



LS TUBE

LS Heat-Shrinkable Tubing





Leading Solution

LG Cable, LG Industrial Systems and LG-Nikko Copper,
Gaon Cable, E1 and Kukdong City Gas are starting with
a new name, Leading Solution, LS.

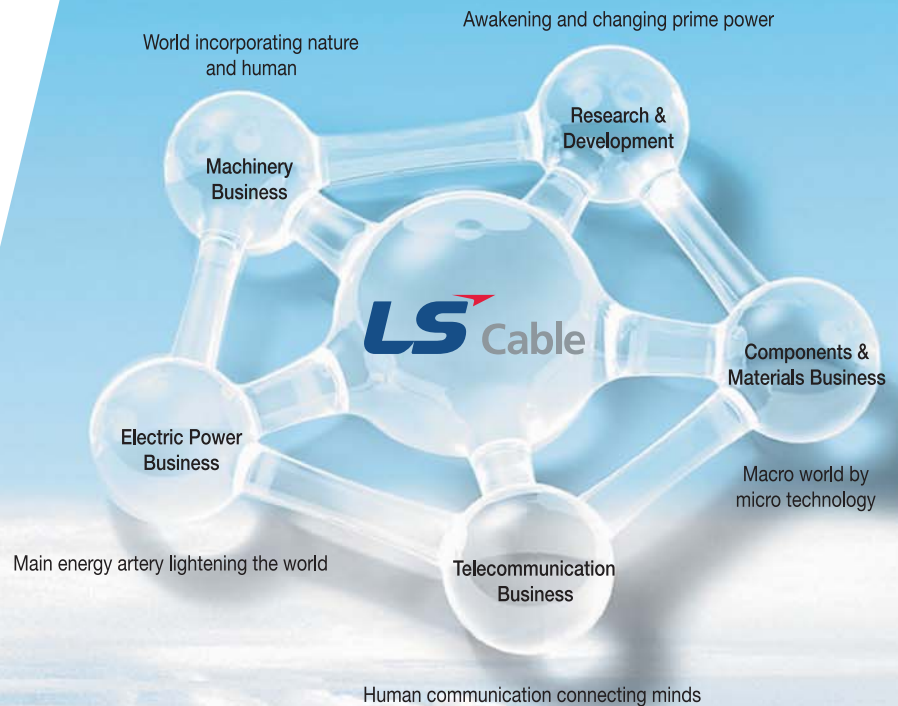
New Dream, New Start

To become a leader in the competitive global market, LG has been divided into three groups, electronics and chemicals for LG, energy and distribution for GS, Industrial electric · electronics and material for LS based on their business specialties.

LS' main companies, such as LS cable, LS industrial systems, LS-Nikko copper, Gaon cable, E1 and Kukdong City gas, are ranked as No. 1 in their respective industry. However, LS won't just sit back, satisfied with being the best in Korea. We will pave the way for becoming the world's best in Industrial electric · electronics and material industry with the new CI, LS.

Your good partner LG Cable is making a fresh start as LS Cable

LS Cable is No. 1 cable maker in Korea and its business fields are telecommunication, electric power, components & materials and machinery. Also, LS Cable is creating new businesses particularly in component and materials industry. LS Cable makes its best to accomplish the vision, 'Your No.1 Creative Partner' and be one of the world leaders with high technology and best level of service.



LS TUBE

Heat Shrink Technology

LS Tube, a division of LS Cable, covers a complete range of heat-shrinkable tubing products, all of which are developed to meet industry requirements, including MIL-I-23053, UL and CSA. Our cross link technology assures the reliable quality of our products and provides lot-to-lot consistency.

Our commitment to develop solutions to address our customers' needs and challenges keep our heat shrink technology on the cutting edge and our know-how in the field more valuable.



High Voltage Busbar Insulation Tubing



- Non-halogenated ethylene propylene rubber.
- Fast and easy installation/removal.
- It provides protection against flashover and accidentally induced discharge.
- It has excellent resistance to corona attack and surface tracking.

