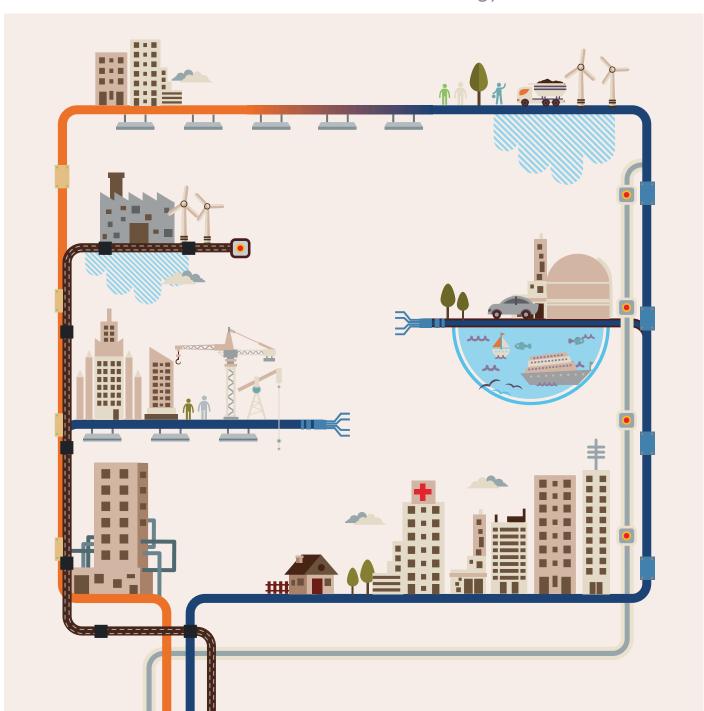
