	1.4	21.5	19.5	50	880	500
18	1.5	0.26	1.58	0.6	1.0	17.0	1.25	1.4	22.5	13.3	50	1,030	500
	2.5	0.26	2.04	0.7	1.0	20.5	1.6	1.4	27.0	7.98	50	1,530	500
	4	0.31	2.59	0.8	1.0	24.5	1.6	1.8	31.5	4.95	50	2,110	500
	6	0.31	3.60	0.8	1.0	29.5	1.6	1.8	36.5	3.30	50	2,760	500
	0.5	0.21	0.92	0.6	1.0	13.5	1.25	1.4	19.5	39.0	50	710	500
	0.75	0.21	1.13	0.6	1.0	15.0	1.25	1.4	20.5	26.0	50	800	500
	1	0.21	1.31	0.6	1.0	15.5	1.25	1.4	21.5	19.5	50	890	500
19	1.5	0.26	1.58	0.6	1.0	17.0	1.25	1.4	22.5	13.3	50	1,040	500
	2.5	0.26	2.04	0.7	1.0	20.5	1.6	1.4	27.0	7.98	50	1,550	500
	4	0.31	2.59	0.8	1.0	24.5	1.6	1.8	31.5	4.95	50	2,140	500
	6	0.31	3.60	0.8	1.0	29.5	1.6	1.8	36.5	3.30	50	2,810	500
	0.5	0.21	0.92	0.6	1.0	14.5	1.25	1.4	20.0	39.0	50	750	500
	0.75	0.21	1.13	0.6	1.0	15.5	1.25	1.4	21.0	26.0	50	850	500
	1	0.21	1.31	0.6	1.0	16.5	1.25	1.4	22.0	19.5	50	940	500
20	1.5	0.26	1.58	0.6	1.0	18.0	1.6	1.4	24.5	13.3	50	1,240	500
	2.5	0.26	2.04	0.7	1.0	21.5	1.6	1.4	28.0	7.98	50	1,670	500
	4	0.31	2.59	0.8	1.0	25.5	1.6	1.8	33.0	4.95	50	2,290	500
	6	0.31	3.60	0.8	1.0	31.0	2.0	1.8	39.0	3.30	50	3,260	500
	0.5	0.21	0.92	0.6	1.0	14.5	1.25	1.4	20.0	39.0	50	750	500
	0.75	0.21	1.13	0.6	1.0	15.5	1.25	1.4	21.0	26.0	50	850	500
	1	0.21	1.31	0.6	1.0	16.5	1.25	1.4	22.0	19.5	50	950	500
21	1.5	0.26	1.58	0.6	1.0	18.0	1.6	1.4	24.5	13.3	50	1,250	500
	2.5	0.26	2.04	0.7	1.0	21.5	1.6	1.4	28.0	7.98	50	1,680	500
	4	0.31	2.59	0.8	1.0	25.5	1.6	1.8	33.0	4.95	50	2,310	500
	6	0.31	3.60	0.8	1.0	31.0	2.0	1.8	39.0	3.30	50	3,300	500

600 V CVV-SWA

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	(Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	15.0	1.25	1.4	21.0	39.0	50	800	500
	0.75	0.21	1.13	0.6	1.0	16.5	1.25	1.4	22.0	26.0	50	910	500
	1	0.21	1.31	0.6	1.0	17.5	1.6	1.4	23.5	19.5	50	1,140	500
22	1.5	0.26	1.58	0.6	1.0	19.0	1.6	1.4	25.0	13.3	50	1,330	500
	2.5	0.26	2.04	0.7	1.0	22.5	1.6	1.8	30.0	7.98	50	1,850	500
	4	0.31	2.59	0.8	1.0	27.0	1.6	1.8	34.5	4.95	50	2,460	500
	6	0.31	3.60	0.8	1.0	32.5	2.0	1.8	40.5	3.30	50	3,540	400
	0.5	0.21	0.92	0.6	1.0	15.0	1.25	1.4	21.0	39.0	50	800	500
	0.75	0.21	1.13	0.6	1.0	16.5	1.25	1.4	22.0	26.0	50	910	500
	1	0.21	1.31	0.6	1.0	17.5	1.6	1.4	23.5	19.5	50	1,140	500
23	1.5	0.26	1.58	0.6	1.0	19.0	1.6	1.4	25.0	13.3	50	1,330	500
	2.5	0.26	2.04	0.7	1.0	22.5	1.6	1.8	30.0	7.98	50	1,860	500
	4	0.31	2.59	0.8	1.0	27.0	1.6	1.8	34.5	4.95	50	2,470	500
	6	0.31	3.60	0.8	1.0	32.5	2.0	1.8	40.5	3.30	50	3,560	400
	0.5	0.21	0.92	0.6	1.0	16.0	1.25	1.4	21.5	39.0	50	830	500
	0.75	0.21	1.13	0.6	1.0	17.0	1.6	1.4	23.5	26.0	50	1,080	500
	1	0.21	1.31	0.6	1.0	18.5	1.6	1.4	24.5	19.5	50	1,200	500
24	1.5	0.26	1.58	0.6	1.0	20.0	1.6	1.4	26.5	13.3	50	1,400	500
	2.5	0.26	2.04	0.7	1.0	24.0	1.6	1.8	31.5	7.98	50	1,930	500
	4	0.31	2.59	0.8	1.0	28.5	2.0	1.8	36.5	4.95	50	2,830	500
	6	0.31	3.60	0.8	1.2	35.0	2.0	2.2	44.0	3.30	50	3,850	400
	0.5	0.21	0.92	0.6	1.0	16.5	1.25	1.4	22.0	39.0	50	870	500
	0.75	0.21	1.13	0.6	1.0	17.5	1.6	1.4	24.0	26.0	50	1,130	500
	1	0.21	1.31	0.6	1.0	18.5	1.6	1.4	25.0	19.5	50	1,250	500
25	1.5	0.26	1.58	0.6	1.0	20.5	1.6	1.4	27.0	13.3	50	1,460	500
	2.5	0.26	2.04	0.7	1.0	24.5	1.6	1.8	32.0	7.98	50	2,030	500
	4	0.31	2.59	0.8	1.0	29.5	2.0	1.8	37.5	4.95	50	2,960	500
	6	0.31	3.60	0.8	1.2	36.0	2.0	2.2	45.0	3.30	50	4,030	400
	0.5	0.21	0.92	0.6	1.0	16.5	1.25	1.4	22.0	39.0	50	870	500
	0.75	0.21	1.13	0.6	1.0	17.5	1.6	1.4	24.0	26.0	50	1,140	500
	1	0.21	1.31	0.6	1.0	18.5	1.6	1.4	25.0	19.5	50	1,260	500
26	1.5	0.26	1.58	0.6	1.0	20.5	1.6	1.4	27.0	13.3	50	1,470	500
	2.5	0.26	2.04	0.7	1.0	24.5	1.6	1.8	32.0	7.98	50	2,050	500
	4	0.31	2.59	0.8	1.0	29.5	2.0	1.8	37.5	4.95	50	2,990	500
	6	0.31	3.60	0.8	1.2	36.0	2.0	2.2	45.0	3.30	50	4,080	400
	0.5	0.21	0.92	0.6	1.0	16.5	1.25	1.4	22.0	39.0	50	870	500
	0.75	0.21	1.13	0.6	1.0	17.5	1.6	1.4	24.0	26.0	50	1,140	500
	1	0.21	1.31	0.6	1.0	18.5	1.6	1.4	25.0	19.5	50	1,270	500
27	1.5	0.26	1.58	0.6	1.0	20.5	1.6	1.4	27.0	13.3	50	1,480	500
	2.5	0.26	2.04	0.7	1.0	24.5	1.6	1.8	32.0	7.98	50	2,070	500
	4	0.31	2.59	0.8	1.0	29.5	2.0	1.8	37.5	4.95	50	3,020	500
	6	0.31	3.60	0.8	1.2	36.0	2.0	2.2	45.0	3.30	50	4,140	400

600 V CVV-SWA

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter under armour	Diameter of wire armour	Thickness of outer sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area mm^2	Dia. of wires mm (Max.)	Diameter mm (Approx.)	mm (Nominal)	mm (Approx.)	(Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m/drum
	0.5	0.21	0.92	0.6	1.0	17.0	1.25	1.4	22.5	39.0	50	920	500
	0.75	0.21	1.13	0.6	1.0	18.0	1.60	1.4	24.5	26.0	50	1,190	500
	1	0.21	1.31	0.6	1.0	19.5	1.6	1.4	26.0	19.5	50	1,320	500
28	1.5	0.26	1.58	0.6	1.0	21.0	1.6	1.4	27.5	13.3	50	1,560	500
	2.5	0.26	2.04	0.7	1.0	25.5	1.6	1.8	33.0	7.98	50	2,160	500
	4	0.31	2.59	0.8	1.0	30.5	2.0	1.8	38.5	4.95	50	3,180	500
	6	0.31	3.60	0.8	1.2	37.5	2.0	2.2	46.5	3.30	50	4,330	400
	0.5	0.21	0.92	0.6	1.0	17.0	1.25	1.4	22.5	39.0	50	930	500
	0.75	0.21	1.13	0.6	1.0	18.0	1.6	1.4	24.5	26.0	50	1,200	500
	1	0.21	1.31	0.6	1.0	19.5	1.6	1.4	26.0	19.5	50	1,330	500
29	1.5	0.26	1.58	0.6	1.0	21.0	1.6	1.4	27.5	13.3	50	1,570	500
	2.5	0.26	2.04	0.7	1.0	25.5	1.6	1.8	33.0	7.98	50	2,180	500
	4	0.31	2.59	0.8	1.0	30.5	2.0	1.8	38.5	4.95	50	3,210	500
	6	0.31	3.60	0.8	1.2	37.5	2.0	2.2	46.5	3.30	50	4,380	400
	0.5	0.21	0.92	0.6	1.0	17.0	1.25	1.4	22.5	39.0	50	930	500
	0.75	0.21	1.13	0.6	1.0	18.0	1.6	1.4	24.5	26.0	50	1,200	500
	1	0.21	1.31	0.6	1.0	19.5	1.6	1.4	26.0	19.5	50	1,340	500
30	1.5	0.26	1.58	0.6	1.0	21.0	1.6	1.4	27.5	13.3	50	1,580	500
	2.5	0.26	2.04	0.7	1.0	25.5	1.6	1.8	33.0	7.98	50	2,200	500
	4	0.31	2.59	0.8	1.0	30.5	2.0	1.8	38.5	4.95	50	3,240	500
	6	0.31	3.60	0.8	1.2	37.5	2.0	2.2	46.5	3.30	50	4,430	400

PART B COPPER CONDUCTOR

SECTION 5 : BARE CONDUCTOR PAGE NO.

ASTM B3 & B8 STANDARD

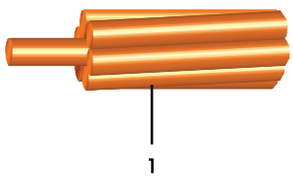
1. BCW
Soft Drawn Copper Stranded Conductor B 166

TIS 64-2517 STANDARD

2. FHC
Hard Drawn Copper Stranded Conductor B 167

BCW

SOFT DRAWN COPPER STRANDED CONDUCTOR



Construction

1. Conductor : Stranded soft-drawn copper

Reference Standard :

- ASTM B 3 & ASTM B 8
- TIS 2427

Application

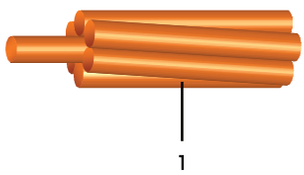
Conductor for grounding system or general use for electrical purposes.

B

Nominal cross-sectional area mm^2	Calculated cross-sectional area mm^2	No.& dia. of wires No./mm	Overall diameter mm	DC. Conductor resistance at 20°C Ω /km (Max.)	Current rating in free air at 40°C ambient A	Cable weight kg/km (Approx.)	Standard length m/drum
6	5.83	7/1.03	3.09	3.08	65	53	1000
10	9.73	7/1.33	3.99	1.83	90	89	1000
16	15.33	7/1.67	5.01	1.15	125	140	1000
25	24.25	7/2.10	6.30	0.727	160	221	1000
35	34.02	19/1.51	7.55	0.524	200	311	1000
50	45.70	19/1.75	8.75	0.387	250	417	1000
70	65.81	19/2.10	10.50	0.268	310	601	1000
95	91.04	19/2.47	12.35	0.193	380	831	1000
120	115.08	37/1.99	13.93	0.153	440	1,053	1000
150	141.93	37/2.21	15.47	0.124	510	1,300	1000
185	177.29	37/2.47	17.29	0.0991	585	1,624	1000
240	233.99	61/2.21	19.89	0.0754	700	2,158	1000
300	292.29	61/2.47	22.23	0.0601	800	2,696	500
400	375.61	61/2.80	25.20	0.0470	900	3,464	500
500	481.44	61/3.17	28.53	0.0366	1,110	4,440	500

FHC

HARD DRAWN COPPER STRANDED CONDUCTOR



Construction

1. Conductor : Stranded hard-drawn copper

Reference Standard :

TIS 64-2517

Application

Aerial power transmission and distribution line.

B

Nominal cross-sectional area mm^2	Calculated cross-sectional area mm^2	No.& dia. of wires No./mm	Overall diameter mm	DC. Conductor resistance at 20°C Ω /km (Max.)	Breaking strength (kgf)	Current rating in free air at 40°C ambient A	Cable weight kg/km (Approx.)	Standard length m/drum
10	10.02	7/1.35	4.05	1.80548	438	90	90	1000
16	15.89	7/1.70	5.10	1.13857	694	125	143	1000
25	25.18	7/2.14	6.42	0.71851	1,076	160	227	1000
35	34.91	7/2.52	7.56	0.51815	1,459	200	314	1000
50	50.14	7/3.02	9.06	0.35896	2,095	250	452	1000
50	47.28	19/1.78	8.90	0.38252	2,021	250	428	1000
70	68.34	19/2.14	10.70	0.26466	2,921	310	618	1000
95	94.77	19/2.52	12.60	0.19183	3,961	380	858	1000
120	121.21	19/2.85	14.20	0.14922	5,067	440	1,097	1000
150	147.12	37/2.25	15.75	0.12384	6,289	510	1,334	1000
185	184.54	37/2.52	17.64	0.09873	7,713	585	1,673	500
240	242.54	61/2.25	20.25	0.07528	10,369	700	2,200	500
300	304.24	61/2.52	22.68	0.06002	17,717	800	2,760	500
400	389.14	61/2.85	25.65	0.04692	16,266	900	3,530	300
500	490.59	61/3.20	28.80	0.03703	20,506	1,110	4,451	300

PART B COPPER CONDUCTOR

SECTION 6 : PHOTOVOLTAIC CABLE PAGE NO.

EN 50618:2014 STANDARD

Electric cables for Photovoltaic Systems
PHOTOVOLTAIC CABLE (H1Z2Z2-K) B 169

PHOTOVOLTAIC CABLE (H1Z2Z2-K)



Construction

1. Condictor : Tinned Annealed Copper (Flexible class 5)
2. Insulation : Cross-linked Polyolefin
   Colour code : Natural
3. Sheath : Cross-linked Polyolefin-copolymer
   Colour code : Black, Red
   : Other colors available on request

Reference Standard :

EN 50618 : 2014

Classification

Temperature range : - 40°C to 90°C
Nominal rated a.c. voltage (Uo/U) : 1.0/1.0 kV
Nominal rate d.c. Voltage : 1.5 kV
Max. permitted operating d.c. voltage : 1.8 kV

Features

Ozone-resistant according to EN 50396
Halogen-free according to EN 50525-1
Weather/UV-resistance acc. to EN 50618
Flame retardant acc. to EN 60332-1-2
Low smoke acc. to EN 61034-2
Acid and Alkaline resistant acc. to EN 60811-404

Application

The cable use for interconnection wiring of photovoltaic power system like solar panel arrays for utility scale solar plants or rooftops. Suitable for both internal and external use. They can also install to be fixed, free movable, in cable trays and in conduit.

Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	DC. conductor resistance at 20°C	Insulation resistance at 90°C	Current rating In free air at 60°C	Cable weight	Standard length
Cross-sectional area	Diameter of wires	Diameter								
mm^2	mm (Max.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m/drum
1.5	0.26	1.6	0.7	0.8	4.8	13.7	0.86	30	50	200
2.5	0.26	2.0	0.7	0.8	5.2	8.21	0.69	41	60	200
4	0.31	2.4	0.7	0.8	5.6	5.09	0.58	55	80	200
6	0.31	3.5	0.7	0.8	6.7	3.39	0.50	70	110	100
10	0.41	4.8	0.7	0.8	8.0	1.95	0.42	78	150	100
16	0.41	5.9	0.7	0.9	9.3	1.24	0.34	132	210	100
25	0.41	7.4	0.9	1.0	11.5	0.795	0.34	176	310	100
35	0.41	9.0	0.9	1.1	13.3	0.565	0.29	218	410	100
50	0.41	10.4	1.0	1.2	15.1	0.393	0.27	276	550	100
70	0.51	12.6	1.1	1.2	17.5	0.277	0.25	347	750	500
95	0.51	13.9	1.1	1.3	19.0	0.210	0.22	416	1,020	500
120	0.51	16.2	1.2	1.3	21.5	0.164	0.21	488	1,270	500
150	0.51	18.1	1.4	1.4	24.0	0.132	0.21	566	1,560	500
185	0.51	20.2	1.6	1.6	27.0	0.108	0.20	644	1,940	500
240	0.51	23.2	1.7	1.7	30.4	0.0817	0.20	775	2,520	500

Approval : TÜV SÜD approval according to EN 50618:2014 certification No. B 17 10 02303 001

Revision : 04, May 2021

PART C ALUMINIUM CONDUCTOR

SECTION 1 : LOW VOLTAGE POWER CABLES

PAGE NO.