- Tubing for both copper and aluminum busbars with rectangular/circular cross section.
- Applicable up to 25kV system voltage when used according to Quick Selection Chart.

- Standards
 - Qualification report for BBHV

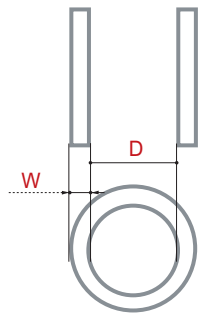
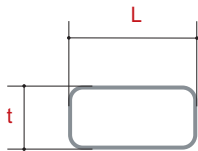
Properties			Values	Test Methods
Physical	Density		Max, 1,20g/cm ³ @23°C	ASTM D 792
	Unaged	Tensile strength	Min, 1,3kgf/mm ²	ASTM D 638
		Elongation	Min, 420%	ASTM D 2671 ISO 37
	Aged	Tensile strength	Min, 1,2kgf/mm ²	ASTM D 638
		Elongation	Min, 370%	ASTM D 2671 121°C/168hrs
	Heat shock		No crack @225°Cx4hrs	ASTM D 2671
	Thermal endurance		TI/120°C	IEC 60216
	Low temperature flexibility		No crack @ -40°Cx4hrs	ASTM D 2671
Electrical	Dielectric strength		Min, 18kV/mm	IEC 60243
	Volume resistivity		Min, 2x10 ¹⁴ Ω·cm	IEC 60093
	Tracking resistance		Class 1A4,5	IEC 60587
Chemical	Smoke Index		Max, 77	NES 711
	Toxicity Index		Max, 2,95	NES 713
	Flammability		Pass	IEEE 27

Available Colors



Dimension

• Size range : 15/06 ~ 150/60 mm, special sizes are negotiable.



Size	Application Range (Busbar,mm)	D(mm) Inside Diameter		W(mm) Wall Thickness		Standard Spool Length (m)
	2(L + t)	as supplied (min)	after recovery (max)	as supplied (nom)	after recovery (nom)	
15/06	24~34	15	6	1.1	2.0	25
25/10	34~44	25	10	0.9	1.9	25
30/12	44~60	30	12	1.1	2.3	30
40/16	60~80	40	16	1.1	2.5	30
50/20	80~105	50	20	1.1	2.5	30
60/25	90~120	60	25	1.1	2.5	30
75/30	105~140	75	30	1.1	2.5	30
100/40	140~180	100	40	1.1	2.5	30
120/50	180~220	120	50	1.3	2.8	30
150/60	220~270	150	60	1.1	2.8	30

• Above busbar range is recommended by LS

LG-BBLV

Low Voltage Busbar Insulation Tubing



Special Features

- Medium-wall tubing for the insulation up to 1kV.
- It provides protection against flashover by an accidental busbar bridging.
- It has excellent heat emission.
- It has excellent UV and weather resistance.
- It has excellent flame retardance and insulation.
- It has an outstanding shelf life at 50°C without any deterioration in performance.

Application

- Suitable for both exposed and enclosed busbars.
- Suitable for connection among switchgears, motor control centers and other electrical equipments.
- Suitable for outdoor use.

Key Specifications

- Standards
Qualification report for BBLV

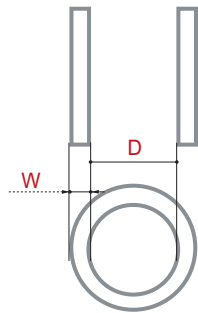
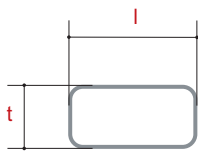
Properties		Values	Test Methods
Physical	Density	Max, 1,20g/cm ³ @23°C	ASTM D 792
	Unaged	Tensile strength	ASTM D 638
		Elongation	ASTM D 2671 ISO 37
	Aged	Tensile strength	ASTM D 2671
		Elongation	150°C/168hrs
	Heat shock	No crack @225°C x4hrs	ASTM D 2671
	Thermal endurance	Tl/140°C	IEC 60216
	Low temperature flexibility	No crack @ -40°C x4hrs	ASTM D 2671
	Impact brittleness	Pass @ -40°C	ASTM D 746
Electrical	Dielectric strength	Min, 18kV/mm	IEC 60243
	Volume resistivity	Min, 2x10 ¹⁴ Ω-cm	IEC 60093
	Tracking resistance	No track	ASTM D 3638
Chemical	Water absorption	Max, 0,1%	ASTM D 570
	Copper corrosion	No corrosion	ASTM D 2671
	Toxicity Index	Max, 7,25	NES 713
	Flammability	Pass	IEEE 27