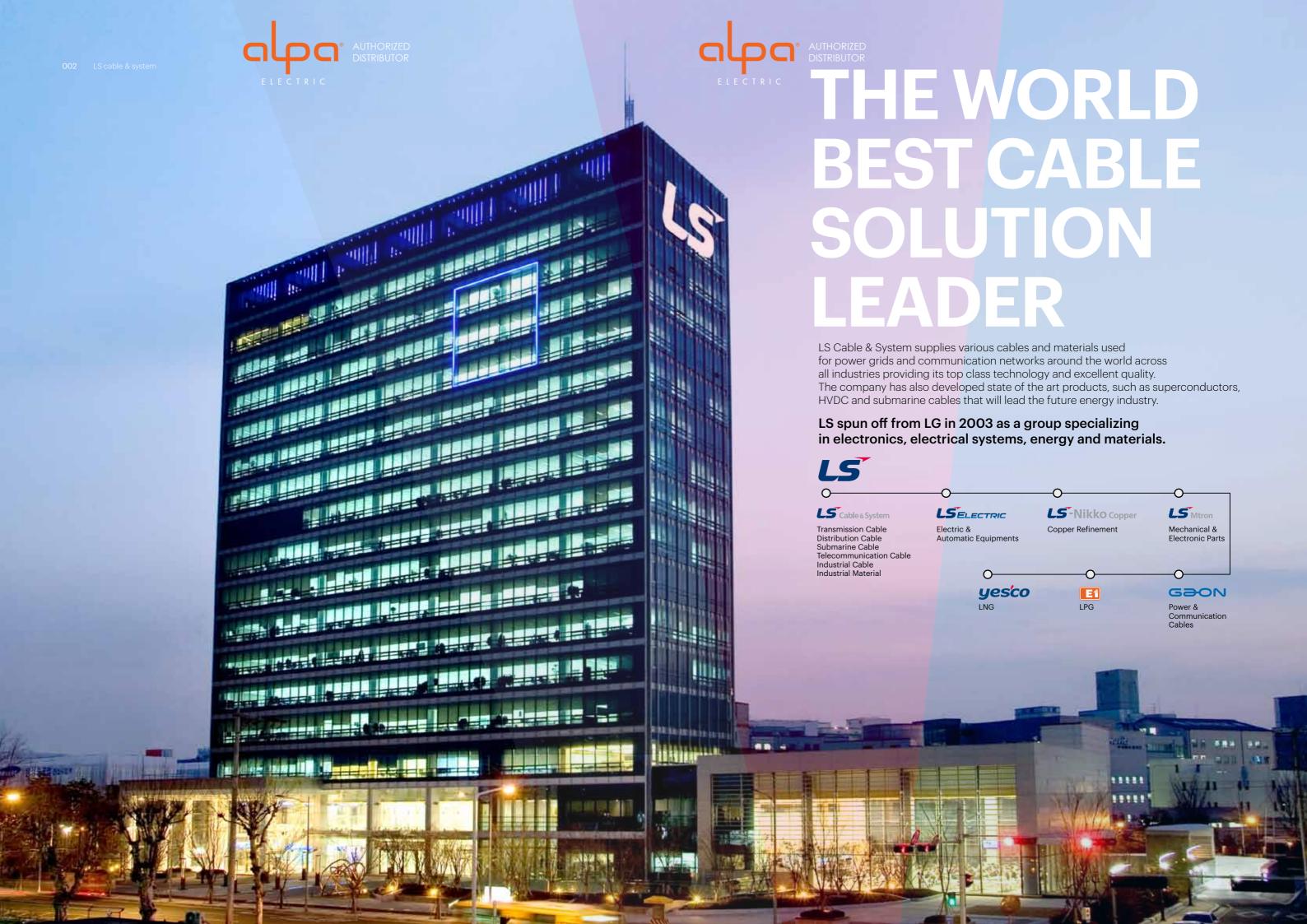