1. NAY C 2

750 V 70°C PVC Insulation, Single Core (TIS 293-2541, Table 1)

2. THW-A C 3

750 V 70°C PVC Insulation, Single Core (TIS 293-2541, Table 1)

3. AWV C 4

750 V 70°C PVC Insulation, Single Core (TIS 293-2541, Table 2)

750 V 70°C NAY



Construction

1. Conductor : Solid hard-drawn aluminium wire
2. Insulation : Sky blue polyvinyl chloride (PVC)

Standard :

TIS 293-2541 Table 1

Classification

Maximum conductor temperature : 70°C
Maximum circuit voltage : 750 V
AC test voltage : 2,500 V

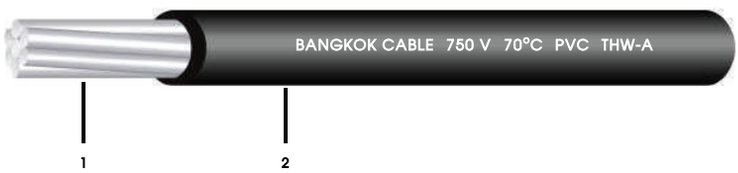
Application

• PEA drop wire

Conductor		Thickness of insulation	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 70°C	Breaking strength	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	Number & diameter of wire								
mm^2 (Nominal)	No./mm	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	N (Min.)	A	kg/km (Approx.)	m
10	1/3.49	2.7	9.3	3.08	0.02	1562	51	106	500/C
16	1/4.43	2.9	10.7	1.91	0.01	2445	68	144	500/C

C = Packing in coil

750 V 70°C THW-A



Construction

1. Conductor : Stranded hard-drawn aluminium wires
2. Insulation : Black polyvinyl chloride (PVC)

Standard :

TIS 293-2541 Table 1

Classification

Maximum conductor temperature : 70°C
Maximum circuit voltage : 750 V
AC test voltage : 2,500 V

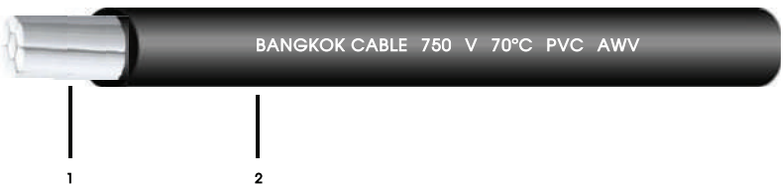
Application

- For low voltage overhead distribution line

Conductor			Thickness of insulation	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 70°C	Breaking strength	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area mm² (Nominal)	No. & dia. of wires No./mm	Diameter of conductor mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	N (Min.)	A	kg/km (Approx.)	m
10	7/1.32	3.96	1.1	6.7	3.08	0.0070	1,769	51	56	100/C
16	7/1.68	5.04	1.1	7.8	1.91	0.0057	2,781	69	80	100/C
25	7/2.12	6.36	1.3	9.6	1.20	0.0054	4,241	92	124	100/C
35	7/2.49	7.47	1.3	10.8	0.868	0.0047	5,703	112	155	100/C
50	7/2.90	8.70	1.5	12.5	0.641	0.0047	7,423	136	216	100/C
50	19/1.76	8.80	1.5	12.5	0.641	0.0046	8,114	136	209	100/C
70	19/2.12	10.60	1.5	14.3	0.443	0.0039	11,487	173	284	100/C
95	19/2.49	12.45	1.7	16.6	0.320	0.0038	15,470	225	388	100/C
120	19/2.80	14.00	1.7	18.2	0.253	0.0034	18,810	262	473	1,000/D
120	37/2.01	14.07	1.7	18.3	0.253	0.0034	20,114	263	468	1,000/D
150	37/2.23	15.61	1.9	20.3	0.206	0.0034	24,704	300	578	1,000/D
185	37/2.50	17.50	2.1	22.6	0.164	0.0034	30,187	347	723	1,000/D
240	61/2.23	20.07	2.3	25.8	0.125	0.0032	38,568	415	930	1,000/D
300	61/2.49	22.41	2.5	28.6	0.100	0.0032	46,901	479	1,151	1,000/D
400	61/2.82	25.38	2.7	32.0	0.0778	0.0030	57,948	562	1,458	500/D
500	61/3.20	28.80	3.1	36.3	0.0605	0.0031	73,194	658	1,883	500/D

C = Packing in coil
D = Packing in drum

750 V 70°C AWV



Construction

1. Conductor : Compact round stranded hard-drawn aluminium wires
2. Insulation : Black polyvinyl chloride (PVC)

Standard :

TIS 293-2541 Table 2

Classification

Maximum conductor temperature : 70°C
Maximum circuit voltage : 750 V
AC test voltage : 2,500 V

Application

- For low voltage overhead distribution line

Conductor			Thickness of insulation	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 70°C	Breaking strength	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	Number of wires	Diameter of conductor								
mm^2 (Nominal)	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	N (Min.)	A	kg/km (Approx.)	m/drum
10	6	3.68	1.1	6.2	3.08	0.0076	1,768	50	54	3,000
16	6	4.65	1.1	7.2	1.91	0.0063	2,734	67	77	3,000
25	6	5.82	1.3	8.9	1.20	0.0060	4,120	89	118	3,000
35	6	6.88	1.3	9.9	0.868	0.0052	5,591	109	153	3,000
50	6	7.92	1.5	11.4	0.641	0.0052	7,313	132	208	2,000
70	12	9.55	1.5	13.0	0.443	0.0044	10,420	166	273	2,000
95	15	11.27	1.7	15.1	0.320	0.0043	14,098	217	373	1,000
120	15	12.68	1.7	16.5	0.253	0.0038	18,518	253	456	1,000
150	15	14.05	1.9	18.4	0.206	0.0039	22,457	289	562	1,000
185	30	15.75	2.1	20.5	0.164	0.0038	28,974	334	694	1,000
240	30	18.23	2.3	23.4	0.125	0.0037	37,506	399	900	1,000
300	30	20.38	2.5	26.0	0.100	0.0036	45,642	460	1,117	1,000
400	53	23.25	2.7	30.7	0.0778	0.0034	56,992	549	1,414	500
500	53	26.22	3.1	33.1	0.0605	0.0035	72,195	633	1,823	500

Revision : 04, May 2021

PART C ALUMINIUM CONDUCTOR

SECTION 2 : MEDIUM VOLTAGE POWER CABLES

PAGE NO.

1. 15 kV SAC — C 6

15,000 V 90°C XLPE Insulation, XLPE Jacket, Single Core (ICEA S-66-524)

2. 25 kV SAC — C 7

25,000 V 90°C XLPE Insulation, XLPE Jacket, Single Core (TIS 2341-2555)

3. 35 kV SAC — C 8

35,000 V 90°C XLPE Insulation, XLPE Jacket, Single Core (TIS 2341-2555)

15 kV 90°C SAC

SPACED AERIAL CABLE



Construction

1. Conductor : Compact round stranded hard-drawn aluminium wires
2. Conductor screen : Semi conductive cross-linked polyethylene (XLPE) compound
3. Insulation : Cross-linked polyethylene (XLPE)
4. Jacket : Black cross-linked polyethylene (XLPE)

Standard :

ICEA S-66-524

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 15,000 V
AC test voltage	: 27,000 V

Application

- For aerial power transmission and distribution line

Conductor			Thickness of conductor screen	Thickness of insulation	Thickness of jacket	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 15.6°C	Conductor weight	Conductor breaking strength	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter of conductor											
mm²		mm	mm	mm	mm	mm	Ω/km	MΩ.km	kg/km	N	A	kg/km	m/drum
(Nominal)	(Min.)	(Approx.)	(Average)	(Nominal)	(Nominal)	(Approx.)	(Max.)	(Min.)	(Approx.)	(Min.)		(Approx.)	
35	6	6.88	0.3	1.91	1.91	16.5	0.868	2,086	94	5,591	152	245	1,500
50	6	7.92	0.3	1.91	1.91	17.5	0.641	1,889	128	7,313	182	295	1,500
70	12	9.55	0.3	1.91	1.91	19.5	0.443	1,642	185	10,420	228	370	1,500
95	15	11.27	0.3	1.91	1.91	21.0	0.320	1,447	256	14,098	281	465	1,500
120	15	12.68	0.3	1.91	1.91	22.5	0.253	1,315	324	18,518	324	555	1,000
150	15	14.05	0.3	1.91	1.91	24.0	0.206	1,223	398	22,457	368	645	1,000
185	30	15.75	0.3	1.91	1.91	25.5	0.164	1,111	500	28,974	426	765	1,000
240	30	18.23	0.3	1.91	1.91	28.0	0.125	988	655	37,506	509	955	1,000

Revision : 04, May 2021

25 kV 90°C SAC

SPACED AERIAL CABLE



Construction

1. Conductor : Compact round stranded hard-drawn aluminium wires
2. Conductor screen : Semi conductive cross-linked polyethylene (XLPE) compound
3. Insulation : Cross-linked polyethylene (XLPE)
4. Jacket : Black cross-linked polyethylene (XLPE)

Standard :

TIS 2341-2555

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 25,000 V
AC test voltage	: 38,000 V

Application

- For aerial power transmission and distribution line

Conductor			Thickness of conductor screen	Thickness of insulation	Thickness of jacket	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 15.6°C	Conductor weight	Conductor breaking strength	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter of conductor											
mm^2		mm	mm	mm	mm	mm	Ω/km	MΩ.km	kg/km	N	A	kg/km	m/drum
(Nominal)	(Min.)	(Approx.)	(Average)	(Nominal)	(Nominal)	(Approx.)	(Max.)	(Min.)	(Approx.)	(Min.)		(Approx.)	
35	6	6.88	0.3	3.18	3.18	21.0	0.868	2,580	94	5,591	150	381	1,500
50	6	7.92	0.3	3.18	3.18	22.0	0.641	2,380	128	7,313	181	438	1,500
70	12	9.55	0.3	3.18	3.18	23.5	0.443	2,126	185	10,420	225	527	1,500
95	15	11.27	0.3	3.18	3.18	25.5	0.320	1,913	256	14,098	275	636	1,500
120	15	12.68	0.3	3.18	3.18	27.0	0.253	1,759	324	18,518	319	734	1,000
150	15	14.05	0.3	3.18	3.18	28.0	0.206	1,648	398	22,457	362	838	1,000
185	30	15.75	0.3	3.18	3.18	30.0	0.164	1,521	500	28,974	418	970	1,000
240	30	18.23	0.3	3.18	3.18	32.5	0.125	1,367	655	37,506	497	1178	1,000

35 kV 90°C SAC

SPACED AERIAL CABLE



Construction

1. Conductor : Compact round stranded hard-drawn aluminium wires
2. Conductor screen : Semi conductive cross-linked polyethylene (XLPE) compound
3. Insulation : Cross-linked polyethylene (XLPE)
4. Jacket : Black cross-linked polyethylene (XLPE)

Standard :

TIS 2341-2555

Classification

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 35,000 V
AC test voltage	: 49,000 V

Application

- For aerial power transmission and distribution line

Conductor			Thickness of conductor screen	Thickness of insulation	Thickness of jacket	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 15.6°C	Conductor weight	Conductor breaking strength	Current rating in free air at 40°C ambient	Cable weight	Standard length
Cross-sectional area	No. of wires	Diameter of conductor											
mm^2		mm	mm	mm	mm	mm	Ω/km	MΩ.km	kg/km	N	A	kg/km	m/drum
(Nominal)	(Min.)	(Approx.)	(Average)	(Nominal)	(Nominal)	(Approx.)	(Max.)	(Min.)	(Approx.)	(Min.)		(Approx.)	
50	6	7.92	0.3	4.45	3.18	22.0	0.641	2,677	128	7,313	181	525	1,500
70	12	9.55	0.3	4.45	3.18	23.5	0.443	2,403	185	10,420	225	621	1,500
95	15	11.27	0.3	4.45	3.18	25.5	0.320	2,172	256	14,098	274	736	1,000
120	15	12.68	0.3	4.45	3.18	27.0	0.253	2,004	324	18,518	317	840	1,000
150	15	14.05	0.3	4.45	3.18	28.0	0.206	1,883	398	22,457	360	948	1,000
185	30	15.75	0.3	4.45	3.18	30.0	0.164	1,743	500	28,974	415	1,087	1,000
240	30	18.23	0.3	4.45	3.18	32.5	0.125	1,573	655	37,506	493	1,305	1,000

PART C ALUMINIUM CONDUCTOR

SECTION 3 : BARE CONDUCTORS

PAGE NO.

1. AAC

ALL ALUMINIUM STRANDED CONDUCTOR (TIS 85-2548, Table ๓.1) C10

ALL ALUMINIUM STRANDED CONDUCTOR (TIS 85-2548, reference to TIS 85 - 2522) C11

2. ACSR

ALUMINIUM CONDUCTOR, STEEL-REINFORCED (TIS 85-2548, Table ๓.4) C12

ALUMINIUM CONDUCTOR, STEEL-REINFORCED (TIS 85-2548, reference to TIS 86-2522) C13

AAC (A1)

ALL ALUMINIUM STRANDED CONDUCTOR



Construction

1. Conductor : Stranded hard-drawn aluminium wires (A1)

Standard :

TIS 85 - 2548 ,Table 1.1

Application

- For aerial power transmission and distribution line.

Code No.	Cross - sectional area mm^2 (Approx.)	Number of wires	Diameter of wire mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω/km (Max.)	Rated tensile strength kN (Min.)	Current rating in free air at 40°C ambient A	Conductor weight kg/km (Approx.)	Standard length m/drum
10	10	7	1.35	4.05	2.8633	1.95	81	27	3,000
16	16	7	1.71	5.12	1.7896	3.04	109	44	3,000
25	25	7	2.13	6.40	1.1453	4.50	146	68	3,000
40	40	7	2.70	8.09	0.7158	6.80	197	109	2,500
63	63	7	3.39	10.20	0.4545	10.39	264	172	2,500
100	100	19	2.59	12.90	0.2877	17.00	355	275	2,500
125	125	19	2.89	14.50	0.2302	21.25	411	344	2,000
160	160	19	3.27	16.40	0.1798	26.40	482	440	2,000
200	200	19	3.66	18.30	0.1439	32.00	556	550	2,000
250	250	19	4.09	20.50	0.1151	40.00	643	687	1,500
315	315	37	3.29	23.00	0.0916	51.97	745	868	1,500
400	400	37	3.71	26.00	0.0721	64.00	870	1,102	1,000
450	450	37	3.94	27.50	0.0641	72.00	938	1,240	1,000
500	500	37	4.15	29.00	0.0577	80.00	1,003	1,378	1,000
560	560	37	4.39	30.70	0.0515	89.60	1,078	1,543	1,000
630	630	61	3.63	32.60	0.0458	100.80	1,162	1,738	1,000
710	710	61	3.85	34.60	0.0407	113.60	1,252	1,959	500
800	800	61	4.09	36.80	0.0361	128.00	1,349	2,207	500
900	900	61	4.33	39.00	0.0321	144.00	1,450	2,483	500
1000	1000	61	4.57	41.10	0.0289	160.00	1,545	2,759	500
1120	1120	91	3.96	43.50	0.0258	179.20	1,654	3,094	500
1250	1250	91	4.18	46.00	0.0231	200.00	1,765	3,453	500
1400	1400	91	4.43	48.70	0.0207	224.00	1,880	3,867	500
1500	1500	91	4.58	50.40	0.0193	240.00	1,955	4,143	500

AAC

ALL ALUMINIUM STRANDED CONDUCTOR



Construction

1. Conductor : Stranded hard-drawn aluminium wires

Reference Standard :

TIS 85 - 2548

(Reference to TIS 85 - 2522)

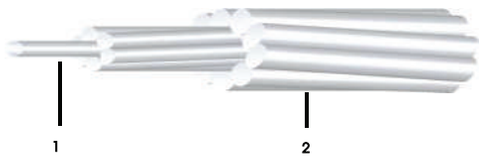
Application

- For aerial power transmission and distribution line.

Cross - sectional area mm^2 (Nominal)	Cross - sectional area mm^2 (Actual)	Number of wires	Diameter of wire mm (Nominal)	Overall diameter mm (Approx.)	Conductor resistance at 20°C Ω /km (Max.)	Rated tensile strength kN (Min.)	Current rating in free air at 40°C ambient A	Conductor weight kg/km (Approx.)	Standard length m/drum
16	15.89	7	1.70	5.10	1.8022	2.844	110	44	4,000
25	25.18	7	2.14	6.42	1.1373	4.315	145	69	4,000
35	34.91	7	2.52	7.56	0.8202	5.737	180	96	3,000
50	50.14	7	3.02	9.06	0.5711	7.894	225	137	3,000
50	49.97	19	1.83	9.15	0.5758	8.727	225	137	3,000
70	68.98	19	2.15	10.75	0.4171	11.816	270	190	2,500
95	94.76	19	2.52	12.60	0.3036	15.543	340	261	2,500
120	121.21	19	2.85	14.25	0.2374	19.416	390	333	2,500
150	147.12	37	2.25	15.75	0.1960	25.201	455	406	2,500
185	184.54	37	2.52	17.64	0.1563	30.252	550	509	2,500
240	242.54	61	2.25	20.25	0.1191	39.371	625	670	1,500
300	304.24	61	2.52	22.68	0.0949	47.265	710	840	1,500
400	389.14	61	2.85	25.65	0.0742	59.081	855	1,075	1,000
500	506.04	61	3.25	29.25	0.0571	78.105	990	1,398	1,000
625	626.2	91	2.96	32.56	0.0462	95.060	1,140	1,735	1,000
800	802.08	91	3.35	36.85	0.0360	118.211	1,340	2,222	500
1000	999.71	91	3.74	41.14	0.0289	145.570	1,540	2,769	500

ACSR (A1/S1A)

ALUMINIUM CONDUCTOR, STEEL-REINFORCED



Construction

1. Steel Core : Solid or stranded regular strength steel wires (S1A)
2. Conductor : Stranded hard-drawn aluminium wires (A1)

Standard :

TIS 85 - 2548, Table 3.4

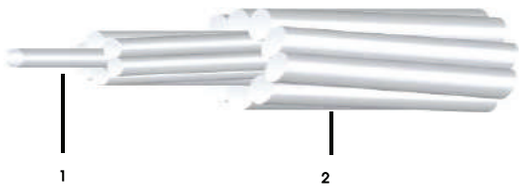
Application

- For aerial power transmission and distribution line.

Code No.	Steel Ratio	Cross-sectional area			Number of wires		Diameter of wire		Diameter		Conductor resistance at 20°C	Rated Tensile Strength	Current rating in free air at 40°C ambient	Conductor weight	Standard length
		Al	Steel	Total	Al	Steel	Al	Steel	Core	Conductor					
	%	mm^2 (Approx.)	mm^2 (Approx.)	mm^2 (Approx.)			mm (Nominal)	mm (Nominal)	mm (Nominal)	mm (Nominal)	Ω/km (Max.)	kN (Min.)	A	kg/km (Approx.)	m/drum
16	17	16	0.00	18.7	6	1	1.84	1.84	1.84	5.53	1.7934	6.08	112	64.6	4,000
25	17	25	4.17	29.2	6	1	2.30	2.30	2.30	6.91	1.1478	9.13	149	100.9	4,000
40	17	40	6.67	46.7	6	1	2.91	2.91	2.91	8.74	0.7174	14.40	201	161.5	3,000
63	17	63	10.5	73.5	6	1	3.66	3.66	3.66	11.00	0.4555	21.63	269	254.4	3,000
100	17	100	16.7	117	6	1	4.61	4.61	4.61	13.80	0.2869	34.33	363	403.8	3,000
125	6	125	6.9	132	18	1	2.97	2.97	2.97	14.90	0.2304	29.17	414	397.9	2,000
125	16	125	20.4	145	26	7	2.47	1.92	5.77	15.70	0.2310	45.69	420	503.9	2,000
160	6	160	8.9	169	18	1	3.36	3.36	3.36	16.80	0.1800	36.18	485	509.3	2,000
160	16	160	26.1	186	26	7	2.80	2.18	6.53	17.70	0.1805	57.69	492	644.9	2,000
200	6	200	11.1	211	18	1	3.76	3.76	3.76	18.80	0.1440	44.22	560	636.7	2,000
200	16	200	32.6	233	26	7	3.13	2.43	7.30	19.80	0.1444	70.13	568	806.2	2,000
250	10	250	24.6	275	22	7	3.80	2.11	6.34	21.60	0.1154	68.72	652	880.6	1,500
250	16	250	40.7	291	26	7	3.50	2.72	8.16	22.20	0.1155	87.67	657	1,007.7	1,500
315	7	315	21.8	337	45	7	2.99	1.99	5.97	23.90	0.0917	79.03	754	1,039.6	1,500
315	16	315	51.3	366	26	7	3.93	3.05	9.16	24.90	0.0917	106.83	763	1,269.7	1,500
400	7	400	27.7	428	45	7	3.36	2.24	6.73	26.90	0.0722	98.36	879	1,320.1	1,000
400	13	400	51.9	452	54	7	3.07	3.07	9.21	27.60	0.0723	123.04	885	1,510.3	1,000
450	7	450	31.1	481	45	7	3.57	2.38	7.14	28.50	0.0642	107.47	947	1,485.2	1,000
450	13	450	58.3	508	54	7	3.26	3.26	9.77	29.30	0.0643	138.42	955	1,699.1	1,000
500	7	500	34.6	535	45	7	3.76	2.51	7.52	30.10	0.0578	119.41	1,014	1,650.2	1,000
500	13	500	64.8	565	54	7	3.43	3.43	10.30	30.90	0.0578	153.80	1,022	1,887.9	1,000
560	7	560	38.7	599	45	7	3.98	2.65	7.96	31.80	0.0516	133.74	1,089	1,848.2	1,000
560	13	560	70.9	631	54	19	3.63	2.18	10.90	32.70	0.0516	172.59	1,099	2,103.4	1,000
630	7	630	43.6	674	45	7	4.22	2.81	8.44	33.80	0.0459	150.45	1,174	2,079.2	1,000
630	13	630	79.8	710	54	19	3.85	2.31	11.60	34.70	0.0459	191.77	1,184	2,366.3	1,000
710	7	710	49.1	759	45	7	4.48	2.99	8.96	35.90	0.0407	169.56	1,266	2,343.2	500
710	13	710	89.9	800	54	19	4.09	2.45	12.30	36.80	0.0407	216.12	1,276	2,666.8	500
800	4	800	34.6	835	72	7	3.76	2.51	7.52	37.60	0.0361	167.41	1,358	2,480.2	500
800	8	800	66.7	867	84	7	3.48	3.48	10.40	38.30	0.0362	205.33	1,365	2,732.7	500
800	13	800	101.0	901	54	19	4.34	2.61	13.00	39.10	0.0362	243.52	1,374	3,004.9	500
900	4	900	38.9	939	72	7	3.99	2.66	7.98	39.90	0.0321	188.33	1,461	2,790.2	500
900	8	900	75.0	975	84	7	3.69	3.69	11.10	40.60	0.0322	226.50	1,467	3,074.2	500
1000	4	1000	43.2	1043	72	7	4.21	2.80	8.41	42.10	0.0289	209.26	1,557	3,100.3	500
1120	4	1120	47.3	1167	72	19	4.45	1.78	8.90	44.50	0.0258	234.53	1,666	3,464.9	500
1120	8	1120	91.2	1211	84	19	4.12	2.47	12.40	45.30	0.0258	283.17	1,675	3,811.5	500
1250	8	1250	102.0	1352	84	19	4.35	2.61	13.10	47.90	0.0232	316.04	1,784	4,253.9	500
1250	4	1250	52.8	1303	72	19	4.70	1.88	9.40	47.00	0.0231	261.75	1,777	3,867.1	500

ACSR

ALUMINIUM CONDUCTOR, STEEL-REINFORCED



Construction

1. Steel Core : Solid or stranded regular strength galvanized steel wires
2. Conductor : Stranded hard-drawn aluminium wires

Reference Standard :

TIS 85 - 2548

(Reference to TIS 86 - 2522)

Application

- For aerial power transmission and distribution line.