Available Colors



Dimension

• Size range : 15/06 ~ 175/70 mm, special sizes are negotiable.



Size	Application Range (Busbar,mm)	D(mm) Inside Diameter		W(mm) Wall Thickness		Standard Spool Length (m)
	2(l+t)	as supplied (min)	after recovery (max)	as supplied (nom)	after recovery (nom)	
15/06	24~36	15	6	0.5	1.5	30
30/12	42~76	30	12	0.5	1.5	30
50/20	68~120	50	20	0.5	1.5	30
75/30	100~172	75	30	0.5	1.5	30
100/40	132~220	100	40	0.5	1.5	30
120/50	164~244	120	50	0.5	1.5	30
150/50	172~314	150	50	0.5	1.5	30
175/70	240~400	174	70	0.5	1.5	30

• Above busbar range is recommended by LS

Quality Certificates



We do what it takes to earn quality certifications like ISO 9001, ISO/TS 16949 and ISO 14001, which sets standards for process control and manufacturing flow.

Products & Systems

Electric Power

Extra High Voltage Power Cable |
Overhead Transmission Line
OPGW | Halogen Free Cable |
Busduct system | Shipboard Cable |
Automotive Wire | Enameled Wire |
Electric Wire and Cable



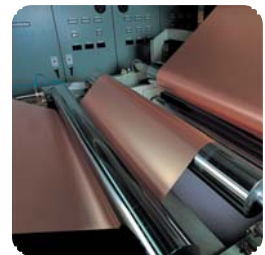
Telecommunication

Optical Fiber | Optical Fiber Cable |
Optical Components & Apparatus |
LAN Cable | FTTH
Leaky Coaxial for Radio Frequency



Electronic Components & Materials

Electronic Connector | Lead Frame |
Magnet Wire | LCD Components |
Copper Wire Rod | Elastomer |
Aluminum Product | Copper Foils |
Ultracapacitor | Smart Heat Spreader



Industrial Machinery

Tractor | Air Conditioning System |
Injection Molding System |
Military Defence Equipment



Global Network



Head Office

21st Fl. ASEM Tower, 159 Samsung-dong
Gangnam-gu, Seoul 135-798 Korea
Tel. +82-2-2189-9114



Anyang Plant

555 Hogwe-dong, Dongan-gu
Anyang, Gyeonggi-do 431-831 Korea
Tel. +82-31-428-4114



Gumi Plant

190 Gongdan-dong, Gumi
Gyeongsangbuk-do 730-708 Korea
Tel. +82-54-469-7114



Indong Plant

643 Jinpyeong-dong, Gumi
Gyeongsangbuk-do 730-735 Korea
Tel. +82-54-469-7050



Gunpo Plant

200 Dangjeong-dong, Gunpo
Gyeonggi-do 435-712 Korea
Tel. +82-31-450-3114



Jeongeup Plant

938 Jeongeup 3 Industrial Complex
Taegok-ri, Buk-myeon, Jeongeup
Jeollabuk-do 580-812 Korea
Tel. +82-63-530-4114



Jeonju Plant

778 Jeonju 3 Industrial Complex
Yongnam-ri, Bongdong-eup, Wanju-gun
Jeollabuk-do 565-904 Korea
Tel. +82-63-279-5114



R&D Center

555 Hogwe-dong, Dongan-gu
Anyang, Gyeonggi-do 431-831 Korea
Tel. +82-31-450-8114