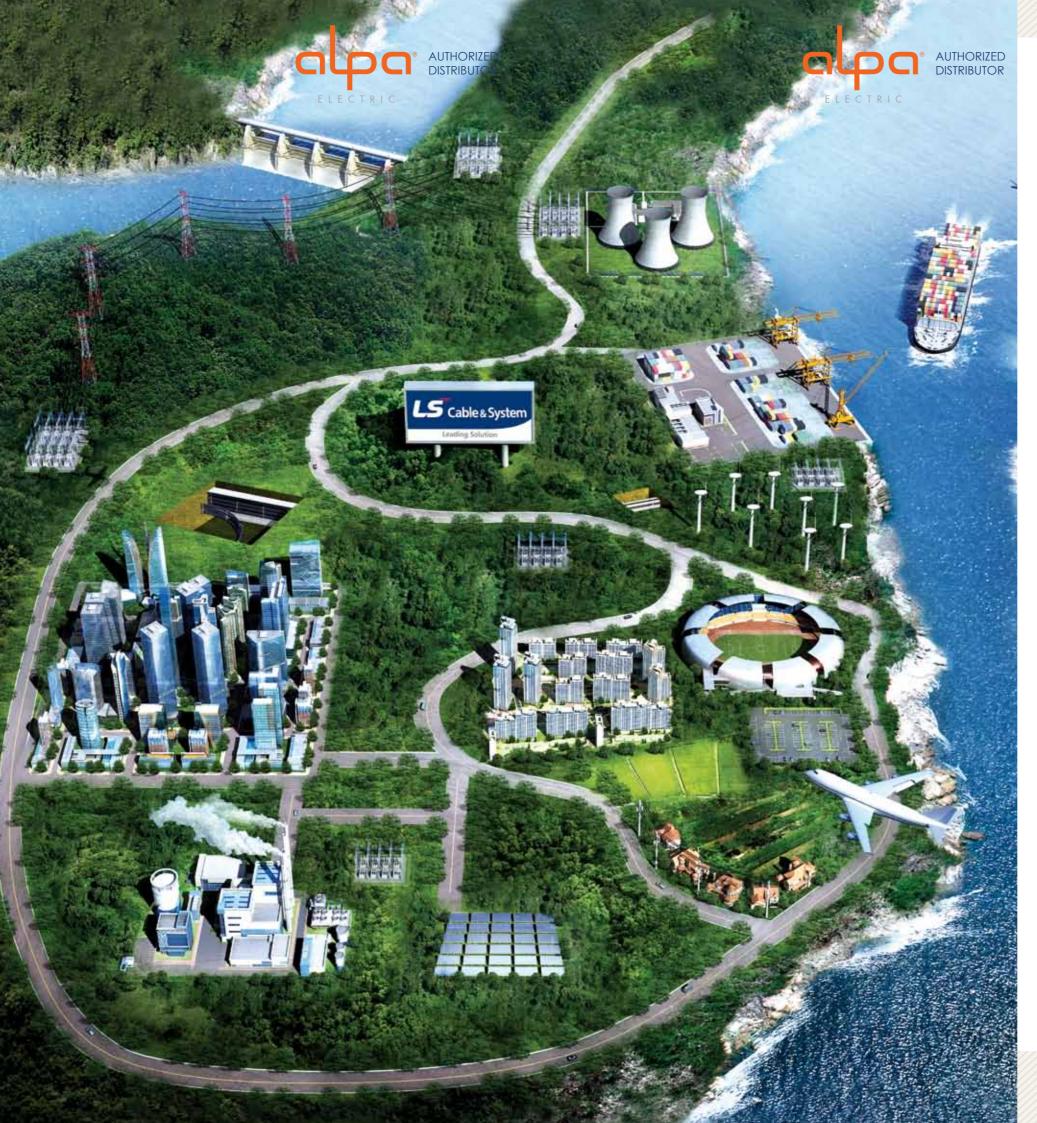
BUSDUCT LT-WAY

Total Busduct Solution for Reliable and Efficient Energy Distribution









LS Cable & System Busduct System Solution



Buildings

The LS C&S Busbuct system is easy to install, and ensures large capacity of energy transmission while providing space efficiency which makes the bus duct system ideal for high-rise buildings, office buildings, data centers and apartment complexes.



Plants

The full lineup is consisting of NSPB, CAST RESIN and SIB that can cover up to 27kv, and the lineup thus enables us to provide our clients customized designs. The system is suitable for electrical rooms and power lines, and it features a real time monitoring system using the temperature and power monitoring system.



Data Cente

The flexibility and expandability as well as easy maintenance property of the busduct system provides the best alternative to improve the existing problems of the conventional power cable system of data centers, which requires constant extension, reinstallation and capacity modification of loads.



Apartment Buildings

Although the demands for more electricity for families are growing, the space for EPS area has reduced. Due to the change, the need for busducts and multi boxes have increased.



Hospitals

The stability of the power supply in the hospitals is perhaps the most vital element, because its failure could threaten the safety of patients.

The Busduct system distributes larger capacity of electric power, and provides stability of the loads which make it an ideal choice to satisfy the requirements of systematization of hospital complexes and larger hospital equipments.



Airports

In order to secure the stable power supply of the airport, the busduct system provides the best customized solutions by installing high voltage busducts at the transmission, transformation and power distribution lines, and by installing low voltage busducts at the cargo, the control tower and general commercial buildings.



Stadium

The needs for a busducts system has been growing for its benefit such as large capacity of power transmission, providing a stable power supply for various loads and an eco friendly property as well as economical quality.