Cross sectional area	Cross-sectional area			Number of wires		Diameter of wire		Diameter		Conductor resistance at 20°C	Rated Tensile Strength	Current rating in free air at 40°C ambient	Conductor weight	Standard length
(Al/St) mm² (Nominal)	Al mm² (Approx.)	Steel mm² (Approx.)	Total mm² (Approx.)	Al	Steel	Al mm (Nominal)	Steel mm (Nominal)	Steel Core mm (Nominal)	Conductor mm (Nominal)	Ω/km (Max.)	kN (Min.)	A	kg/km (Approx.)	m/drum
16/2.5	15.3	2.6	17.9	6	1	1.80	1.80	1.80	5.40	1.8786	5.805	90	62	4,000
25/4	23.8	4.0	27.8	6	1	2.25	2.25	2.25	6.75	1.2023	8.982	125	97	4,000
35/6	34.3	5.7	40.0	6	1	2.70	2.70	2.70	8.10	0.8349	12.405	145	139	3,000
50/8	48.3	8.0	56.3	6	1	3.20	3.20	3.20	9.60	0.5944	16.827	170	195	3,000
50/30	51.2	29.8	81.0	12	7	2.33	2.33	6.99	11.65	0.5642	42.95	170	375	2,000
70/12	69.9	11.4	81.3	26	7	1.85	1.44	4.32	11.70	0.413	26.241	290	282	2,000
95/15	94.4	15.3	109.7	26	7	2.15	1.67	5.01	13.60	0.3058	34.958	350	381	2,000
95/55	96.5	56.3	152.8	12	7	3.20	3.20	9.60	16.00	0.2991	78.105	350	708	2,000
120/20	121.6	19.8	141.4	26	7	2.44	1.90	5.70	15.50	0.2374	44.666	410	491	2,000
120/70	122	71.3	193.3	12	7	3.60	3.60	10.80	18.00	0.2363	98.393	410	896	2,000
125/30	127.9	29.8	157.7	30	7	2.33	2.33	6.99	16.31	0.2258	56.473	425	587	2,000
150/25	148.9	24.2	173.1	26	7	2.70	2.10	6.30	17.10	0.1939	54.06	470	601	1,500
170/40	171.8	40.1	211.9	30	7	2.70	2.70	8.10	18.90	0.1682	75.261	520	789	1,500
185/30	183.8	29.8	213.6	26	7	3.00	2.33	6.99	19.00	0.1571	64.896	535	741	1,500
210/35	209.1	34.1	243.2	26	7	3.20	2.49	7.47	20.30	0.138	73.437	590	844	1,500
210/50	212.1	49.5	261.6	30	7	3.00	3.00	9.00	21.00	0.1362	92.078	610	974	1,000
230/30	230.9	29.8	260.7	24	7	3.50	2.33	6.99	21.00	0.1249	71.711	630	871	1,000
240/40	243	39.5	282.5	26	7	3.45	2.68	8.04	21.90	0.1188	84.724	645	981	1,000
265/35	263.7	34.1	297.8	24	7	3.74	2.49	7.47	22.40	0.1094	81.458	680	995	1,000
300/50	304.3	49.5	353.8	26	7	3.86	3.00	9.00	24.50	0.0949	104.944	740	1,228	1,000
305/40	304.6	39.5	344.1	54	7	2.68	2.68	8.04	24.10	0.0949	97.491	740	1,152	1,000
380/50	382	49.5	431.5	54	7	3.00	3.00	9.00	27.00	0.0756	120.731	840	1,443	1,000
435/55	434.3	56.3	490.6	54	7	3.20	3.20	9.60	28.80	0.0666	134.077	900	1,642	1,000
490/65	490.3	63.6	553.9	54	7	3.40	3.40	10.20	30.60	0.059	150.453	960	1,853	1,000
550/70	550	71.3	621.3	54	7	3.60	3.60	10.80	32.40	0.0526	167.643	1,020	2,078	1,000
680/85	678.8	86.0	764.8	54	19	4.00	2.40	12.00	36.00	0.0426	206.318	1,150	2,552	500

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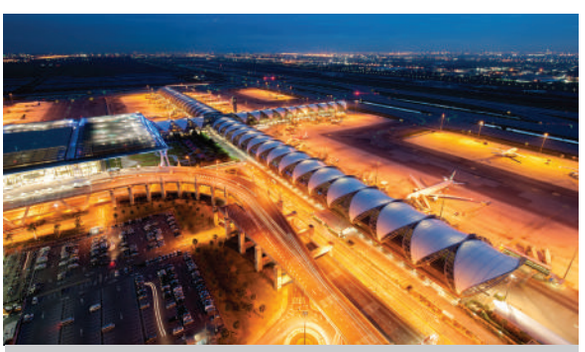


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BANGKOK CABLE

PRODUCT CATALOGUE

Low Smoke Halogen Free & Fire Resistant Cables

Revision : 04

BANGKOK CABLE

Low Smoke Halogen Free & Fire Resistant Cables

Publication : 2021

(Revision : 04, May 2021)

TÜV SÜD Certification Mark

BS Standard

IEC Standard

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REFERENCE STANDARDS

CABLES CONSTRUCTION

- IEC 60502-1 : Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV) - Part 1 : Cables for rated voltages of 1 kV (Um = 1.2 kV) and 3 kV (Um = 3.6 kV).
  (Equivalent standard: AS 3198)

- IEC 60228 : Conductors of insulated cables.
  (Equivalent standard: AS 1125, BS EN 60228)

- BS EN 50525-3-41 : Electric cables – Low voltage energy cables of rated voltages up to and including 450/750 V (U_0/U) – Part 3-41 : Cables with special fire performance – single core non-sheathed cables with halogen-free crosslinked insulation, and low emission of smoke

FIRE TEST PERFORMANCE

- BS 6387 : Performance requirements for cables required to maintain circuit integrity under fire conditions.
  Category C: Resistance to fire alone
  Category W: Resistance to fire with water
  Category Z: Resistance to fire with mechanical shock
  (Equivalent standard: AS/NZS 1660.5.5, SS 299 Part 1)

- IEC 60332-3 : Tests on electric and optical fibre cables under fire conditions - Part 3 : Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A F/R, A, B, C, D
  (Equivalent standard: AS/NZS 1660.5.1, BS EN 60332-3)

- IEC 60331-21 : Tests for electric cables under fire condition-Circuit integrity - part 21: Procedures and requirements - Cables of rated voltage up to and including 0.6/1 kV.

- IEC 61034 : Measurement of smoke density of cables burning under defined conditions.
  (Equivalent standard: AS/NZS 1660.5.2, BS EN 61034)

- IEC 60754-2 : Test on gases evolved during combustion of electric cables - Part 2 Determination of degree of acidity of gases evolved during the combustion of materials taken from electric cables by measuring pH and conductivity.
  (Equivalent standard: AS/NZS 1660.5.4, BS EN 60754-2)

- IEC 60754-1 : Test on gases evolved during combustion of materials from cables - Part 1 : Determination of the amount of halogen acid gases.
  (Equivalent standard: AS/NZS 1660.5.3, BS EN 60754-1)

- IEC 60332-1 : Tests on electric and optical fibre cables under fire conditions - Part 1-2 : Test for vertical flame propagation for a single insulated wires and cables.
  (Equivalent standard: BS EN 60332-1-2)

- IEEE 1202 : IEEE Standard for Flame-Propagation Testing of Wire and Cable
  (20 kW, 20 min, 70,000 Btu/h, after burn, cable, char, charring, flame propagation, test protocol, vertical cable tray, wire)

RELEVANT STANDARDS

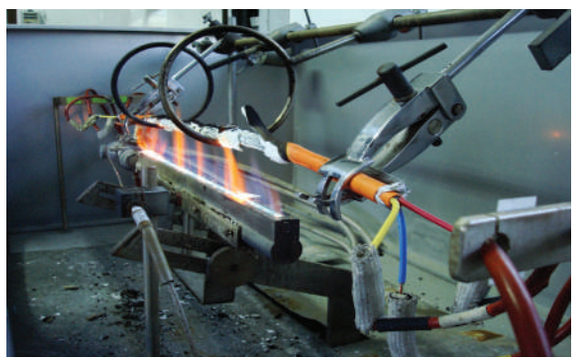
SPECIFICATION OF CABLE	FIRE RESISTANT TESTS	FLAME RETARDANT TESTS	TEST ON ACID GAS EVOLVED	SMOKE DENSITY TESTS
BS 6724 BS 7211 BS 7629 BS 7846 BS EN 50525-3-41 IEC 60502-1	BS 6387 CAT. C,W,Z IEC 60331 SS 299 CAT. C,W,Z	BS EN 60332-1-2 BS EN 60332-3 IEC 60332-1 IEC 60332-3 IEEE 1202	BS EN 60754 IEC 60754 (BS EN 50267-2-1)	BS EN 61034 IEC 61034

Scope of Testing

BS 6387: FIRE RESISTANCE TESTS

The following tests are used to determine the electric cable capability of maintaining circuit integrity under fire conditions. Depending on the level achieved by the cable, a corresponding letter is assigned according to denote the category the cable passed.

RESISTANCE TO FIRE ALONE	Symbol
650°C for 3 hours	A
750°C for 3 hours	B
950°C for 3 hours	C
950°C for 20 minutes	S



RESISTANCE TO FIRE WITH WATER	Symbol
650°C for 15 minutes followed by water spray for another 15 minutes.	W



RESISTANCE TO FIRE WITH MECHANICAL SHOCK	Symbol
650°C for 15 minutes with 30 second interval hammer blows.	X
750°C for 15 minutes with 30 second interval hammer blows.	Y
950°C for 15 minutes with 30 second interval hammer blows.	Z



IEC 60332-3: FLAME PROPAGATION TEST (BUNCHED)

This test defines the ability of bunched cables to restrict flame propagation when laid in trunking, cable trays or conduit. The test comprises of 5 categories which classify by total volume of combustible material in a 1 metre sample, as shown in the table below:

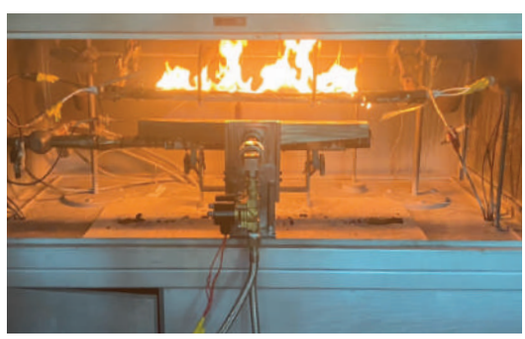


CATEGORY	IEC 60332-3-21	IEC 60332-3-22	IEC 60332-3-23	IEC 60332-3-24	IEC 60332-3-25
	A F/R	A	B	C	D
No. of litres of combustible material in a 1 metre sample	7	7	3.5	1.5	0.5
Exposure to fire in minutes	40	40	40	20	20

The cable samples are placed on vertical ladder where they are exposed to fire from a ribbon gas burner. After burning or glowing has ceased, the samples are wiped clean to examine the onset charring which shall not reached a height exceeding 2.5 meters above the bottom edge of the burner.

IEC 60331-21: FIRE TEST

A cable sample of 1200 mm in length is placed over a gas burner and connected to an electrical supply at it's rated voltage. Fire with temperature at least 750°C is applied for a period of 90 minutes. Then the flame shall be extinguish but cable shall remain energised for a further 15 minutes, cable must maintain its circuit integrity.



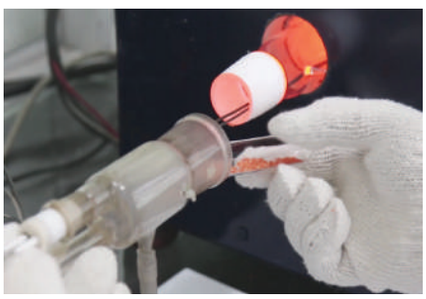
IEC 61034-2: SMOKE DENSITY TEST (BS EN 61034)

The "3 metre cube test" measures the generation of smoke from electric cables during fire. A light beam emitted from a window is projected across the enclosure to a photocell connected to a recorder at the opposite window. The recorder is adjusted for light on the detector corresponding to 0% (absence of light) and 100 % luminous transmission. With the test sample supported above alcohol tray and start the air circulation, ignite the alcohol. The test is considered as end when there is no decrease in light transmittance for 5 minutes after the fire source has extinguished or when the test duration reachs 40 minutes. Record the minimum light transmittance which should not less than 60 %.



IEC 60754-2: ACID GAS EMISSION TEST (BS EN 60754-2)

This test specifies a method for the determination of the degree of acidity of gases evolved during combustion of cables by measuring pH and conductivity. The performance requirements of this standard state the weighted pH value should not be less than 4.3 when related to 1 litre of water and the weighted value of conductivity should not exceed 10 µS/mm.





IEC 60754-1: HALOGEN ACID GAS CONTENT TEST (BS EN 60754-1)

To determine amount of halogen acid gas evolved during the combustion of compounds based on halogenated polymers and compounds containing halogenated additives taken from electric or optical fibre cable constructions. No requirements for conformity are included in this standard.



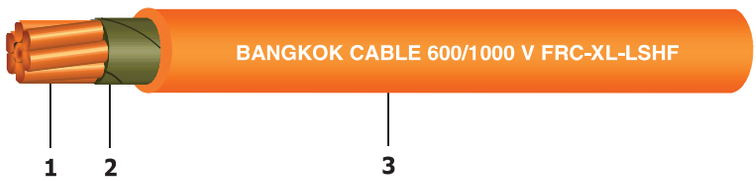
IEC 60332-1-2: FLAME PROPAGATION TEST (SINGLE)

This test defines the ability of single vertical insulated wire or cable to restrict flame propagation when affected by fire. The flame shall be applied continuously for the period of time corresponding to the cable diameter. After all burning has ceased, the surface of the sample shall be wiped clean. The distance between the lower edge of the top support and the onset of charring shall greater than 50 mm.



600/1000 V FRC-XL-LSHF (1 CORE)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES (NON-SHEATHED)



Reference standard

Construction : BS EN 50525-3-41

Standards Achieved :

Circuit integrity : BS 6387 Categories C, W, Z
: IEC 60331-21
Flame propagation : IEC 60332-1-2
: IEC 60332-3-24 Category C
Acid gas emission : IEC 60754-1
: IEC 60754-2
Smoke emission : IEC 61034-2

Construction :

1. Conductor : Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape : Mica tape
3. Insulation : Cross-linked low smoke & halogen free compound (XL-LSHF), Orange colour

Classification :

Maximum conductor temperature : 90°C
Maximum circuit voltage : 1,000 V
AC test voltage : 3,500 V

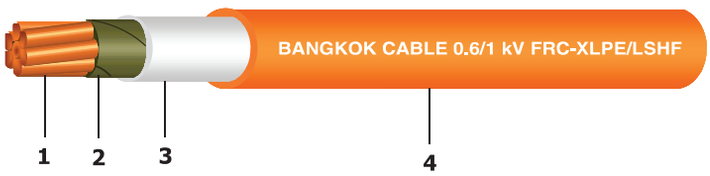
Application :

Preferably used for installation into trunking and conduit which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 90°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2		mm	mm	mm	Ω/km	MΩ.km	A	kg/km	m
		(Min.)	(Approx.)	(Nominal)	(Approx.)	(Max.)	(Min.)		(Approx.)	
1	1.5	7	1.53	0.7	4.0	12.1	0.010	24	25	500
1	2.5	7	1.98	0.8	4.5	7.41	0.009	33	40	500
1	4	7	2.49	0.8	5.0	4.61	0.0077	45	55	500
1	6	7	3.09	0.8	5.5	3.08	0.0065	57	75	300
1	10	6	3.72	1.0	6.5	1.83	0.0065	79	120	300
1	16	6	4.69	1.0	7.5	1.15	0.0050	105	180	300
1	25	6	5.90	1.2	9.5	0.727	0.0050	140	280	300
1	35	6	6.95	1.2	10.5	0.524	0.0043	175	375	300
1	50	6	8.33	1.4	12.5	0.387	0.0043	215	510	300
1	70	12	9.73	1.4	13.5	0.268	0.0035	275	715	300
1	95	15	11.43	1.6	16.0	0.193	0.0035	340	985	300
1	120	18	12.95	1.6	17.5	0.153	0.0032	400	1,230	300
1	150	18	14.27	1.8	19.5	0.124	0.0032	460	1,525	300
1	185	30	15.98	2.0	21.5	0.0991	0.0032	530	1,900	300
1	240	34	18.47	2.2	24.5	0.0754	0.0032	640	2,490	300
1	300	34	20.68	2.4	27.0	0.0601	0.0030	745	3,115	300
1	400	53	23.39	2.6	30.0	0.0470	0.0028	870	3,965	300

0.6/1 kV FRC-XLPE/LSHF (1 CORE)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z
	: IEC 60331-21
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE), Natural colour
4. Sheath	: Low smoke & halogen free compound (LSHF), Orange colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

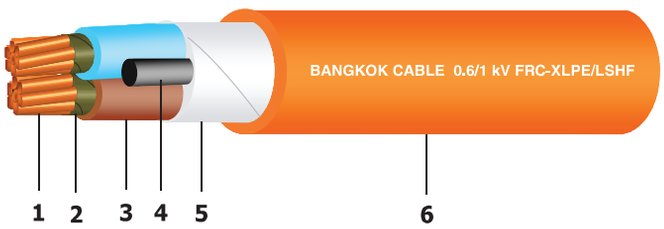
Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
1	1.5	7	1.53	0.7	1.4	7.0	12.1	27	60	500
1	2.5	7	1.98	0.7	1.4	7.5	7.41	38	70	500
1	4	7	2.49	0.7	1.4	8.0	4.61	51	90	500
1	6	7	3.09	0.7	1.4	8.5	3.08	66	110	500
1	10	6	3.72	0.7	1.4	9.5	1.83	92	160	500
1	16	6	4.69	0.7	1.4	10.0	1.15	124	220	500
1	25	6	5.90	0.9	1.4	12.0	0.727	166	320	500
1	35	6	6.95	0.9	1.4	13.0	0.524	206	420	500
1	50	6	8.33	1.0	1.4	14.5	0.387	259	550	500
1	70	12	9.73	1.1	1.4	16.0	0.268	321	760	500
1	95	15	11.43	1.1	1.5	18.0	0.193	391	1,030	500
1	120	18	12.95	1.2	1.5	20.0	0.153	455	1,280	500
1	150	18	14.27	1.4	1.6	22.0	0.124	525	1,580	500
1	185	30	15.98	1.6	1.6	24.0	0.0991	602	1,950	500
1	240	34	18.47	1.7	1.7	27.0	0.0754	711	2,540	500
1	300	34	20.68	1.8	1.8	29.5	0.0601	821	3,160	500
1	400	53	23.39	2.0	1.9	33.0	0.0470	988	4,010	500