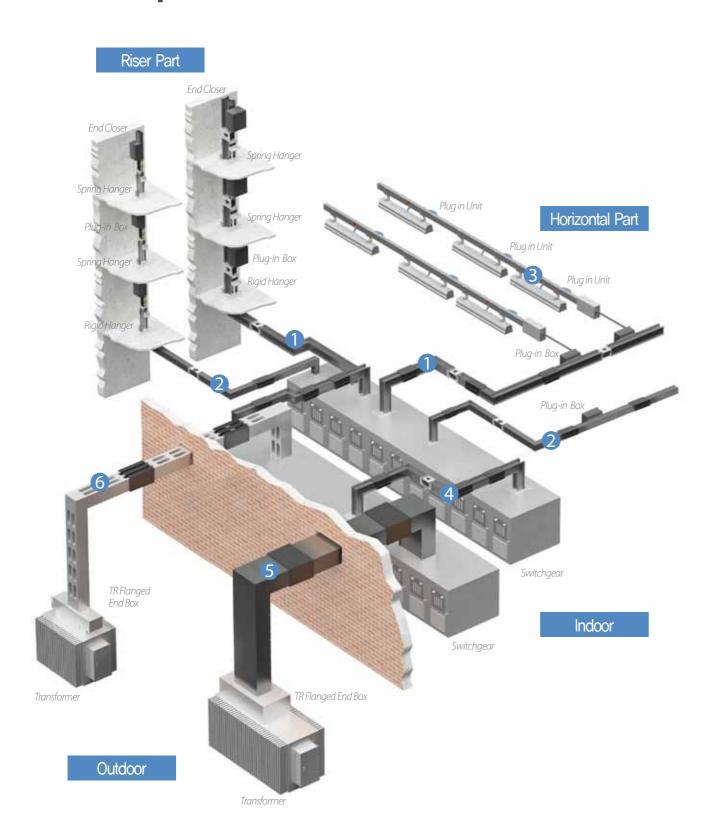


Marine & Wind

The compact and light weight design of the busduct satisfies the demands of the clients, and comes with an outstanding quack resistance property. The busduct provides stability to the operation of the facilities through a real-time monitoring system using a temperature and power monitoring system. As the needs for renewable energy grows, the demand for our busduct has been increasing teadily.



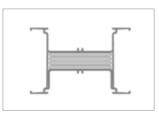
LS Cable & System Busduct Product Line-up





 $\begin{tabular}{ll} E & L & E & C & T & R & I & C \\ \hline \begin{tabular}{ll} The LS Cable \& System Busducts are available in a wide range of products from low current capacity LT-way (25A~63A) to large current \\ \hline \begin{tabular}{ll} LS Cable & System Busducts are available in a wide range of products from low current capacity LT-way (25A~63A) to large current \\ \hline \begin{tabular}{ll} LS Cable & System Busducts are available in a wide range of products from low current capacity LT-way (25A~63A) to large current \\ \hline \begin{tabular}{ll} LS Cable & System Busducts are available in a wide range of products from low current capacity LT-way (25A~63A) to large current \\ \hline \begin{tabular}{ll} LS Cable & System Busducts are available in a wide range of products from low current capacity LT-way (25A~63A) to large current \\ \hline \begin{tabular}{ll} LS Cable & System Busducts are available in a wide range of products from low current capacity LT-way (25A~63A) to large current \\ \hline \begin{tabular}{ll} LS Cable & System Busducts are available in a wide range of products from low current \\ \hline \begin{tabular}{ll} LS Cable & System Busducts \\ \hline \begin{tabular}{ll} LS Cable & System B$ capacity (630A~7500A), and the products enable the supply of proper capacity of power for factories and the distribution system. Our products such as the air insulated bus conducts with enhanced safety property and the cast resin busducts with resistance for high temperature, humidity and dusty environment will satisfy various application needs and provide a customized engineering service.



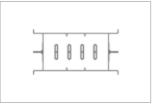


Ez/Ex/Ef-way

Sandwich Type (PET Film, Epoxy Coating, MICA)/AL Extrusion Housing/Standard IP54/Joint Kit

- Designed for low voltage products below AC 1000V, and between 630A to 7500A.
- -The most widely used conventional model.





Air Insulated Type/AL Extrusion Housing/Standard IP54/Joint Kit

- Designed for low voltage products below AC 1000V, and between 160A and 800A.
- Ideal for small distribution system with multi distribution loads (Vertical areas of buildings, data centers, assemble factories)





LT-way

Flat Wire Type/Copper Conductor with PVC Extruded Insulation/AL Extrusion Housing/Various Plug Types/Joint Brush (It can be installed with a live wire.)

- Designed for low voltage products below AC 690V, and between 25A and 63A
- Suitable for Light bulbs, FFU and distribution for small equipments





MS/Wind-way

Air Insulated Type/ Compact NSPB Type / One-Bolting Type Designed for low voltage products below AC 1000V, and between 1000A and 5000A

- A Hybrid incorporating NSPB and sandwich type

- Ideal for ships, wind towers and chemical plants where stability is required.





NSPB-LV/MV

Air Insulated Type/Insulated conductors separated by phase/AL, STS and Steel Housing (optional)/IndoorType/OutdoorType

- NSPB-LV: Designed for low voltage products below AC 1000V, and below 4000A
- NSPB-MV: Designed for high voltage products below AC 27kV, and below 4000A
- Suitable for plants where high stability is required.