0.6/1 kV FRC-XLPE/LSHF (2 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z
	: IEC 60331-21
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE)
	Blue, Brown colour or requested colour
4. Filler	: LSHF rod
5. Binding tape	: Fiberglass tape
6. Sheath	: Low smoke & halogen free compound (LSHF), Orange colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

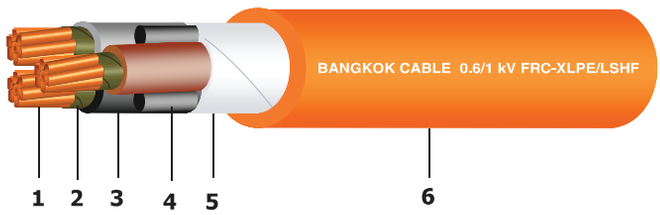
Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
2	1.5	7	1.53	0.7	1.8	13.0	12.1	24	160	500
2	2.5	7	1.98	0.7	1.8	13.5	7.41	33	190	500
2	4	7	2.49	0.7	1.8	15.0	4.61	44	250	500
2	6	7	3.09	0.7	1.8	16.0	3.08	57	310	500
2	10	6	3.72	0.7	1.8	17.0	1.83	78	410	500
2	16	6	4.69	0.7	1.8	19.0	1.15	105	560	500
2	25	6	5.90	0.9	1.8	22.5	0.727	135	820	500
2	35	6	6.95	0.9	1.8	25.0	0.524	168	1,070	500
2	50	6	8.33	1.0	1.8	28.0	0.387	212	1,400	500
2	70	12	9.73	1.1	1.8	31.5	0.268	263	1,900	500
2	95	15	11.43	1.1	1.9	35.0	0.193	321	2,540	500
2	120	18	12.95	1.2	2.0	38.5	0.153	373	3,160	500
2	150	18	14.27	1.4	2.1	42.5	0.124	431	3,880	400
2	185	30	15.98	1.6	2.3	47.5	0.0991	493	4,840	400
2	240	34	18.47	1.7	2.5	53.0	0.0754	584	6,260	300
2	300	34	20.68	1.8	2.6	58.5	0.0601	674	7,730	250
2	400	53	23.39	2.0	2.9	65.5	0.0470	812	9,840	200

0.6/1 kV FRC-XLPE/LSHF (3 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z
	: IEC 60331-21
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE)
	Brown, Black, Grey colour or requested colour
4. Filler	: LSHF rod
5. Binding tape	: Fiberglass tape
6. Sheath	: Low smoke & halogen free compound (LSHF), Orange colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
3	1.5	7	1.53	0.7	1.8	13.5	12.1	21	190	500
3	2.5	7	1.98	0.7	1.8	14.5	7.41	29	240	500
3	4	7	2.49	0.7	1.8	15.5	4.61	38	300	500
3	6	7	3.09	0.7	1.8	17.0	3.08	49	380	500
3	10	6	3.72	0.7	1.8	18.0	1.83	68	520	500
3	16	6	4.69	0.7	1.8	20.0	1.15	91	740	500
3	25	6	5.90	0.9	1.8	24.0	0.727	116	1,100	500
3	35	6	6.95	0.9	1.8	26.5	0.524	144	1,430	500
3	50	6	8.33	1.0	1.8	30.0	0.387	180	1,880	500
3	70	12	9.73	1.1	1.9	33.5	0.268	224	2,600	500
3	95	15	11.43	1.1	2.0	37.5	0.193	271	3,490	500
3	120	18	12.95	1.2	2.1	41.5	0.153	315	4,350	500
3	150	18	14.27	1.4	2.2	45.5	0.124	363	5,340	400
3	185	30	15.98	1.6	2.4	51.0	0.0991	415	6,660	400
3	240	34	18.47	1.7	2.6	57.0	0.0754	490	8,650	250
3	300	34	20.68	1.8	2.7	62.5	0.0601	565	10,710	200
3	400	53	23.39	2.0	3.0	70.0	0.0470	678	13,620	150

0.6/1 kV FRC-XLPE/LSHF (4 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z
	: IEC 60331-21
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE)
	Blue, Brown, Black, Grey colour or requested colour
4. Filler	: LSHF rod
5. Binding tape	: Fiberglass tape
6. Sheath	: Low smoke & halogen free compound (LSHF), Orange colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
4	1.5	7	1.53	0.7	1.8	14.5	12.1	21	230	500
4	2.5	7	1.98	0.7	1.8	15.5	7.41	29	290	500
4	4	7	2.49	0.7	1.8	17.0	4.61	38	370	500
4	6	7	3.09	0.7	1.8	18.5	3.08	49	480	500
4	10	6	3.72	0.7	1.8	20.0	1.83	68	660	500
4	16	6	4.69	0.7	1.8	22.0	1.15	91	930	500
4	25	6	5.90	0.9	1.8	26.5	0.727	116	1,400	500
4	35	6	6.95	0.9	1.8	29.0	0.524	144	1,840	500
4	50	6	8.33	1.0	1.8	33.0	0.387	180	2,420	500
4	70	12	9.73	1.1	2.0	37.5	0.268	224	3,380	500
4	95	15	11.43	1.1	2.1	41.5	0.193	271	4,540	400
4	120	18	12.95	1.2	2.3	46.5	0.153	315	5,680	400
4	150	18	14.27	1.4	2.4	51.0	0.124	363	6,980	300
4	185	30	15.98	1.6	2.6	56.5	0.0991	415	8,710	250
4	240	34	18.47	1.7	2.8	63.5	0.0754	490	11,310	200
4	300	34	20.68	1.8	3.0	70.0	0.0601	565	14,040	150
4	400	53	23.39	2.0	3.3	78.5	0.0470	678	17,850	100

0.6/1 kV FRC-XLPE/SWA/LSHF (2 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES WITH ARMOUR



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z
	: IEC 60331-21
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE)
	Blue, Brown colour or requested colour
4. Filler	: LSHF rod and/or FR-filler yarn
5. Binding tape	: Polyester tape
6. Inner sheath	: Low smoke & halogen free compound (LSHF)
7. Armour	: Galvanized steel wires
8. Binding tape	: Polyester tape
9. Outer sheath	: Low smoke & halogen free compound (LSHF), Orange colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

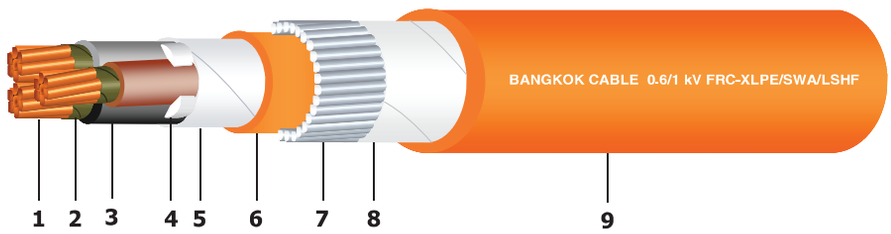
Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter of wire armour	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter									
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
2	1.5	7	1.53	0.7	1.0	0.8	1.8	17.5	12.1	26	420	500
2	2.5	7	1.98	0.7	1.0	0.8	1.8	18.5	7.41	35	480	500
2	4	7	2.49	0.7	1.0	1.25	1.8	20.5	4.61	46	680	500
2	6	7	3.09	0.7	1.0	1.25	1.8	21.5	3.08	59	770	500
2	10	6	3.72	0.7	1.0	1.25	1.8	23.0	1.83	80	910	500
2	16	6	4.69	0.7	1.0	1.25	1.8	25.0	1.15	105	1,120	500
2	25	6	5.90	0.9	1.0	1.6	1.8	29.0	0.727	140	1,630	500
2	35	6	6.95	0.9	1.0	1.6	1.8	31.5	0.524	170	1,960	500
2	50	6	8.33	1.0	1.0	1.6	1.9	35.0	0.387	210	2,430	500
2	70	12	9.73	1.1	1.0	2.0	2.1	39.5	0.268	260	3,340	500
2	95	15	11.43	1.1	1.2	2.0	2.2	43.5	0.193	320	4,190	400
2	120	18	12.95	1.2	1.2	2.0	2.3	47.0	0.153	370	4,970	400
2	150	18	14.27	1.4	1.2	2.5	2.4	52.0	0.124	420	6,270	300
2	185	30	15.98	1.6	1.4	2.5	2.6	57.0	0.0991	480	7,550	300
2	240	34	18.47	1.7	1.4	2.5	2.8	63.0	0.0754	560	9,300	200
2	300	34	20.68	1.8	1.6	2.5	2.9	68.5	0.0601	635	11,150	150
2	400	53	23.39	2.0	1.6	2.5	3.2	75.5	0.0470	725	13,650	100

0.6/1 kV FRC-XLPE/SWA/LSHF (3 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES WITH ARMOUR



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z
	: IEC 60331-21
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE)
	Brown, Black, Grey colour or requested colour
4. Filler	: LSHF rod and/or FR-filler yarn
5. Binding tape	: Polyester tape
6. Inner sheath	: Low smoke & halogen free compound (LSHF)
7. Armour	: Galvanized steel wires
8. Binding tape	: Polyester tape
9. Outer sheath	: Low smoke & halogen free compound (LSHF), Orange colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

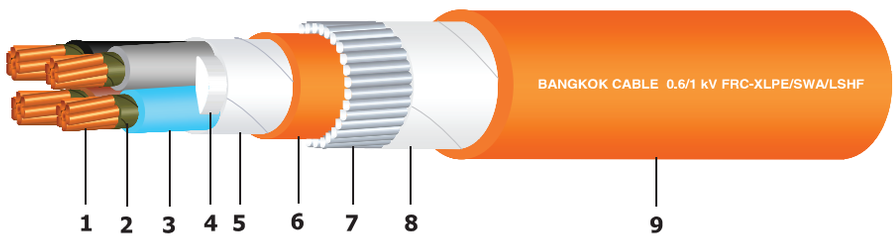
Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter of wire armour	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter									
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
3	1.5	7	1.53	0.7	1.0	0.8	1.8	18.5	12.1	22	460	500
3	2.5	7	1.98	0.7	1.0	0.8	1.8	19.5	7.41	29	530	500
3	4	7	2.49	0.7	1.0	1.25	1.8	21.5	4.61	39	750	500
3	6	7	3.09	0.7	1.0	1.25	1.8	22.5	3.08	50	870	500
3	10	6	3.72	0.7	1.0	1.25	1.8	24.0	1.83	67	1,050	500
3	16	6	4.69	0.7	1.0	1.6	1.8	27.0	1.15	89	1,470	500
3	25	6	5.90	0.9	1.0	1.6	1.8	30.5	0.727	120	1,960	500
3	35	6	6.95	0.9	1.0	1.6	1.9	33.0	0.524	145	2,410	500
3	50	6	8.33	1.0	1.0	1.6	2.0	37.0	0.387	175	2,990	500
3	70	12	9.73	1.1	1.2	2.0	2.1	42.0	0.268	220	4,170	500
3	95	15	11.43	1.1	1.2	2.0	2.2	46.0	0.193	275	5,210	400
3	120	18	12.95	1.2	1.2	2.5	2.4	51.0	0.153	315	6,700	400
3	150	18	14.27	1.4	1.4	2.5	2.5	55.5	0.124	360	7,960	300
3	185	30	15.98	1.6	1.4	2.5	2.7	60.5	0.0991	410	9,570	250
3	240	34	18.47	1.7	1.6	2.5	2.9	67.5	0.0754	480	11,980	200
3	300	34	20.68	1.8	1.6	2.5	3.1	73.5	0.0601	550	14,410	150
3	400	53	23.39	2.0	1.6	3.15	3.4	82.0	0.0470	625	18,620	100

0.6/1 kV FRC-XLPE/SWA/LSHF (4 CORES)

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CABLES WITH ARMOUR



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z
	: IEC 60331-21
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked polyethylene (XLPE)
	Blue, Brown, Black, Grey colour or requested colour
4. Filler	: LSHF rod and/or FR-filler yarn
5. Binding tape	: Polyester tape
6. Inner sheath	: Low smoke & halogen free compound (LSHF)
7. Armour	: Galvanized steel wires
8. Binding tape	: Polyester tape
9. Outer sheath	: Low smoke & halogen free compound (LSHF), Orange colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

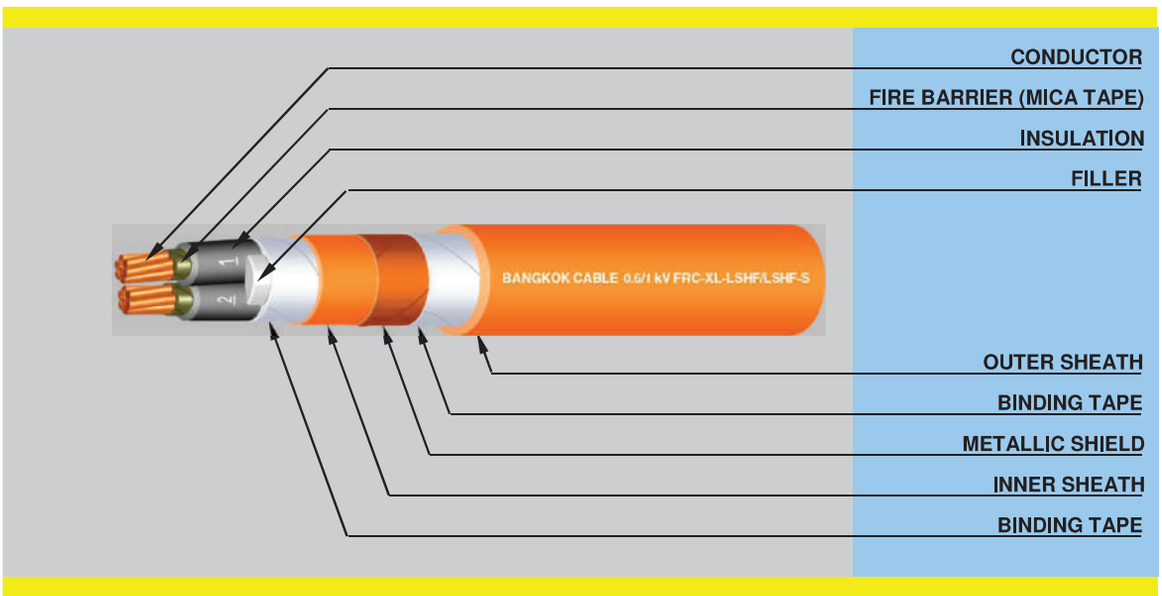
Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter of wire armour	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter									
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
4	1.5	7	1.53	0.7	1.0	0.8	1.8	19.5	12.1	22	520	500
4	2.5	7	1.98	0.7	1.0	1.25	1.8	21.5	7.41	29	740	500
4	4	7	2.49	0.7	1.0	1.25	1.8	23.0	4.61	39	860	500
4	6	7	3.09	0.7	1.0	1.25	1.8	24.0	3.08	50	1,010	500
4	10	6	3.72	0.7	1.0	1.25	1.8	25.5	1.83	67	1,230	500
4	16	6	4.69	0.7	1.0	1.6	1.8	28.5	1.15	89	1,730	500
4	25	6	5.90	0.9	1.0	1.6	1.8	33.0	0.727	120	2,360	500
4	35	6	6.95	0.9	1.0	1.6	1.9	36.0	0.524	145	2,910	500
4	50	6	8.33	1.0	1.0	2.0	2.1	41.0	0.387	175	3,920	400
4	70	12	9.73	1.1	1.2	2.0	2.2	45.5	0.268	220	5,100	400
4	95	15	11.43	1.1	1.2	2.5	2.4	51.0	0.193	275	6,880	300
4	120	18	12.95	1.2	1.4	2.5	2.6	56.5	0.153	315	8,350	250
4	150	18	14.27	1.4	1.4	2.5	2.7	61.0	0.124	360	9,890	200
4	185	30	15.98	1.6	1.6	2.5	2.9	67.0	0.0991	410	12,040	150
4	240	34	18.47	1.7	1.6	2.5	3.1	74.0	0.0754	480	15,020	100
4	300	34	20.68	1.8	1.6	3.15	3.3	82.0	0.0601	550	18,990	100
4	400	53	23.39	2.0	1.8	3.15	3.6	90.5	0.0470	625	23,470	100

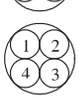
0.6/1 kV FRC-XL-LSHF/LSHF-S

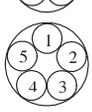
FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CONTROL CABLES

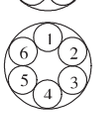


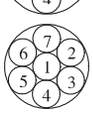

2 Cores

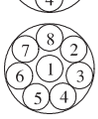

3 Cores

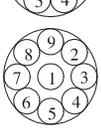

4 Cores

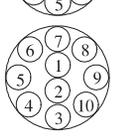

5 Cores

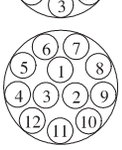

6 Cores

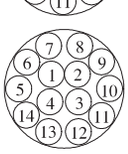

7 Cores

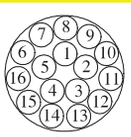

8 Cores

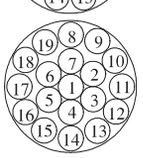

9 Cores

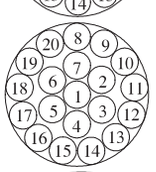

10 Cores

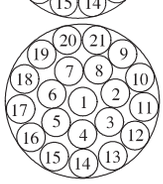

12 Cores

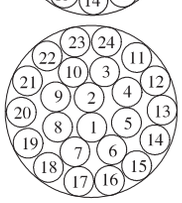

14 Cores

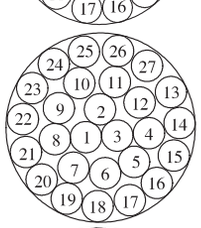

16 Cores

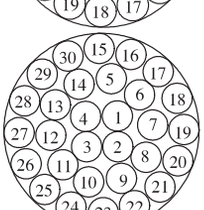

19 Cores


20 Cores


21 Cores

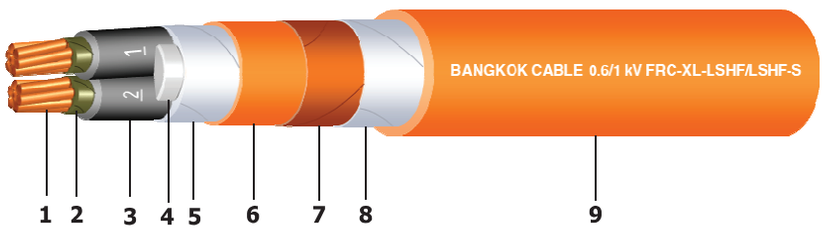

24 Cores


27 Cores


30 Cores

0.6/1 kV FRC-XL-LSHF/LSHF-S

FIRE RESISTANT WITH LOW SMOKE & HALOGEN FREE CONTROL CABLES WITH METALLIC SHIELD



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Circuit integrity	: BS 6387 Categories C, W, Z
	: IEC 60331-21
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3 Categories A, B, C
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded copper wires
2. Fire barrier tape	: Mica tape
3. Insulation	: Cross-linked low smoke & halogen free compound (XL-LSHF), Black marking number
4. Filler	: LSHF rod and/or FR-filler yarn
5. Binding tape	: Polyester tape
6. Inner sheath	: Low smoke & halogen free compound (LSHF)
7. Metallic shield	: Annealed copper tape
8. Binding tape	: Polyester tape
9. Outer sheath	: Low smoke & halogen free compound (LSHF), Orange colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties and maintain circuit integrity in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter								
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m
2	1.5	7	1.53	0.7	1.0	1.8	15.5	12.1	2,500	280	500
	2.5	7	1.98	0.7	1.0	1.8	16.0	7.41	2,100	320	500
	4	7	2.49	0.7	1.0	1.8	17.5	4.61	1,800	390	500
	6	7	3.09	0.7	1.0	1.8	18.5	3.08	1,500	460	500
	10	7	3.99	0.7	1.0	1.8	20.5	1.83	1,200	600	500
3	1.5	7	1.53	0.7	1.0	1.8	16.0	12.1	2,500	330	500
	2.5	7	1.98	0.7	1.0	1.8	17.0	7.41	2,100	380	500
	4	7	2.49	0.7	1.0	1.8	18.0	4.61	1,800	460	500
	6	7	3.09	0.7	1.0	1.8	19.5	3.08	1,500	560	500
	10	7	3.99	0.7	1.0	1.8	21.5	1.83	1,200	740	500
4	1.5	7	1.53	0.7	1.0	1.8	17.0	12.1	2,500	380	500
	2.5	7	1.98	0.7	1.0	1.8	18.0	7.41	2,100	450	500
	4	7	2.49	0.7	1.0	1.8	19.5	4.61	1,800	550	500
	6	7	3.09	0.7	1.0	1.8	21.0	3.08	1,500	670	500
	10	7	3.99	0.7	1.0	1.8	23.0	1.83	1,200	910	500
5	1.5	7	1.53	0.7	1.0	1.8	18.5	12.1	2,500	430	500
	2.5	7	1.98	0.7	1.0	1.8	19.5	7.41	2,100	520	500
	4	7	2.49	0.7	1.0	1.8	21.0	4.61	1,800	640	500
	6	7	3.09	0.7	1.0	1.8	22.5	3.08	1,500	790	500
	10	7	3.99	0.7	1.0	1.8	25.0	1.83	1,200	1,080	500

BCC
BANGKOK CABLE

0.6/1 kV FRC-XL-LSHF/LSHF-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter								
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m
6	1.5	7	1.53	0.7	1.0	1.8	19.5	12.1	2,500	470	500
	2.5	7	1.98	0.7	1.0	1.8	21.0	7.41	2,100	570	500
	4	7	2.49	0.7	1.0	1.8	22.5	4.61	1,800	700	500
	6	7	3.09	0.7	1.0	1.8	24.0	3.08	1,500	880	500
	10	7	3.99	0.7	1.0	1.8	27.0	1.83	1,200	1,200	500
7	1.5	7	1.53	0.7	1.0	1.8	19.5	12.1	2,500	480	500
	2.5	7	1.98	0.7	1.0	1.8	21.0	7.41	2,100	580	500
	4	7	2.49	0.7	1.0	1.8	22.5	4.61	1,800	730	500
	6	7	3.09	0.7	1.0	1.8	24.0	3.08	1,500	920	500
	10	7	3.99	0.7	1.0	1.8	27.0	1.83	1,200	1,280	500
8	1.5	7	1.53	0.7	1.0	1.8	21.0	12.1	2,500	550	500
	2.5	7	1.98	0.7	1.0	1.8	22.0	7.41	2,100	660	500
	4	7	2.49	0.7	1.0	1.8	24.0	4.61	1,800	840	500
	6	7	3.09	0.7	1.0	1.8	26.0	3.08	1,500	1,050	500
	10	7	3.99	0.7	1.0	1.8	29.0	1.83	1,200	1,470	500
9	1.5	7	1.53	0.7	1.0	1.8	22.0	12.1	2,500	610	500
	2.5	7	1.98	0.7	1.0	1.8	23.5	7.41	2,100	740	500
	4	7	2.49	0.7	1.0	1.8	25.5	4.61	1,800	930	500
	6	7	3.09	0.7	1.0	1.8	27.5	3.08	1,500	1,180	500
	10	7	3.99	0.7	1.0	1.8	31.0	1.83	1,200	1,650	500
10	1.5	7	1.53	0.7	1.0	1.8	23.5	12.1	2,500	660	500
	2.5	7	1.98	0.7	1.0	1.8	25.5	7.41	2,100	800	500
	4	7	2.49	0.7	1.0	1.8	27.5	4.61	1,800	1,020	500
	6	7	3.09	0.7	1.0	1.8	30.0	3.08	1,500	1,290	500
	10	7	3.99	0.7	1.0	1.8	33.5	1.83	1,200	1,800	500
11	1.5	7	1.53	0.7	1.0	1.8	24.5	12.1	2,500	710	500
	2.5	7	1.98	0.7	1.0	1.8	26.0	7.41	2,100	870	500
	4	7	2.49	0.7	1.0	1.8	28.5	4.61	1,800	1,110	500
	6	7	3.09	0.7	1.0	1.8	31.0	3.08	1,500	1,410	500
	10	7	3.99	0.7	1.0	1.8	34.5	1.83	1,200	1,980	500
12	1.5	7	1.53	0.7	1.0	1.8	24.5	12.1	2,500	730	500
	2.5	7	1.98	0.7	1.0	1.8	26.0	7.41	2,100	900	500
	4	7	2.49	0.7	1.0	1.8	28.5	4.61	1,800	1,160	500
	6	7	3.09	0.7	1.0	1.8	31.0	3.08	1,500	1,470	500
	10	7	3.99	0.7	1.0	1.8	34.5	1.83	1,200	2,080	500
13	1.5	7	1.53	0.7	1.0	1.8	25.5	12.1	2,500	800	500
	2.5	7	1.98	0.7	1.0	1.8	27.5	7.41	2,100	980	500
	4	7	2.49	0.7	1.0	1.8	29.5	4.61	1,800	1,260	500
	6	7	3.09	0.7	1.0	1.8	32.0	3.08	1,500	1,600	500
	10	7	3.99	0.7	1.0	1.8	36.5	1.83	1,200	2,270	500
14	1.5	7	1.53	0.7	1.0	1.8	25.5	12.1	2,500	820	500
	2.5	7	1.98	0.7	1.0	1.8	27.5	7.41	2,100	1,010	500
	4	7	2.49	0.7	1.0	1.8	29.5	4.61	1,800	1,300	500
	6	7	3.09	0.7	1.0	1.8	32.0	3.08	1,500	1,660	500
	10	7	3.99	0.7	1.0	1.8	36.5	1.83	1,200	2,370	500
15	1.5	7	1.53	0.7	1.0	1.8	26.5	12.1	2,500	810	500
	2.5	7	1.98	0.7	1.0	1.8	28.5	7.41	2,100	1,010	500
	4	7	2.49	0.7	1.0	1.8	31.0	4.61	1,800	1,320	500
	6	7	3.09	0.7	1.0	1.8	34.0	3.08	1,500	1,700	500
	10	7	3.99	0.7	1.0	1.9	38.5	1.83	1,200	2,460	500

BCC
BANGKOK CABLE

0.6/1 kV FRC-XL-LSHF/LSHF-S

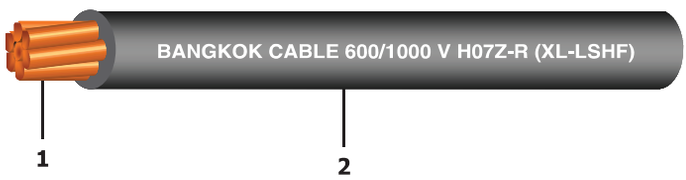
No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter								
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m
16	1.5	7	1.53	0.7	1.0	1.8	26.5	12.1	2,500	910	500
	2.5	7	1.98	0.7	1.0	1.8	28.5	7.41	2,100	1,130	500
	4	7	2.49	0.7	1.0	1.8	31.0	4.61	1,800	1,457	500
	6	7	3.09	0.7	1.0	1.8	34.0	3.08	1,500	1,870	500
	10	7	3.99	0.7	1.0	1.9	38.5	1.83	1,200	2,690	500
17	1.5	7	1.53	0.7	1.0	1.8	28.0	12.1	2,500	970	500
	2.5	7	1.98	0.7	1.0	1.8	30.0	7.41	2,100	1,210	500
	4	7	2.49	0.7	1.0	1.8	32.5	4.61	1,800	1,570	500
	6	7	3.09	0.7	1.0	1.8	35.5	3.08	1,500	2,020	500
	10	7	3.99	0.7	1.0	1.9	40.5	1.83	1,200	2,900	400
18	1.5	7	1.53	0.7	1.0	1.8	28.0	12.1	2,500	990	500
	2.5	7	1.98	0.7	1.0	1.8	30.0	7.41	2,100	1,240	500
	4	7	2.49	0.7	1.0	1.8	32.5	4.61	1,800	1,610	500
	6	7	3.09	0.7	1.0	1.8	35.5	3.08	1,500	2,080	500
	10	7	3.99	0.7	1.0	1.9	40.5	1.83	1,200	3,000	400
19	1.5	7	1.53	0.7	1.0	1.8	28.0	12.1	2,500	1,020	500
	2.5	7	1.98	0.7	1.0	1.8	30.0	7.41	2,100	1,270	500
	4	7	2.49	0.7	1.0	1.8	32.5	4.61	1,800	1,660	500
	6	7	3.09	0.7	1.0	1.8	35.5	3.08	1,500	2,140	500
	10	7	3.99	0.7	1.0	1.9	40.5	1.83	1,200	3,100	400
20	1.5	7	1.53	0.7	1.0	1.8	29.0	12.1	2,500	1,090	500
	2.5	7	1.98	0.7	1.0	1.8	31.5	7.41	2,100	1,360	500
	4	7	2.49	0.7	1.0	1.8	34.5	4.61	1,800	1,780	500
	6	7	3.09	0.7	1.0	1.9	37.5	3.08	1,500	2,310	500
	10	7	3.99	0.7	1.2	2.0	43.0	1.83	1,200	3,380	400
21	1.5	7	1.53	0.7	1.0	1.8	29.0	12.1	2,500	1,100	500
	2.5	7	1.98	0.7	1.0	1.8	31.5	7.41	2,100	1,380	500
	4	7	2.49	0.7	1.0	1.8	34.5	4.61	1,800	1,810	500
	6	7	3.09	0.7	1.0	1.9	37.5	3.08	1,500	2,360	500
	10	7	3.99	0.7	1.2	2.0	43.0	1.83	1,200	3,460	400
22	1.5	7	1.53	0.7	1.0	1.8	30.5	12.1	2,500	1,180	500
	2.5	7	1.98	0.7	1.0	1.8	33.0	7.41	2,100	1,480	500
	4	7	2.49	0.7	1.0	1.8	36.0	4.61	1,800	1,940	500
	6	7	3.09	0.7	1.0	1.9	39.5	3.08	1,500	2,530	500
	10	7	3.99	0.7	1.2	2.1	45.5	1.83	1,200	3,730	400
23	1.5	7	1.53	0.7	1.0	1.8	30.5	12.1	2,500	1,190	500
	2.5	7	1.98	0.7	1.0	1.8	33.0	7.41	2,100	1,500	500
	4	7	2.49	0.7	1.0	1.8	36.0	4.61	1,800	1,970	500
	6	7	3.09	0.7	1.0	1.9	39.5	3.08	1,500	2,560	500
	10	7	3.99	0.7	1.2	2.1	45.5	1.83	1,200	3,790	400
24	1.5	7	1.53	0.7	1.0	1.8	32.0	12.1	2,500	1,250	500
	2.5	7	1.98	0.7	1.0	1.8	34.5	7.41	2,100	1,570	500
	4	7	2.49	0.7	1.0	1.8	38.0	4.61	1,800	2,050	500
	6	7	3.09	0.7	1.2	2.0	42.0	3.08	1,500	2,740	400
	10	7	3.99	0.7	1.2	2.1	48.0	1.83	1,200	3,960	400
25	1.5	7	1.53	0.7	1.0	1.8	32.5	12.1	2,500	1,310	500
	2.5	7	1.98	0.7	1.0	1.8	35.5	7.41	2,100	1,650	500
	4	7	2.49	0.7	1.0	1.8	38.5	4.61	1,800	2,160	500
	6	7	3.09	0.7	1.2	2.0	43.0	3.08	1,500	2,880	400
	10	7	3.99	0.7	1.2	2.1	49.0	1.83	1,200	4,120	400

0.6/1 kV FRC-XL-LSHF/LSHF-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter								
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m
26	1.5	7	1.53	0.7	1.0	1.8	32.5	12.1	2,500	1,330	500
	2.5	7	1.98	0.7	1.0	1.8	35.5	7.41	2,100	1,680	500
	4	7	2.49	0.7	1.0	1.8	38.5	4.61	1,800	2,210	500
	6	7	3.09	0.7	1.2	2.0	43.0	3.08	1,500	2,940	400
	10	7	3.99	0.7	1.2	2.1	49.0	1.83	1,200	4,260	400
27	1.5	7	1.53	0.7	1.0	1.8	32.5	12.1	2,500	1,350	500
	2.5	7	1.98	0.7	1.0	1.8	35.5	7.41	2,100	1,710	500
	4	7	2.49	0.7	1.0	1.9	39.0	4.61	1,800	2,270	500
	6	7	3.09	0.7	1.2	2.0	43.0	3.08	1,500	3,010	400
	10	7	3.99	0.7	1.2	2.2	49.0	1.83	1,200	4,390	400
28	1.5	7	1.53	0.7	1.0	1.8	34.0	12.1	2,500	1,420	500
	2.5	7	1.98	0.7	1.0	1.8	36.5	7.41	2,100	1,800	500
	4	7	2.49	0.7	1.0	1.9	40.0	4.61	1,800	2,390	400
	6	7	3.09	0.7	1.2	2.0	44.5	3.08	1,500	3,160	400
	10	7	3.99	0.7	1.2	2.2	51.0	1.83	1,200	4,610	300
29	1.5	7	1.53	0.7	1.0	1.8	34.0	12.1	2,500	1,450	500
	2.5	7	1.98	0.7	1.0	1.8	36.5	7.41	2,100	1,830	500
	4	7	2.49	0.7	1.0	1.9	40.0	4.61	1,800	2,430	400
	6	7	3.09	0.7	1.2	2.0	44.5	3.08	1,500	3,220	400
	10	7	3.99	0.7	1.2	2.2	51.0	1.83	1,200	4,710	300
30	1.5	7	1.53	0.7	1.0	1.8	34.0	12.1	2,500	1,470	500
	2.5	7	1.98	0.7	1.0	1.8	36.5	7.41	2,100	1,860	500
	4	7	2.49	0.7	1.0	1.9	40.0	4.61	1,800	2,480	400
	6	7	3.09	0.7	1.2	2.0	44.5	3.08	1,500	3,290	400
	10	7	3.99	0.7	1.2	2.2	51.0	1.83	1,200	4,810	300

600/1000 V XL-LSHF (1 CORE)

LOW SMOKE & HALOGEN FREE CABLES (NON-SHEATHED)



Standards Achieved :

Construction : BS EN 50525-3-41
Flame propagation : IEC 60332-1-2
: IEC 60332-3-24 Category C
Acid gas emission : IEC 60754-1
: IEC 60754-2
Smoke emission : IEC 61034-2

Construction :

1. Conductor : Concentric stranded or Compacted stranded copper wires
2. Insulation : Cross-linked low smoke & halogen free compound (XL-LSHF), Black colour or requested colour

Classification :

Maximum conductor temperature : 90°C
Maximum circuit voltage : 1,000 V
AC test voltage : 3,500 V

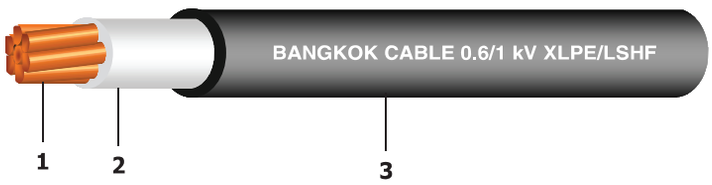
Application :

Preferably used for installation into trunking and conduit which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Overall diameter		Conductor resistance at 20°C	Insulation resistance at 90°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter		Lower limit	Upper limit					
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm	mm	Ω/km (Max.)	MΩ.km (Min.)	A	kg/km (Approx.)	m
1	1.5	7	1.53	0.7	2.7	3.4	12.1	0.010	24	20	500
1	2.5	7	1.98	0.8	3.3	4.1	7.41	0.009	33	30	500
1	4	7	2.49	0.8	3.8	4.7	4.61	0.0077	45	50	500
1	6	7	3.09	0.8	4.3	5.4	3.08	0.0065	57	70	500
1	10	6	3.72	1.0	5.6	7.0	1.83	0.0065	79	110	500
1	16	6	4.69	1.0	6.4	8.0	1.15	0.0050	105	170	500
1	25	6	5.90	1.2	8.1	10.1	0.727	0.0050	140	260	500
1	35	6	6.95	1.2	9.0	11.3	0.524	0.0043	175	350	500
1	50	6	8.33	1.4	10.6	13.2	0.387	0.0043	215	480	500
1	70	12	9.73	1.4	12.1	15.1	0.268	0.0035	275	670	500
1	95	15	11.43	1.6	14.1	17.6	0.193	0.0035	340	930	500
1	120	18	12.95	1.6	15.6	19.4	0.153	0.0032	400	1,170	500
1	150	18	14.27	1.8	17.3	21.6	0.124	0.0032	460	1,440	500
1	185	30	15.98	2.0	19.3	24.1	0.0991	0.0032	530	1,800	500
1	240	34	18.47	2.2	22.0	27.5	0.0754	0.0032	640	2,360	500
1	300	34	20.68	2.4	24.5	30.6	0.0601	0.0030	745	2,950	500
1	400	53	23.39	2.6	27.5	34.3	0.0470	0.0028	870	3,770	500

0.6/1 kV XLPE/LSHF (1 CORE)

LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Insulation	: Cross-linked polyethylene (XLPE), Natural colour
3. Sheath	: Low smoke & halogen free compound (LSHF), Black colour, or requested colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

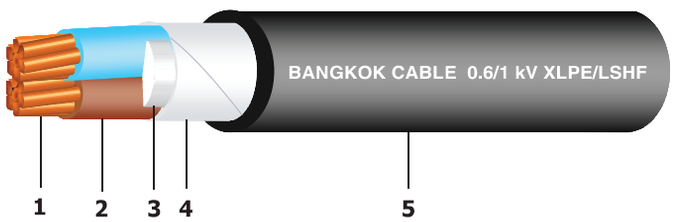
Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
1	1.5	7	1.53	0.7	1.4	6.5	12.1	27	50	500
1	2.5	7	1.98	0.7	1.4	7.0	7.41	38	60	500
1	4	7	2.49	0.7	1.4	7.5	4.61	51	80	500
1	6	7	3.09	0.7	1.4	8.0	3.08	66	110	500
1	10	6	3.72	0.7	1.4	9.0	1.83	92	150	500
1	16	6	4.69	0.7	1.4	9.5	1.15	124	210	500
1	25	6	5.90	0.9	1.4	11.5	0.727	166	310	500
1	35	6	6.95	0.9	1.4	12.5	0.524	206	410	500
1	50	6	8.33	1.0	1.4	14.0	0.387	259	550	500
1	70	12	9.73	1.1	1.4	15.5	0.268	321	750	500
1	95	15	11.43	1.1	1.5	17.5	0.193	391	1,020	500
1	120	18	12.95	1.2	1.5	19.5	0.153	455	1,270	500
1	150	18	14.27	1.4	1.6	21.5	0.124	525	1,560	500
1	185	30	15.98	1.6	1.6	23.5	0.0991	602	1,940	500
1	240	34	18.47	1.7	1.7	26.5	0.0754	711	2,520	500
1	300	34	20.68	1.8	1.8	29.0	0.0601	821	3,130	500
1	400	53	23.39	2.0	1.9	32.5	0.0470	988	3,980	500

0.6/1 kV XLPE/LSHF (2 CORES)

LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Insulation	: Cross-linked polyethylene (XLPE) Blue, Brown colour or requested colour
3. Filler	: LSHF rod and/or FR-filler yarn
4. Binding tape	: Polyester tape
5. Sheath	: Low smoke & halogen free compound (LSHF), Black colour, or requested colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