CR-LV/MV

- Cast Resin Type/IP 68/FR(MICA) Molding between Conductors
- CR-LV: Designed for low voltage products below AC 1000V, and between 630A and 7500A.
- CR-MV: Designed for high voltage products below AC 27KV, and below 5000A.
- -The most safe bus duct suitable for plants where high stability is required.

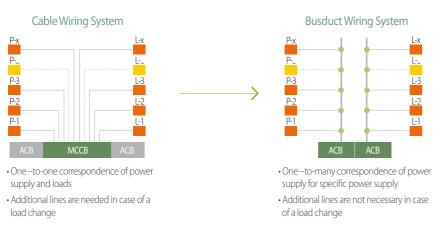


Why Busduct?

Easy Distribution of Loads

When supplying power using cables, each load has to be connected individually to cables which waste space, and an additional distribution panel is also required.

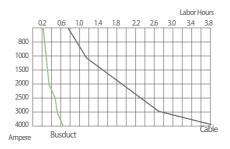
On the other hand, busducts are separated from a single line at a plug box which simplifies the electric power system. A MCCB can be installed at the plug box to effectively shut off fault current.



ACB: Air Circuit Breaker, MCCB: Molded Case Circuit Breaker

Easy Installation

Pulling and cable tray installation for cables can be difficult, and requires a longer construction period, therefore increases the cost. On the other hand, the busducts use a simple installation method to connect specific length of products, which requires a shorter installation period, and is economically friendly.



Compact

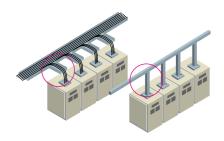
The compact design of the busduct system provides high space efficiency at up to 50% compared to the cables. While cables require larger space to install multi lines as well as additional space for coiling areas, the busducts use proper fittings to maximize space efficiency.





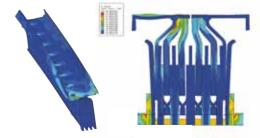
Adaptability to various installation environment with convenience

The busduct system is a power distribution system and can be applied to various complex routes. The busduct system comes with various fittings such as elbow, off-set and tee, and can transmit high capacity currents without electrical and mechanical loss.



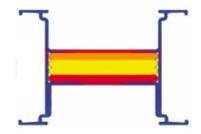
Excellent short circuit

The busduct system has a high tolerance for short circuit. Its stability and reliability make it perfect for a high capacity energy transmission system.



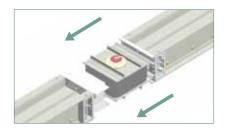
High current density

Cables are connected directly to electric loads using racks. Its maximum allowable current ampacity limit is 1000A, and requires additional lines for a higher current. Each line of the busduct system can transmit up to 7500A, and provides high current density.



Easy maintenance

The design of the busduct system makes it easy to detect abnormalities during installations, and ensures easy maintenance. When humidity or dust causes a malfunction on the system, the easy-to -maintain design allows replacing only the damaged part.



Outstanding features of EMC and EMI

Unlike cables, the busduct system does not require a shield, instead Busduct, the housing itself performs as a shield which enhances the features of EMC and EMI.

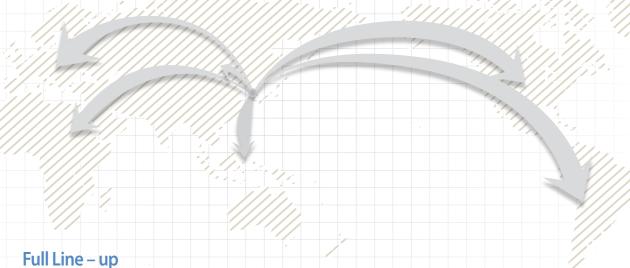




Why LS Cable & System Busduct

Global Top Tier

LS Cable & System has been a long-time leading Busduct provider in korea. With extensive experience and product line competitiveness, the company provides total solutions for each application to satisfy the needs of its clients. Using its expertise in the electronic markets of large LCD monitors and semiconductors in Korea, the company has obtained PJT sales records in 50 countries worldwide in Asia, the Middle East, CIS, and America.