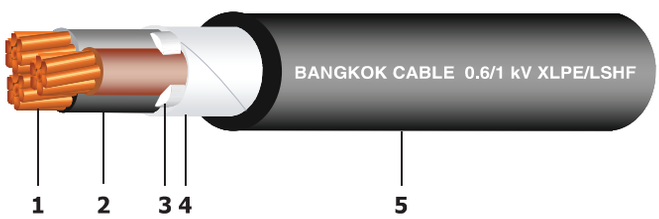
Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2		mm	mm	mm	mm	Ω/km	A	kg/km	m
		(Min.)	(Approx.)	(Nominal)	(Nominal)	(Approx.)	(Max.)		(Approx.)	
2	1.5	7	1.53	0.7	1.8	11.0	12.1	24	120	500
2	2.5	7	1.98	0.7	1.8	11.5	7.41	33	160	500
2	4	7	2.49	0.7	1.8	12.5	4.61	44	200	500
2	6	7	3.09	0.7	1.8	14.0	3.08	57	260	500
2	10	6	3.72	0.7	1.8	15.0	1.83	78	360	500
2	16	6	4.69	0.7	1.8	17.0	1.15	105	510	500
2	25	6	5.90	0.9	1.8	20.5	0.727	135	760	500
2	35	6	6.95	0.9	1.8	22.5	0.524	168	1,000	500
2	50	6	8.33	1.0	1.8	26.0	0.387	212	1,330	500
2	70	12	9.73	1.1	1.8	29.5	0.268	263	1,820	500
2	95	15	11.43	1.1	1.9	33.0	0.193	321	2,440	500
2	120	18	12.95	1.2	2.0	36.5	0.153	373	3,060	500
2	150	18	14.27	1.4	2.1	40.5	0.124	431	3,750	500
2	185	30	15.98	1.6	2.3	45.0	0.0991	493	4,700	400
2	240	34	18.47	1.7	2.5	51.0	0.0754	584	6,110	300
2	300	34	20.68	1.8	2.6	56.0	0.0601	674	7,550	250
2	400	53	23.39	2.0	2.9	63.5	0.0470	812	9,630	200

0.6/1 kV XLPE/LSHF (3 CORES)

LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Insulation	: Cross-linked polyethylene (XLPE) Brown, Black, Grey colour or requested colour
3. Filler	: LSHF rod and/or FR-filler yarn
4. Binding tape	: Polyester tape
5. Sheath	: Low smoke & halogen free compound (LSHF), Black colour, or requested colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

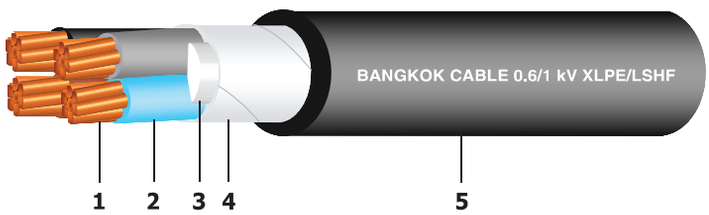
Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
3	1.5	7	1.53	0.7	1.8	11.5	12.1	21	140	500
3	2.5	7	1.98	0.7	1.8	12.0	7.41	29	190	500
3	4	7	2.49	0.7	1.8	13.5	4.61	38	250	500
3	6	7	3.09	0.7	1.8	14.5	3.08	49	330	500
3	10	6	3.72	0.7	1.8	16.0	1.83	68	470	500
3	16	6	4.69	0.7	1.8	18.0	1.15	91	670	500
3	25	6	5.90	0.9	1.8	21.5	0.727	116	1,020	500
3	35	6	6.95	0.9	1.8	24.0	0.524	144	1,350	500
3	50	6	8.33	1.0	1.8	27.5	0.387	180	1,800	500
3	70	12	9.73	1.1	1.9	31.5	0.268	224	2,500	500
3	95	15	11.43	1.1	2.0	35.5	0.193	271	3,370	500
3	120	18	12.95	1.2	2.1	39.5	0.153	315	4,220	500
3	150	18	14.27	1.4	2.2	43.5	0.124	363	5,190	400
3	185	30	15.98	1.6	2.4	48.5	0.0991	415	6,490	400
3	240	34	18.47	1.7	2.6	55.0	0.0754	490	8,440	300
3	300	34	20.68	1.8	2.7	60.5	0.0601	565	10,470	250
3	400	53	23.39	2.0	3.0	68.0	0.0470	678	13,350	200

0.6/1 kV XLPE/LSHF (4 CORES)

LOW SMOKE & HALOGEN FREE CABLES



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Insulation	: Cross-linked polyethylene (XLPE)
	Blue, Brown, Black, Grey colour or requested colour
3. Filler	: LSHF rod and/or FR-filler yarn
4. Binding tape	: Polyester tape
5. Sheath	: Low smoke & halogen free compound (LSHF), Black colour,
	or requested colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

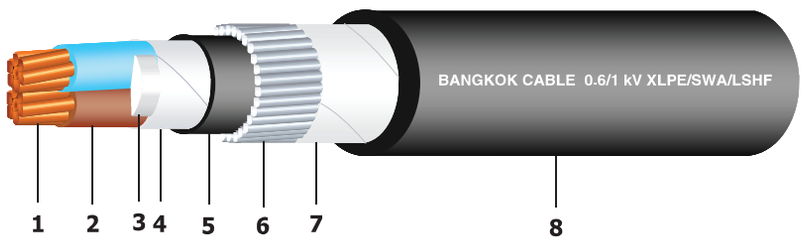
Application :

Preferably used for installation into conduit and surface wiring which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter							
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
4	1.5	7	1.53	0.7	1.8	12.0	12.1	21	170	500
4	2.5	7	1.98	0.7	1.8	13.0	7.41	29	230	500
4	4	7	2.49	0.7	1.8	14.5	4.61	38	300	500
4	6	7	3.09	0.7	1.8	16.0	3.08	49	410	500
4	10	6	3.72	0.7	1.8	17.5	1.83	68	590	500
4	16	6	4.69	0.7	1.8	19.5	1.15	91	860	500
4	25	6	5.90	0.9	1.8	24.0	0.727	116	1,300	500
4	35	6	6.95	0.9	1.8	26.5	0.524	144	1,740	500
4	50	6	8.33	1.0	1.8	30.5	0.387	180	2,320	500
4	70	12	9.73	1.1	2.0	35.0	0.268	224	3,250	500
4	95	15	11.43	1.1	2.1	39.0	0.193	271	4,390	500
4	120	18	12.95	1.2	2.3	44.0	0.153	315	5,520	400
4	150	18	14.27	1.4	2.4	48.5	0.124	363	6,780	400
4	185	30	15.98	1.6	2.6	54.0	0.0991	415	8,480	300
4	240	34	18.47	1.7	2.8	61.0	0.0754	490	11,040	200
4	300	34	20.68	1.8	3.0	67.5	0.0601	565	13,720	150
4	400	53	23.39	2.0	3.3	76.0	0.0470	678	17,490	150

0.6/1 kV XLPE/SWA/LSHF (2 CORES)

LOW SMOKE & HALOGEN FREE CABLES WITH ARMOUR



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Insulation	: Cross-linked polyethylene (XLPE) Blue, Brown colour or requested colour
3. Filler	: LSHF rod and/or FR-filler yarn
4. Binding tape	: Polyester tape
5. Inner sheath	: Low smoke & halogen free compound (LSHF), Black colour
6. Armour	: Galvanized steel wires
7. Binding tape	: Polyester tape
8. Outer sheath	: Low smoke & halogen free compound (LSHF), Black colour, or requested colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

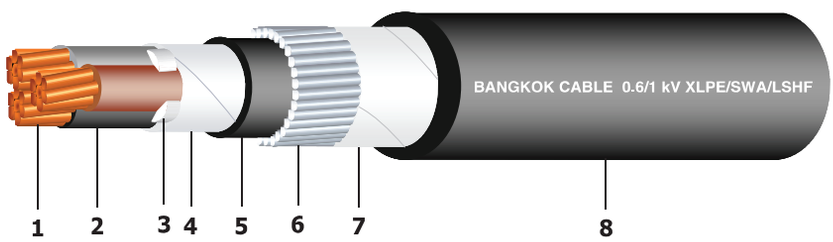
Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter of wire armour	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter									
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
2	1.5	7	1.53	0.7	1.0	0.8	1.8	15.0	12.1	26	340	500
2	2.5	7	1.98	0.7	1.0	0.8	1.8	15.5	7.41	35	390	500
2	4	7	2.49	0.7	1.0	1.25	1.8	17.5	4.61	46	560	500
2	6	7	3.09	0.7	1.0	1.25	1.8	19.0	3.08	59	660	500
2	10	6	3.72	0.7	1.0	1.25	1.8	20.0	1.83	80	800	500
2	16	6	4.69	0.7	1.0	1.25	1.8	22.0	1.15	105	1,000	500
2	25	6	5.90	0.9	1.0	1.6	1.8	26.5	0.727	140	1,520	500
2	35	6	6.95	0.9	1.0	1.6	1.8	28.5	0.524	170	1,830	500
2	50	6	8.33	1.0	1.0	1.6	1.9	32.0	0.387	210	2,310	500
2	70	12	9.73	1.1	1.0	2.0	2.1	36.5	0.268	260	3,180	500
2	95	15	11.43	1.1	1.2	2.0	2.2	40.5	0.193	320	4,020	500
2	120	18	12.95	1.2	1.2	2.0	2.3	44.5	0.153	370	4,820	400
2	150	18	14.27	1.4	1.2	2.5	2.4	49.5	0.124	420	6,110	400
2	185	30	15.98	1.6	1.4	2.5	2.6	54.5	0.0991	480	7,390	300
2	240	34	18.47	1.7	1.4	2.5	2.8	60.5	0.0754	560	9,090	250
2	300	34	20.68	1.8	1.6	2.5	2.9	66.0	0.0601	635	10,930	150
2	400	53	23.39	2.0	1.6	2.5	3.2	73.0	0.0470	725	13,400	100

0.6/1 kV XLPE/SWA/LSHF (3 CORES)

LOW SMOKE & HALOGEN FREE CABLES WITH ARMOUR



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Insulation	: Cross-linked polyethylene (XLPE) Brown, Black, Grey colour or requested colour
3. Filler	: LSHF rod and/or FR-filler yarn
4. Binding tape	: Polyester tape
5. Inner sheath	: Low smoke & halogen free compound (LSHF), Black colour
6. Armour	: Galvanized steel wires
7. Binding tape	: Polyester tape
8. Outer sheath	: Low smoke & halogen free compound (LSHF), Black colour, or requested colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

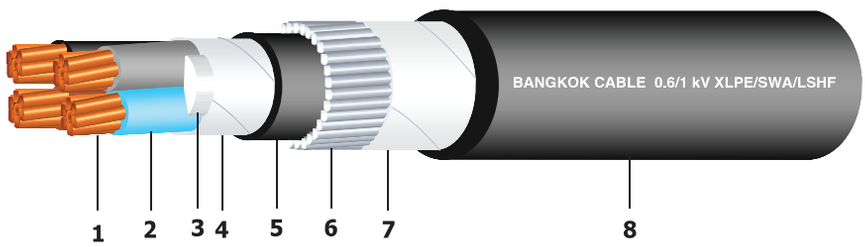
Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter of wire armour	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter									
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
3	1.5	7	1.53	0.7	1.0	0.8	1.8	15.5	12.1	22	370	500
3	2.5	7	1.98	0.7	1.0	0.8	1.8	16.5	7.41	29	440	500
3	4	7	2.49	0.7	1.0	1.25	1.8	18.5	4.61	39	630	500
3	6	7	3.09	0.7	1.0	1.25	1.8	19.5	3.08	50	750	500
3	10	6	3.72	0.7	1.0	1.25	1.8	21.0	1.83	67	930	500
3	16	6	4.69	0.7	1.0	1.6	1.8	23.5	1.15	89	1,320	500
3	25	6	5.90	0.9	1.0	1.6	1.8	27.5	0.727	120	1,810	500
3	35	6	6.95	0.9	1.0	1.6	1.9	30.0	0.524	145	2,250	500
3	50	6	8.33	1.0	1.0	1.6	2.0	34.0	0.387	175	2,850	500
3	70	12	9.73	1.1	1.2	2.0	2.1	39.0	0.268	220	3,990	500
3	95	15	11.43	1.1	1.2	2.0	2.2	43.0	0.193	275	5,050	400
3	120	18	12.95	1.2	1.2	2.5	2.4	48.0	0.153	315	6,490	400
3	150	18	14.27	1.4	1.4	2.5	2.5	52.5	0.124	360	7,780	300
3	185	30	15.98	1.6	1.4	2.5	2.7	58.0	0.0991	410	9,370	250
3	240	34	18.47	1.7	1.6	2.5	2.9	64.5	0.0754	480	11,770	200
3	300	34	20.68	1.8	1.6	2.5	3.1	70.5	0.0601	550	14,120	150
3	400	53	23.39	2.0	1.6	3.15	3.4	79.5	0.0470	625	18,330	100

0.6/1 kV XLPE/SWA/LSHF (4 CORES)

LOW SMOKE & HALOGEN FREE CABLES WITH ARMOUR



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3-24 Category C
	: IEC 60332-3-22 Category A
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded or Compacted stranded copper wires
2. Insulation	: Cross-linked polyethylene (XLPE) Blue, Brown, Black, Grey colour or requested colour
3. Filler	: LSHF rod and/or FR-filler yarn
4. Binding tape	: Polyester tape
5. Inner sheath	: Low smoke & halogen free compound (LSHF), Black colour
6. Armour	: Galvanized steel wires
7. Binding tape	: Polyester tape
8. Outer sheath	: Low smoke & halogen free compound (LSHF), Black colour, or requested colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

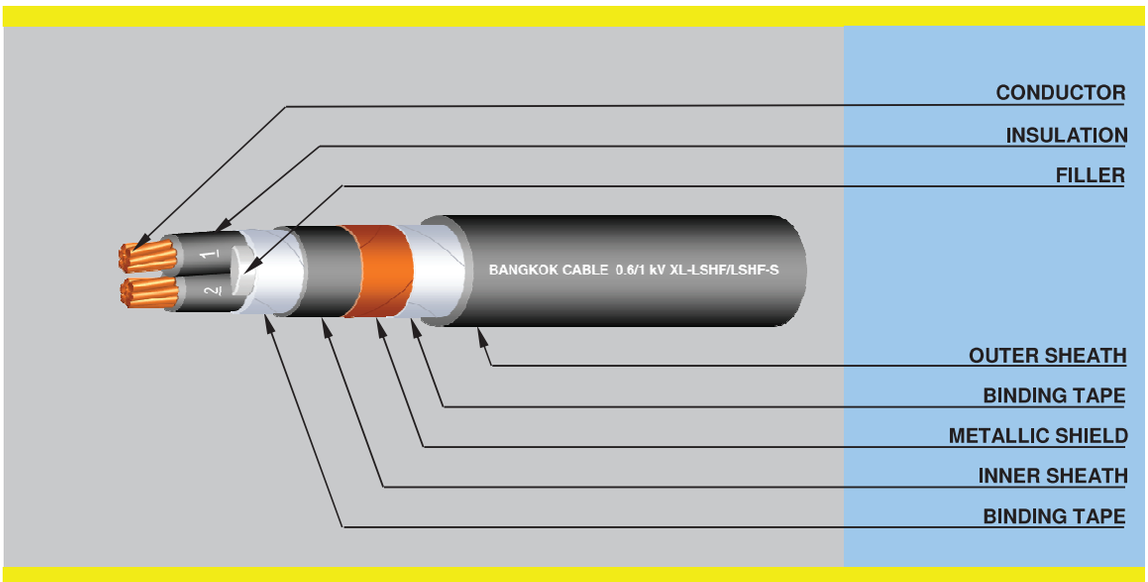
Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Diameter of wire armour	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Current rating in free air at 40°C ambient	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter									
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	A	kg/km (Approx.)	m
4	1.5	7	1.53	0.7	1.0	0.8	1.8	16.0	12.1	22	420	500
4	2.5	7	1.98	0.7	1.0	1.25	1.8	18.0	7.41	29	610	500
4	4	7	2.49	0.7	1.0	1.25	1.8	19.5	4.61	39	720	500
4	6	7	3.09	0.7	1.0	1.25	1.8	21.0	3.08	50	870	500
4	10	6	3.72	0.7	1.0	1.25	1.8	22.5	1.83	67	1,090	500
4	16	6	4.69	0.7	1.0	1.6	1.8	25.5	1.15	89	1,570	500
4	25	6	5.90	0.9	1.0	1.6	1.8	29.5	0.727	120	2,170	500
4	35	6	6.95	0.9	1.0	1.6	1.9	32.5	0.524	145	2,740	500
4	50	6	8.33	1.0	1.0	2.0	2.1	38.0	0.387	175	3,740	500
4	70	12	9.73	1.1	1.2	2.0	2.2	42.5	0.268	220	4,900	400
4	95	15	11.43	1.1	1.2	2.5	2.4	48.0	0.193	275	6,660	400
4	120	18	12.95	1.2	1.4	2.5	2.6	53.0	0.153	315	8,120	300
4	150	18	14.27	1.4	1.4	2.5	2.7	58.0	0.124	360	9,620	250
4	185	30	15.98	1.6	1.6	2.5	2.9	64.0	0.0991	410	11,750	200
4	240	34	18.47	1.7	1.6	2.5	3.1	71.0	0.0754	480	14,710	100
4	300	34	20.68	1.8	1.6	3.15	3.3	78.5	0.0601	550	18,660	100
4	400	53	23.39	2.0	1.8	3.15	3.6	87.5	0.0470	625	23,100	100

0.6/1 kV XL-LSHF/LSHF-S

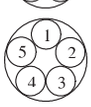
LOW SMOKE & HALOGEN FREE CONTROL CABLES

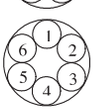


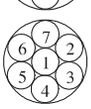

2 Cores

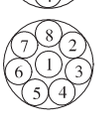

3 Cores

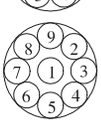

4 Cores

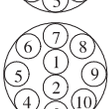

5 Cores

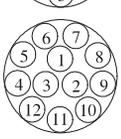

6 Cores

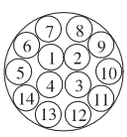

7 Cores

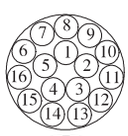

8 Cores

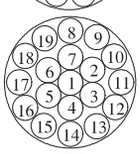

9 Cores

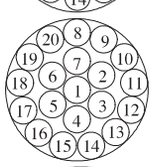

10 Cores

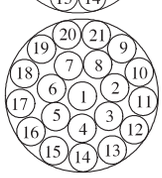

12 Cores

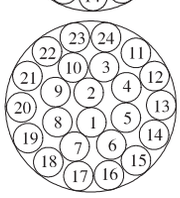

14 Cores

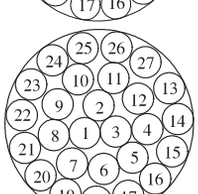

16 Cores

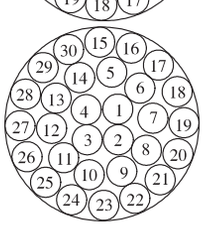

19 Cores


20 Cores


21 Cores

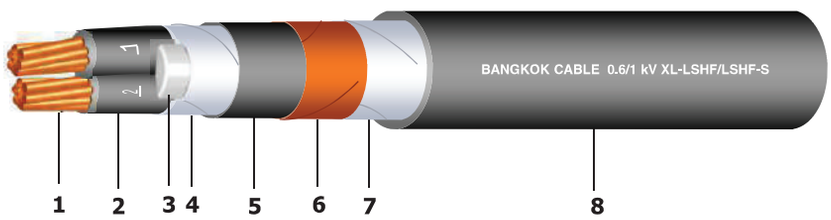

24 Cores


27 Cores


30 Cores

0.6/1 kV XL-LSHF/LSHF-S

LOW SMOKE & HALOGEN FREE CONTROL CABLES WITH METALLIC SHIELD



Standards Achieved :

Construction	: IEC 60228, IEC 60502-1
Flame propagation	: IEC 60332-1-2
	: IEC 60332-3 Categories A, B, C
Acid gas emission	: IEC 60754-1
	: IEC 60754-2
Smoke emission	: IEC 61034-2

Construction :

1. Conductor	: Concentric stranded copper wires
2. Insulation	: Cross-linked low smoke & halogen free compound (XL-LSHF), Black colour with marking number
3. Filler	: LSHF rod and/or FR-filler yarn
4. Binding tape	: Polyester tape
5. Inner sheath	: Low smoke & halogen free compound (LSHF), Black colour
6. Metallic shield	: Annealed copper tape
7. Binding tape	: Polyester tape
8. Outer sheath	: Low smoke & halogen free compound (LSHF), Black colour, or any colour

Classification :

Maximum conductor temperature	: 90°C
Maximum circuit voltage	: 1,000 V
AC test voltage	: 3,500 V

Application :

Preferably used for installation into conduit and open tray wiring which provide flame retardant, low smoke & corrosive gases properties in case of fire.

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter								
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m
2	1.5	7	1.53	0.7	1.0	1.8	13.0	12.1	2,500	220	500
	2.5	7	1.98	0.7	1.0	1.8	14.0	7.41	2,100	260	500
	4	7	2.49	0.7	1.0	1.8	15.0	4.61	1,800	320	500
	6	7	3.09	0.7	1.0	1.8	16.5	3.08	1,500	390	500
	10	7	3.99	0.7	1.0	1.8	18.0	1.83	1,200	520	500
3	1.5	7	1.53	0.7	1.0	1.8	13.5	12.1	2,500	250	500
	2.5	7	1.98	0.7	1.0	1.8	14.5	7.41	2,100	300	500
	4	7	2.49	0.7	1.0	1.8	16.0	4.61	1,800	370	500
	6	7	3.09	0.7	1.0	1.8	17.0	3.08	1,500	470	500
	10	7	3.99	0.7	1.0	1.8	19.0	1.83	1,200	640	500
4	1.5	7	1.53	0.7	1.0	1.8	14.5	12.1	2,500	280	500
	2.5	7	1.98	0.7	1.0	1.8	15.5	7.41	2,100	350	500
	4	7	2.49	0.7	1.0	1.8	17.0	4.61	1,800	440	500
	6	7	3.09	0.7	1.0	1.8	18.5	3.08	1,500	560	500
	10	7	3.99	0.7	1.0	1.8	20.5	1.83	1,200	780	500
5	1.5	7	1.53	0.7	1.0	1.8	15.5	12.1	2,500	330	500
	2.5	7	1.98	0.7	1.0	1.8	16.5	7.41	2,100	410	500
	4	7	2.49	0.7	1.0	1.8	18.0	4.61	1,800	520	500
	6	7	3.09	0.7	1.0	1.8	19.5	3.08	1,500	680	500
	10	7	3.99	0.7	1.0	1.8	22.0	1.83	1,200	950	500

0.6/1 kV XL-LSHF/LSHF-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter								
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m
6	1.5	7	1.53	0.7	1.0	1.8	16.5	12.1	2,500	360	500
	2.5	7	1.98	0.7	1.0	1.8	17.5	7.41	2,100	450	500
	4	7	2.49	0.7	1.0	1.8	19.0	4.61	1,800	580	500
	6	7	3.09	0.7	1.0	1.8	21.0	3.08	1,500	750	500
	10	7	3.99	0.7	1.0	1.8	23.5	1.83	1,200	1,060	500
7	1.5	7	1.53	0.7	1.0	1.8	16.5	12.1	2,500	370	500
	2.5	7	1.98	0.7	1.0	1.8	17.5	7.41	2,100	470	500
	4	7	2.49	0.7	1.0	1.8	19.0	4.61	1,800	610	500
	6	7	3.09	0.7	1.0	1.8	21.0	3.08	1,500	800	500
	10	7	3.99	0.7	1.0	1.8	23.5	1.83	1,200	1,140	500
8	1.5	7	1.53	0.7	1.0	1.8	17.0	12.1	2,500	410	500
	2.5	7	1.98	0.7	1.0	1.8	18.5	7.41	2,100	520	500
	4	7	2.49	0.7	1.0	1.8	20.5	4.61	1,800	680	500
	6	7	3.09	0.7	1.0	1.8	22.5	3.08	1,500	890	500
	10	7	3.99	0.7	1.0	1.8	25.5	1.83	1,200	1,290	500
9	1.5	7	1.53	0.7	1.0	1.8	18.0	12.1	2,500	450	500
	2.5	7	1.98	0.7	1.0	1.8	20.0	7.41	2,100	580	500
	4	7	2.49	0.7	1.0	1.8	21.5	4.61	1,800	750	500
	6	7	3.09	0.7	1.0	1.8	24.0	3.08	1,500	1,000	500
	10	7	3.99	0.7	1.0	1.8	27.0	1.83	1,200	1,440	500
10	1.5	7	1.53	0.7	1.0	1.8	19.5	12.1	2,500	490	500
	2.5	7	1.98	0.7	1.0	1.8	21.0	7.41	2,100	630	500
	4	7	2.49	0.7	1.0	1.8	23.0	4.61	1,800	820	500
	6	7	3.09	0.7	1.0	1.8	25.5	3.08	1,500	1,090	500
	10	7	3.99	0.7	1.0	1.8	29.0	1.83	1,200	1,580	500
11	1.5	7	1.53	0.7	1.0	1.8	20.0	12.1	2,500	530	500
	2.5	7	1.98	0.7	1.0	1.8	21.5	7.41	2,100	690	500
	4	7	2.49	0.7	1.0	1.8	24.0	4.61	1,800	900	500
	6	7	3.09	0.7	1.0	1.8	26.5	3.08	1,500	1,200	500
	10	7	3.99	0.7	1.0	1.8	30.0	1.83	1,200	1,740	500
12	1.5	7	1.53	0.7	1.0	1.8	20.0	12.1	2,500	540	500
	2.5	7	1.98	0.7	1.0	1.8	21.5	7.41	2,100	710	500
	4	7	2.49	0.7	1.0	1.8	24.0	4.61	1,800	930	500
	6	7	3.09	0.7	1.0	1.8	26.5	3.08	1,500	1,250	500
	10	7	3.99	0.7	1.0	1.8	30.0	1.83	1,200	1,820	500
13	1.5	7	1.53	0.7	1.0	1.8	20.5	12.1	2,500	590	500
	2.5	7	1.98	0.7	1.0	1.8	22.5	7.41	2,100	770	500
	4	7	2.49	0.7	1.0	1.8	25.0	4.61	1,800	1,020	500
	6	7	3.09	0.7	1.0	1.8	27.5	3.08	1,500	1,360	500
	10	7	3.99	0.7	1.0	1.8	31.5	1.83	1,200	1,990	500
14	1.5	7	1.53	0.7	1.0	1.8	20.5	12.1	2,500	600	500
	2.5	7	1.98	0.7	1.0	1.8	22.5	7.41	2,100	790	500
	4	7	2.49	0.7	1.0	1.8	25.0	4.61	1,800	1,050	500
	6	7	3.09	0.7	1.0	1.8	27.5	3.08	1,500	1,410	500
	10	7	3.99	0.7	1.0	1.8	31.5	1.83	1,200	2,070	500
15	1.5	7	1.53	0.7	1.0	1.8	21.5	12.1	2,500	650	500
	2.5	7	1.98	0.7	1.0	1.8	23.5	7.41	2,100	860	500
	4	7	2.49	0.7	1.0	1.8	26.0	4.61	1,800	1,140	500
	6	7	3.09	0.7	1.0	1.8	29.0	3.08	1,500	1,540	500
	10	7	3.99	0.7	1.0	1.9	33.5	1.83	1,200	2,280	500

0.6/1 kV XL-LSHF/LSHF-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter								
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m
16	1.5	7	1.53	0.7	1.0	1.8	21.5	12.1	2,500	660	500
	2.5	7	1.98	0.7	1.0	1.8	23.5	7.41	2,100	880	500
	4	7	2.49	0.7	1.0	1.8	26.0	4.61	1,800	1,170	500
	6	7	3.09	0.7	1.0	1.8	29.0	3.08	1,500	1,590	500
	10	7	3.99	0.7	1.0	1.9	33.5	1.83	1,200	2,360	500
17	1.5	7	1.53	0.7	1.0	1.8	22.5	12.1	2,500	720	500
	2.5	7	1.98	0.7	1.0	1.8	24.5	7.41	2,100	950	500
	4	7	2.49	0.7	1.0	1.8	27.0	4.61	1,800	1,270	500
	6	7	3.09	0.7	1.0	1.8	30.0	3.08	1,500	1,720	500
	10	7	3.99	0.7	1.0	1.9	35.0	1.83	1,200	2,560	500
18	1.5	7	1.53	0.7	1.0	1.8	22.5	12.1	2,500	730	500
	2.5	7	1.98	0.7	1.0	1.8	24.5	7.41	2,100	970	500
	4	7	2.49	0.7	1.0	1.8	27.0	4.61	1,800	1,300	500
	6	7	3.09	0.7	1.0	1.8	30.0	3.08	1,500	1,770	500
	10	7	3.99	0.7	1.0	1.9	35.0	1.83	1,200	2,640	500
19	1.5	7	1.53	0.7	1.0	1.8	22.5	12.1	2,500	740	500
	2.5	7	1.98	0.7	1.0	1.8	24.5	7.41	2,100	990	500
	4	7	2.49	0.7	1.0	1.8	27.0	4.61	1,800	1,330	500
	6	7	3.09	0.7	1.0	1.8	30.0	3.08	1,500	1,810	500
	10	7	3.99	0.7	1.0	1.9	35.0	1.83	1,200	2,710	500
20	1.5	7	1.53	0.7	1.0	1.8	23.5	12.1	2,500	790	500
	2.5	7	1.98	0.7	1.0	1.8	25.5	7.41	2,100	1,070	500
	4	7	2.49	0.7	1.0	1.8	28.5	4.61	1,800	1,440	500
	6	7	3.09	0.7	1.0	1.9	32.0	3.08	1,500	1,970	500
	10	7	3.99	0.7	1.2	2.0	37.5	1.83	1,200	2,970	500
21	1.5	7	1.53	0.7	1.0	1.8	23.5	12.1	2,500	800	500
	2.5	7	1.98	0.7	1.0	1.8	25.5	7.41	2,100	1,080	500
	4	7	2.49	0.7	1.0	1.8	28.5	4.61	1,800	1,450	500
	6	7	3.09	0.7	1.0	1.9	32.0	3.08	1,500	2,000	500
	10	7	3.99	0.7	1.2	2.0	37.5	1.83	1,200	3,030	500
22	1.5	7	1.53	0.7	1.0	1.8	24.5	12.1	2,500	860	500
	2.5	7	1.98	0.7	1.0	1.8	27.0	7.41	2,100	1,170	500
	4	7	2.49	0.7	1.0	1.8	29.5	4.61	1,800	1,570	500
	6	7	3.09	0.7	1.0	1.9	33.5	3.08	1,500	2,160	500
	10	7	3.99	0.7	1.2	2.1	39.0	1.83	1,200	3,290	500
23	1.5	7	1.53	0.7	1.0	1.8	24.5	12.1	2,500	860	500
	2.5	7	1.98	0.7	1.0	1.8	27.0	7.41	2,100	1,160	500
	4	7	2.49	0.7	1.0	1.8	29.5	4.61	1,800	1,580	500
	6	7	3.09	0.7	1.0	1.9	33.5	3.08	1,500	2,180	500
	10	7	3.99	0.7	1.2	2.1	39.0	1.83	1,200	3,320	500
24	1.5	7	1.53	0.7	1.0	1.8	25.5	12.1	2,500	900	500
	2.5	7	1.98	0.7	1.0	1.8	28.0	7.41	2,100	1,220	500
	4	7	2.49	0.7	1.0	1.8	31.0	4.61	1,800	1,650	500
	6	7	3.09	0.7	1.2	2.0	35.5	3.08	1,500	2,320	500
	10	7	3.99	0.7	1.2	2.1	41.5	1.83	1,200	3,460	400
25	1.5	7	1.53	0.7	1.0	1.8	26.0	12.1	2,500	950	500
	2.5	7	1.98	0.7	1.0	1.8	28.5	7.41	2,100	1,290	500
	4	7	2.49	0.7	1.0	1.8	32.0	4.61	1,800	1,750	500
	6	7	3.09	0.7	1.2	2.0	36.5	3.08	1,500	2,460	500
	10	7	3.99	0.7	1.2	2.1	42.0	1.83	1,200	3,660	400

0.6/1 kV XL-LSHF/LSHF-S

No. of core	Conductor			Thickness of insulation	Thickness of inner sheath	Thickness of outer sheath	Overall diameter	Conductor resistance at 20°C	Insulation resistance at 20°C	Cable weight	Standard length
	Cross-sectional area	No. of wires	Diameter								
	mm^2	(Min.)	mm (Approx.)	mm (Nominal)	mm (Approx.)	mm (Nominal)	mm (Approx.)	Ω/km (Max.)	MΩ.km (Min.)	kg/km (Approx.)	m
26	1.5	7	1.53	0.7	1.0	1.8	26.0	12.1	2,500	960	500
	2.5	7	1.98	0.7	1.0	1.8	28.5	7.41	2,100	1,310	500
	4	7	2.49	0.7	1.0	1.8	32.0	4.61	1,800	1,770	500
	6	7	3.09	0.7	1.2	2.0	36.5	3.08	1,500	2,500	500
	10	7	3.99	0.7	1.2	2.1	42.0	1.83	1,200	3,740	400
27	1.5	7	1.53	0.7	1.0	1.8	26.0	12.1	2,500	970	500
	2.5	7	1.98	0.7	1.0	1.8	28.5	7.41	2,100	1,320	500
	4	7	2.49	0.7	1.0	1.9	32.0	4.61	1,800	1,820	500
	6	7	3.09	0.7	1.2	2.0	36.5	3.08	1,500	2,550	500
	10	7	3.99	0.7	1.2	2.2	42.5	1.83	1,200	3,840	400
28	1.5	7	1.53	0.7	1.0	1.8	27.0	12.1	2,500	1,030	500
	2.5	7	1.98	0.7	1.0	1.8	29.5	7.41	2,100	1,400	500
	4	7	2.49	0.7	1.0	1.9	33.0	4.61	1,800	1,930	500
	6	7	3.09	0.7	1.2	2.0	37.5	3.08	1,500	2,700	500
	10	7	3.99	0.7	1.2	2.2	44.0	1.83	1,200	4,060	400
29	1.5	7	1.53	0.7	1.0	1.8	27.0	12.1	2,500	1,040	500
	2.5	7	1.98	0.7	1.0	1.8	29.5	7.41	2,100	1,420	500
	4	7	2.49	0.7	1.0	1.9	33.0	4.61	1,800	1,960	500
	6	7	3.09	0.7	1.2	2.0	37.5	3.08	1,500	2,740	500
	10	7	3.99	0.7	1.2	2.2	44.0	1.83	1,200	4,130	400
30	1.5	7	1.53	0.7	1.0	1.8	27.0	12.1	2,500	1,050	500
	2.5	7	1.98	0.7	1.0	1.8	29.5	7.41	2,100	1,440	500
	4	7	2.49	0.7	1.0	1.9	33.0	4.61	1,800	1,980	500
	6	7	3.09	0.7	1.2	2.0	37.5	3.08	1,500	2,790	500
	10	7	3.99	0.7	1.2	2.2	44.0	1.83	1,200	4,210	400

Certification



FRC

LSHF



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Product Service

C E R T I F I C A T E

No. B 081496 0024 Rev. 00

Holder of Certificate: **Bangkok Cable Co., Ltd.**
93 Moo 11 Suksawat Rd.
Nai Khlong Bang Pla Kot, Phra Samut Chedi
Samut Prakan 10290
THAILAND

Certification Mark:

Product: **Fire Resistant Cables**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191254520-EEC21/01-TR

Valid until: 2022-12-20

Date, 2021-04-26

(WEI LIANG TAN)

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Product Service

C E R T I F I C A T E

No. B 081496 0024 Rev. 00

Model(s): **FRC-XL-LSHF**

Brand Name: **BANGKOK CABLE**

Parameters:

Type	: CU/MICA/XL-LSHF Cable
Size	: 1C x 1.5mm^2 to 1C x 400mm^2
Voltage	: 600/1000V
Conductor	: Stranded circular plain copper wires (class 2)
Fire-barrier type	: Mica tape
Insulation	: XL-LSHF

Test report number(s)	Test Standard(s)
7191033333-EEC12/01-05	*BS 6387:1994
7191033333-EEC12/01-06	*BS 6387:1994
7191033333-EEC12/01-07	*BS 6387:1994
7191033333-EEC12/01-08	*BS 6387:1994
7191078572-EEC14/01	*BS 6387:1994
7191033333-EEC12/01-09	IEC 60332-3-24:2000/AMD1:2008
7191033333-EEC12/01-10	IEC 60332-3-24:2000/AMD1:2008
7191033333-EEC12/01-11	IEC 60332-1-2:2004
7191033333-EEC12/01-12	IEC 60332-1-2:2004
7191033333-EEC12/01-13	IEC 61034-2:2005
7191033333-EEC12/01-14	IEC 61034-2:2005
7191033333-EEC12/01-15	IEC 60754-2:2011
7191033333-EEC12/01-16	IEC 60331-21:1999
7191033333-EEC12/01-17	IEC 60331-21:1999
7191125763-EEC15/01	IEC 60754-1:2011

*The scope of BS 6387:1994 does not cover cables having one insulated conductor without metallic element. Tests were conducted by adopting the test methods specified as requested by the client. BS 6387:1994 is applicable to cables rated at voltages not exceeding 450/750V. The voltage applied to the tests were based on 600/1000V as requested by the client.
The test of category W and Z for cables with overall diameter >20mm is carried out as requested by the client.

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Product Service

C E R T I F I C A T E

No. B 081496 0024 Rev. 00

Detail of Sizes:

No. of Core (C)	Size (mm^2)
1	1.5
1	2.5
1	4
1	6
1	10
1	16
1	25
1	35
1	50
1	70
1	95
1	120
1	150
1	185
1	240
1	300
1	400

Tested according to:

BS 6387:1994
IEC 60331-21:1999
IEC 60332-1-2:2004
IEC 60332-3-24:2000
IEC 60332-3-24:2000/AMD1:2008
IEC 60754-1:2011
IEC 60754-2:2011
IEC 61034-2:2005

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Product Service

C E R T I F I C A T E

No. B 081496 0025 Rev. 00

Holder of Certificate: **Bangkok Cable Co., Ltd.**
93 Moo 11 Suksawat Rd.
Nai Khlong Bang Pla Kot, Phra Samut Chedi
Samut Prakan 10290
THAILAND

Certification Mark:

Product: **Fire Resistant Cables**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191254520-EEC21/02-TR

Valid until: 2022-12-20

Date, 2021-04-26

(WEI LIANG TAN)

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Product Service

C E R T I F I C A T E

No. B 081496 0025 Rev. 00

Model(s): **FRC-XLPE/LSHF (Single core)**

Brand Name: **BANGKOK CABLE**

Parameters:

Type : CU/MICA/XLPE/LSHF Cable
Size : 1C x 1.5mm^2 to 1C x 400mm^2
Voltage : 0.6/1kV
Conductor : Stranded circular plain copper wires (class 2)
Fire-barrier type : Mica tape
Insulation : XLPE
Oversheath : LSHF

Test report number(s)	Test Standard(s)
7191033333-EEC12/02-01	IEC 60502-1:2004/AMD1:2009
7191033333-EEC12/02-02	IEC 60502-1:2004/AMD1:2009
7191033333-EEC12/02-03	IEC 60502-1:2004/AMD1:2009
7191033333-EEC12/02-04	IEC 60502-1:2004/AMD1:2009
7191078572-EEC14/03	IEC 60502-1:2004/AMD1:2009
7191033333-EEC12/02-05	*BS 6387:1994
7191033333-EEC12/02-06	*BS 6387:1994
7191033333-EEC12/02-07	*BS 6387:1994
7191033333-EEC12/02-08	*BS 6387:1994
7191078572-EEC14/02	*BS 6387:1994
7191033333-EEC12/02-09	IEC 60332-3-24:2000/AMD1:2008
7191033333-EEC12/02-10	IEC 60332-3-24:2000/AMD1:2008
7191033333-EEC12/02-11	IEC 60332-1-2:2004
7191033333-EEC12/02-12	IEC 60332-1-2:2004
7191033333-EEC12/02-13	IEC 61034-2:2005
7191033333-EEC12/02-14	IEC 61034-2:2005
7191033333-EEC12/02-15	IEC 60754-2:2011
7191033333-EEC12/02-16	IEC 60331-21:1999
7191033333-EEC12/02-17	IEC 60331-21:1999
7191125763-EEC15/02	IEC 60754-1:2011

*The scope of BS 6387:1994 does not cover cables having one insulated conductor without metallic element. Tests were conducted by adopting the test methods specified as requested by the client. BS 6387:1994 is applicable to cables rated at voltages not exceeding 450/750V. The voltage applied to the tests were based on 600/1000V as requested by the client.
The test of category W and Z for cables with overall diameter >20mm is carried out as requested by the client.