LS Cable & System is the only global company that provides a full line-up of busducts, from low to high voltage and from low to high capacity, to satisfy every need of its clients and provide an optimized solution for each PJT.

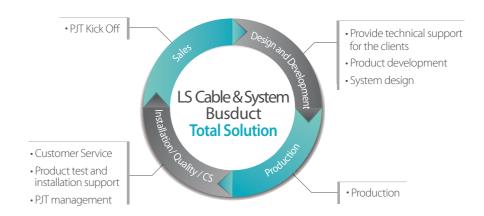




Total Solution

- Once PJT launches, our engineer will participate to guide the clients from the initial period in order to produce the best system for our clients, and to respond quickly when the system is changed.
- Our engineers from each department provide full support in design, production, installation and testing at in-bound to satisfy our clients.
- We operate the CS Team, a task force for the busduct system, to make sure efficient after-sale service and maintenance

Process



Technical Excellence

Unparalleled Reliability

- Provides standardized design, and owns numerous certifications such as UL Certification, Quack Proof Certification, and Impact Resistance Certification
- •The CS team, a task force for the busduct system, provides efficient after-sale service
- Safe use in hazardous zones
- Manage the system using a unique temperature monitor sensor
- Semi-permanent service life
- Used qualified insulation such as epoxy and PET film for efficient insulation

Eco friendly

- Fully recyclable
- Halogen free
- Does not contain RoHS 6 hazardous substance
- No toxicity in fire & Fire-Retardant
- Non Explosive

Total Engineering Technology

- Provide the optimal design by experienced engineers
- Design following analysis and inspection of CAE
- Unique and exclusive design program for the busduct system
- Design based on structure stability inspection
- •The excellent heat –radiating property of the aluminum housing, which ensures large capacity of power transmission
- · Low Weight & Low cost
- Easy installation
- Deployable where access is difficult
- Automated epoxy insulation facility
- · Unique joint kit connections
- Reduce electromagnetic
- BPMS (Busduct Power Monitoring system)
- BTMS (Busduct Temperature Monitoring system)

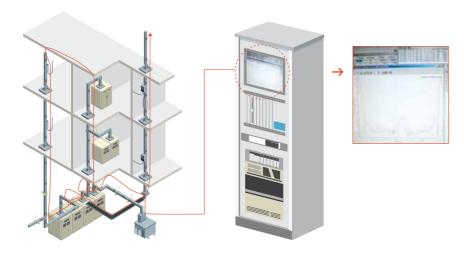


The Busduct Temperature Monitoring System

(BTMS: Busduct Temperature Monitoring System)

The busduct is a large capacity power distribution system. The insulation of the duct has to stay stable when the Joule lines occur during a power supply of the conductor. The rated current will be set by the insulation type and the temperature rises. These properties of the busduct make it possible to monitor and manage abnormalities of the system by checking the temperature of specific areas of the system.

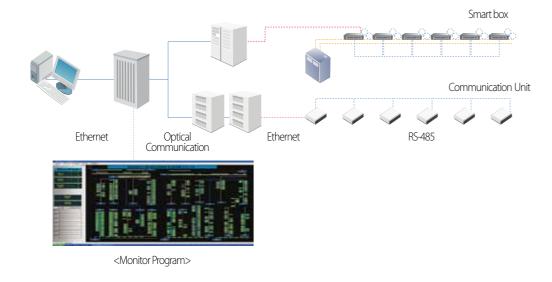
The temperature monitoring system uses various temperature sensors such as optical fiber cable, IC electric chips and thermo-graphic cameras. Specific areas like the entire system line, joints, plug-in boxes and cable connection can be monitored at the central monitor room using various methods on request.