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Product Service

C E R T I F I C A T E

No. B 081496 0025 Rev. 00

Detail of Sizes:

No. of Core (C)	Size (mm²)
1	1.5
1	2.5
1	4
1	6
1	10
1	16
1	25
1	35
1	50
1	70
1	95
1	120
1	150
1	185
1	240
1	300
1	400

Tested according to:

BS 6387:1994
IEC 60502-1:2004
IEC 60502-1:2004/AMD1:2009
IEC 60331-21:1999
IEC 60332-1-2:2004
IEC 60332-3-24:2000
IEC 60332-3-24:2000/AMD1:2008
IEC 60754-1:2011
IEC 60754-2:2011
IEC 61034-2:2005

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Product Service

C E R T I F I C A T E

No. B 081496 0023 Rev. 00

Holder of Certificate: **Bangkok Cable Co., Ltd.**
93 Moo 11 Suksawat Rd.
Nai Khlong Bang Pla Kot, Phra Samut Chedi
Samut Prakan 10290
THAILAND

Certification Mark:

Product: **Fire Resistant Cables**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191248706-EEC20/11-TR

Valid until: 2026-02-23

Date, 2021-03-01

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Product Service

C E R T I F I C A T E

No. B 081496 0023 Rev. 00

Model(s): **FRC-XLPE/LSHF (Multi cores)**

Brand Name: **BANGKOK CABLE**

Parameters:

Type	: CU/MICA/XLPE/LSHF Cable
Size	: 2C x 1.5 mm^2 to 4C x 400 mm^2
Voltage	: 0.6/1 kV
Conductor	: Stranded circular plain copper wires (class 2)
Fire barrier	: Mica tape
Insulation	: XLPE
Filler	: FR-PP yarn (2C x 1.5 mm^2)
	: LSHF rod and FR-PP yarn (4C x 400 mm^2)
Binder	: Fiberglass tape
Oversheath	: LSHF

Test report number(s)	Test Standard(s)
719103333-EEC12/03-01	IEC 60502-1:2004/AMD1:2009
719103333-EEC12/03-02	IEC 60502-1:2004/AMD1:2009
719103333-EEC12/03-03	IEC 60502-1:2004/AMD1:2009
719103333-EEC12/03-04	IEC 60502-1:2004/AMD1:2009
7191078572-EEC14/05	IEC 60502-1:2004/AMD1:2009
719103333-EEC12/03-05	BS 6387:1994
719103333-EEC12/03-06	BS 6387:1994
719103333-EEC12/03-07	BS 6387:1994
719103333-EEC12/03-08	BS 6387:1994
719103333-EEC12/03-18	BS 6387:1994
7191078572-EEC14/04	BS 6387:1994
719103333-EEC12/03-09	IEC 60332-3-24:2000/AMD1:2008
719103333-EEC12/03-10	IEC 60332-3-24:2000/AMD1:2008
719103333-EEC12/03-11	IEC 60332-1-2:2004
719103333-EEC12/03-12	IEC 60332-1-2:2004
719103333-EEC12/03-13	IEC 61034-2:2005
719103333-EEC12/03-14	IEC 61034-2:2005
719103333-EEC12/03-15	IEC 60754-2:2011
719103333-EEC12/03-16	IEC 60331-21:1999
719103333-EEC12/03-17	IEC 60331-21:1999
7191125763-EEC15/03	IEC 60754-1:2011
7191248706-EEC20/05	IEC 60332-3-22:2018
7191248706-EEC20/06	IEC 60332-3-22:2018

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Product Service

C E R T I F I C A T E

No. B 081496 0023 Rev. 00

Detail of Sizes:

No. of Core (C)	Size (mm²)
2	1.5
2	2.5
2	4
2	6
2	10
2	16
2	25
2	35
2	50
2	70
2	95
2	120
2	150
2	185
2	240
2	300
2	400

No. of Core (C)	Size (mm²)
3	1.5
3	2.5
3	4
3	6
3	10
3	16
3	25
3	35
3	50
3	70
3	95
3	120
3	150
3	185
3	240
3	300
3	400

No. of Core (C)	Size (mm²)
4	1.5
4	2.5
4	4
4	6
4	10
4	16
4	25
4	35
4	50
4	70
4	95
4	120
4	150
4	185
4	240
4	300
4	400

Tested according to:

BS 6387:1994
IEC 60502-1:2004
IEC 60502-1:2004/AMD1:2009
IEC 60331-21:1999
IEC 60332-1-2:2004
IEC 60332-3-22:2018
IEC 60332-3-24:2000
IEC 60332-3-24:2000/AMD1:2008
IEC 60754-1:2011
IEC 60754-2:2011
IEC 61034-2:2005

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Product Service

C E R T I F I C A T E

No. B 081496 0022 Rev. 00

Holder of Certificate: **Bangkok Cable Co., Ltd.**
93 Moo 11 Suksawat Rd.
Nai Khlong Bang Pla Kot, Phra Samut Chedi
Samut Prakan 10290
THAILAND

Certification Mark:

Product: **Fire Resistant Cables**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191248706-EEC20/12-TR

Valid until: 2026-02-23

Date, 2021-03-01

(WEI LIANG TAN)

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Product Service

C E R T I F I C A T E

No. B 081496 0022 Rev. 00

Model(s): **FRC-XLPE/SWA/LSHF**

Brand Name: **BANGKOK CABLE**

Parameters:

Type	: CU/MICA/XLPE/SWA/LSHF Cable
Size	: 2C x 1.5 mm^2 to 4C x 400 mm^2
Voltage	: 0.6/1 kV
Conductor	: Stranded circular plain copper wires (class 2)
Fire barrier	: Mica tape
Insulation	: XLPE
Filler	: FR-PP yarn (2C x 1.5 mm^2)
	: LSHF rod and FR-PP yarn (4C x 400 mm^2)
Binder	: Polyester tape
Inner covering	: LSHF
Armour	: Galvanized steel wires
Binder	: Polyester tape
Oversheath	: LSHF

Test report number(s)	Test Standard(s)
7191082418-EEC14/17-01	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/17-02	BS 6387:2013
7191082418-EEC14/17-03	IEC 60331-21:1999 IEC 60332-1-2:2004 IEC 60332-3-24:2000/AMD1:2008 IEC 61034-2:2005/AMD1:2013
7191082418-EEC14/18	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/19	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/20-01	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/20-02	BS 6387:2013
7191082418-EEC14/20-03	IEC 60332-1-2:2004 IEC 60332-3-24:2000/AMD1:2008 IEC 60754-1:2011 IEC 60754-2:2011 IEC 61034-2:2005/AMD1:2013
7191248706-EEC20/07	IEC 60332-3-22:2018
7191248706-EEC20/08	IEC 60332-3-22:2018

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Product Service

CERTIFICATE

No. B 081496 0022 Rev. 00

Detail of Sizes:

No. of Core (C)	Size (mm²)
2	1.5
2	2.5
2	4
2	6
2	10
2	16
2	25
2	35
2	50
2	70
2	95
2	120
2	150
2	185
2	240
2	300
2	400

No. of Core (C)	Size (mm²)
3	1.5
3	2.5
3	4
3	6
3	10
3	16
3	25
3	35
3	50
3	70
3	95
3	120
3	150
3	185
3	240
3	300
3	400

No. of Core (C)	Size (mm²)
4	1.5
4	2.5
4	4
4	6
4	10
4	16
4	25
4	35
4	50
4	70
4	95
4	120
4	150
4	185
4	240
4	300
4	400

Tested according to:

BS 6387:2013
IEC 60502-1:2004
IEC 60502-1:2004/AMD1:2009
IEC 60331-21:1999
IEC 60332-1-2:2004
IEC 60332-3-22:2018
IEC 60332-3-24:2000
IEC 60332-3-24:2000/AMD1:2008
IEC 60754-1:2011
IEC 60754-2:2011
IEC 61034-2:2005
IEC 61034-2:2005/AMD1:2013

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Product Service

CERTIFICATE

No. B 14 07 81496 015

Holder of Certificate: **Bangkok Cable Co., Ltd.**
93 Moo 11 Suksawad Rd.
Naiklongbangplakod, Prasamutchedee
Samutprakarn 10290
THAILAND

Production Facility(ies): 81496

Certification Mark:

Product: **Flame retardant cables (Heat Resistant Cable)**

Model(s): **XL-LSHF**

Parameters:
Type : CU/XL-LSHF Cable
Size : 1C x 1.5mm² to 1C x 400mm²
Voltage : 600/1000 V
See appendix for details cable construction

Tested according to:
IEC 61034:2013
IEC 60502-1:2009
IEC 60754-1:2011
IEC 60754-2:2011
IEC 60332-1-2:2004
IEC 60332-3-24:2009
BS EN 50525-3-41:2011

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 7191082418-EEC 14 See Attach

(Kim Suah Phua)

Date, 2014-07-09

261895

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Product Service

CERTIFICATE
No. B 14 07 81496 015

Test Reports
7191082418-EEC14/01-01
7191082418-EEC14/01-02
7191082418-EEC14/02
7191082418-EEC14/03
7191082418-EEC14/04-01
7191082418-EEC14/04-02

Cable construction

Conductor : Stranded Circular Non-Compacted or Compacted Plain Copper Wires (Class 2)
Insulation : XL-LSHF

Details of Size

No. of Core (C)	Size (mm^2)
1	1.5
1	2.5
1	4
1	6
1	10
1	16
1	25
1	35
1	50
1	70
1	95
1	120
1	150
1	185
1	240
1	300
1	400
1	500
1	630

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Product Service

CERTIFICATE

No. B 14 07 81496 012

Holder of Certificate: **Bangkok Cable Co., Ltd.**
93 Moo 11 Suksawad Rd.
Naiklongbangplakod, Prasamutchedee
Samutprakarn 10290
THAILAND

Production Facility(ies): 81496

Certification Mark:

Product: **Flame retardant cables**

Model(s): **XLPE/LSHF**

Parameters:
Type : CU/XLPE/LSHF Cable
Size : 1C x 1.5mm² to 1C x 400mm²
Voltage : 0.6/1 kV
See appendix for details cable construction

Tested according to:
IEC 61034:2013
IEC 60502-1:2009
IEC 60754-1:2011
IEC 60754-2:2011
IEC 60332-1-2:2004
IEC 60332-3-24:2009

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 7191082418-EEC14 See Attach

Date, 2014-07-09
(Kim Suah Phua)

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Product Service

CERTIFICATE
No. B 14 07 81496 012

Test Reports
7191082418-EEC14/05-01
7191082418-EEC14/05-02
7191082418-EEC14/06
7191082418-EEC14/07
7191082418-EEC14/08-01
7191082418-EEC14/08-02

Cable construction

Conductor : Stranded Circular Non-Compacted or Compacted Plain Copper Wires (Class 2)
Insulation : XLPE
Oversheath : LSHF

Details of Size

No. of Core (C)	Size (mm^2)
1	1.5
1	2.5
1	4
1	6
1	10
1	16
1	25
1	35
1	50
1	70
1	95
1	120
1	150
1	185
1	240
1	300
1	400
1	500
1	630

TÜV SÜD Product Service GmbH · Zertifizierstelle · Ridlerstraße 65 · 80339 München · Germany

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

C E R T I F I C A T E

No. B 081496 0020 Rev. 00

Holder of Certificate: **Bangkok Cable Co., Ltd.**
93 Moo 11 Suksawat Rd.
Nai Khlong Bang Pla Kot, Phra Samut Chedi
Samut Prakan 10290
THAILAND

Certification Mark:

Product: **Flame retardant cables**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191248706-EEC20/09-TR

Valid until: 2026-02-23

Date, 2021-02-25

(WEI LIANG TAN)

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Product Service

C E R T I F I C A T E

No. B 081496 0020 Rev. 00

Model(s): **XLPE/LSHF**

Brand Name: **BANGKOK CABLE**

Parameters:

Type	: CU/XLPE/LSHF Cable
Size	: 2C x 1.5 mm^2 to 4C x 400 mm^2
Voltage	: 0.6/1 kV
Conductor	: Stranded circular plain copper wires (class 2)
Insulation	: XLPE
Filler	: FR-PP yarn (2C x 1.5 mm^2)
	: LSHF rod and FR-PP yarn (4C x 400 mm^2)
Binder	: Polyester tape
Oversheath	: LSHF

Test report number(s)	Test Standard(s)
7191082418-EEC14/09-01	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/09-02	IEC 60332-1-2:2004 IEC 60332-3-24:2000/AMD1:2008 IEC 61034-2:2005/AMD1:2013
7191082418-EEC14/10	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/11	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/12-01	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/12-02	IEC 60332-1-2:2004 IEC 60332-3-24:2000/AMD1:2008 IEC 60754-1:2011 IEC 60754-2:2011 IEC 61034-2:2005/AMD1:2013
7191248706-EEC20/01	IEC 60332-3-22:2018
7191248706-EEC20/02	IEC 60332-3-22:2018

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Product Service

CERTIFICATE

No. B 081496 0020 Rev. 00

Detail of Sizes:

No. of Core (C)	Size (mm²)
2	1.5
2	2.5
2	4
2	6
2	10
2	16
2	25
2	35
2	50
2	70
2	95
2	120
2	150
2	185
2	240
2	300
2	400

No. of Core (C)	Size (mm²)
3	1.5
3	2.5
3	4
3	6
3	10
3	16
3	25
3	35
3	50
3	70
3	95
3	120
3	150
3	185
3	240
3	300
3	400

No. of Core (C)	Size (mm²)
4	1.5
4	2.5
4	4
4	6
4	10
4	16
4	25
4	35
4	50
4	70
4	95
4	120
4	150
4	185
4	240
4	300
4	400

Tested according to:

IEC 60502-1:2004
IEC 60502-1:2004/AMD1:2009
IEC 60332-1-2:2004
IEC 60332-3-22:2018
IEC 60332-3-24:2000
IEC 60332-3-24:2000/AMD1:2008
IEC 60754-1:2011
IEC 60754-2:2011
IEC 61034-2:2005
IEC 61034-2:2005/A1:2013

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Product Service

C E R T I F I C A T E

No. B 081496 0021 Rev. 00

Holder of Certificate: **Bangkok Cable Co., Ltd.**
93 Moo 11 Suksawat Rd.
Nai Khlong Bang Pla Kot, Phra Samut Chedi
Samut Prakan 10290
THAILAND

Certification Mark:

Product: **Flame retardant cables**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier.
All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191248706-EEC20/10-TR

Valid until: 2026-02-23

Date, 2021-03-02

(WEI LIANG TAN)

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Product Service

C E R T I F I C A T E

No. B 081496 0021 Rev. 00

Model(s): **XLPE/SWA/LSHF**

Brand Name: **BANGKOK CABLE**

Parameters:

Type	: CU/XLPE/SWA/LSHF Cable
Size	: 2C x 1.5 mm^2 to 4C x 400 mm^2
Voltage	: 0.6/1 kV
Conductor	: Stranded circular plain copper wires (class 2)
Insulation	: XLPE
Filler	: FR-PP yarn (2C x 1.5 mm^2)
	: LSHF rod and FR-PP yarn (4C x 400 mm^2)
Binder	: Polyester tape
Inner covering	: LSHF
Armour	: Galvanized steel wires
Binder	: Polyester tape
Oversheath	: LSHF

Test report number(s)	Test Standard(s)
7191082418-EEC14/13-01	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/13-02	IEC 60332-1-2:2004 IEC 60332-3-24:2000/AMD1:2008 IEC 61034-2:2005/AMD1:2013
719082418-EEC14/14	IEC 60502-1:2004/AMD1:2009
719082418-EEC14/15	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/16-01	IEC 60502-1:2004/AMD1:2009
7191082418-EEC14/16-02	IEC 60332-1-2:2004 IEC 60332-3-24:2000/AMD1:2008 IEC 60754-1:2011 IEC 60754-2:2011 IEC 61034-2:2005/AMD1:2013
7191248706-EEC20/03	IEC 60332-3-22:2018
7191248706-EEC20/04	IEC 60332-3-22:2018

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Product Service

C E R T I F I C A T E

No. B 081496 0021 Rev. 00

Detail of Sizes:

No. of Core (C)	Size (mm²)
2	1.5
2	2.5
2	4
2	6
2	10
2	16
2	25
2	35
2	50
2	70
2	95
2	120
2	150
2	185
2	240
2	300
2	400

No. of Core (C)	Size (mm²)
3	1.5
3	2.5
3	4
3	6
3	10
3	16
3	25
3	35
3	50
3	70
3	95
3	120
3	150
3	185
3	240
3	300
3	400

No. of Core (C)	Size (mm²)
4	1.5
4	2.5
4	4
4	6
4	10
4	16
4	25
4	35
4	50
4	70
4	95
4	120
4	150
4	185
4	240
4	300
4	400

Tested according to:

IEC 60502-1:2004
IEC 60502-1:2004/AMD1:2009
IEC 60332-1-2:2004
IEC 60332-3-22:2018
IEC 60332-3-24:2000
IEC 60332-3-24:2000/AMD1:2008
IEC 60754-1:2011
IEC 60754-2:2011
IEC 61034-2:2005
IEC 61034-2:2005/AMD1:2013

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CABLES UNDER FIRE CONDITIONS LABORATORY



Establishment

Bangkok Cable's Cable Under Fire Conditions Testing Laboratory was established in 2000 which is the first accredited cable under fire conditions testing laboratory in Thailand according to ISO/IEC 17025 since January 2006.

We perform tests with competent personnels and high technology testing equipment to comply international testing standards and meet customer requirements.

Scope of Testing

NSC-TISI-TIS 17025
TESTING 0164



Flame Propagation Test (IEC 60332-3)



Smoke Density Test (IEC 61034)



Acidity and Conductivity Test (IEC 60754-2)

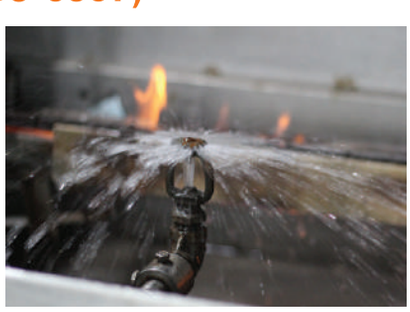


Halogen Acid Gas Content Test (IEC 60754-1)

Resistance to Fire Test (BS 6387)



Resistance to Fire Alone Test (Category C)



Resistance to Fire With Water Test (Category W)



Resistance to Fire With Mechanical Shock Test (Category Z)

บริษัท สายไฟฟ้าบางกอกเคเบิ้ล จำกัด

สำนักงานใหญ่ :

187/1 ถนนราชดำริ แขวงลุมพินี เขตปทุมวัน กรุงเทพฯ 10330

โทร. 0 2651 9221-9, 0 2651 9252-7, 0 2254 4550-9

โทรสาร. 0 2253 6028, 0 2253 5973, 0 2254 3859

โรงงานสมุทรปราการ :

93 หมู่ 11 ถนนสุขสวัสดิ์ ตำบลในคลองบางปลากด

อำเภอพระสมุทรเจดีย์ จังหวัดสมุทรปราการ 10290

โทร. 0 2425 0441-3

โทรสาร. 0 2815 6296

โรงงานฉะเชิงเทรา :

39/1 หมู่ 1 ถนนบางปะกง-ฉะเชิงเทรา ตำบลแสนภูดาษ

อำเภอบ้านโพธิ์ จังหวัดฉะเชิงเทรา 24140

โทร. 0 3857 7266-9

โทรสาร. 0 3857 7270-1

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Fax : +66 2253 6028, 2253 5973, 2254 3859

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Fex : +66 2815 6296

Chachoengsao Factory :

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Tel : +66 3857 7266-9

Fex : +66 3857 7270-1

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@bangkokcablebcc

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sales@bangkokcable.com

www.bangkokcable.com

ใช้ไฟฟ้าปลอดภัย
ใช้สายไฟฟ้า *บางกอกเคเบิ้ล*

ตัวแทนจำหน่าย