The Busduct Power Monitoring System

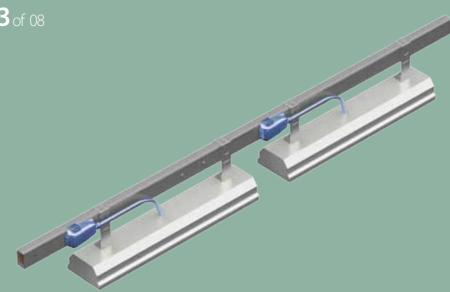
(BPMS: Busduct Power Monitoring System)

The ongoing trends of the busduct system are more than a simple power supplying system. The growing trend is; 1) the stability of the power system, 2) unmanned system,3)cost cutting, and 4)green and smart grid. While the SCADA system monitors and controls the power of the main system, the BMS monitors low loads of the sub system. The frequency of the resent electrical accidents is higher at the sub system than at the main system. Therefore, the preference for the BMS system has been increasing.









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Overview

About LT-way

LS C&S LT-way is designed for small capacity loads of 25 to 63A such as lamp circuits. It is also designed to blend in well with the existing facilities, while providing the optimum power supply system. The LT-way comes with the optimized cross sectional areas as well as stable design of conductors and housing, which provide efficient heat-radiating property specified in IEC heat regulations. The LT-way also comes with a high degree of protection with standard IP54. The design can be applied in a special environment such as greenhouses and clean-rooms. Its adaptability to frequent alterations of a layout makes it a perfect product.

Safe and Efficient Distribution System

LS C&S LT-way is designed for small lines or lamp circuits at buildings, factories and shopping malls. The plug and the outlet attached to the LT-way provide easy management of load distribution.

Eco-Friendly

The LS C&S LT-way is an environmentally friendly product following the RoHS regulation, and only uses components without hazardous substances.

Easy Installation

The light weight of LS C&S LT-way enables easy transportation and installation, and employing the joint brush system makes it easy to take apart and assemble. The plug-in load distribution provides easier maintenance and installation compare to cables.







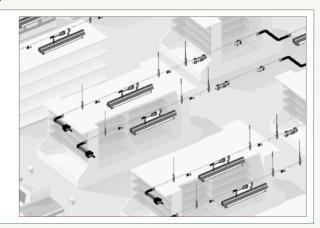
Application



Supermarkets / Shopping Mall etc.

• Can be used as lighting system in the store.







Factory etc.

Can be used as lighting system for production lines.Excellent flexibility and adaptability to layout changes.





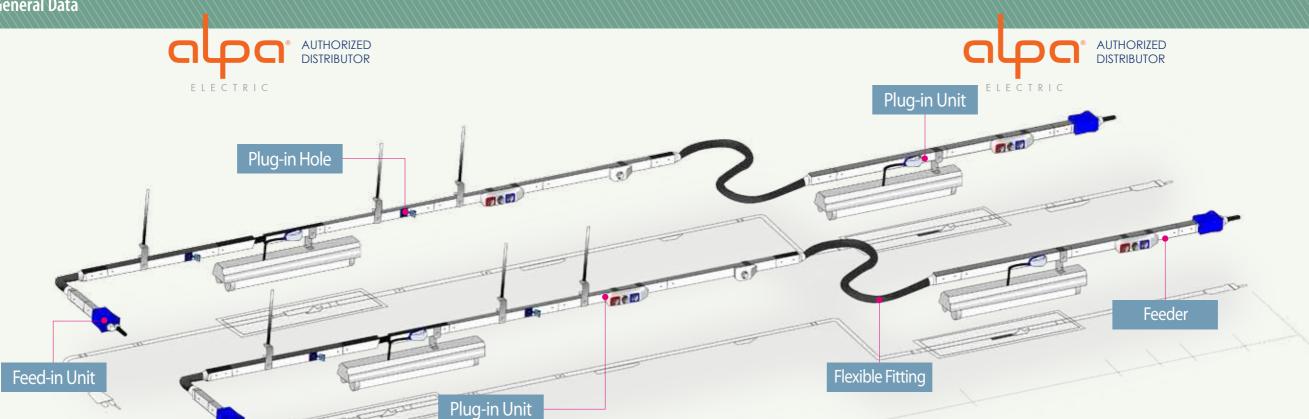


Basement Parking etc.

• Can be used as lighting system for basement parking space of large buildings, apartments and commercial complexes.









Weight

The compact and light weight design of extruded aluminum housing is suitable for low capacity power lines between 25 to 63A.



Eco Friendly

The LS C&S Busducts acquired RoHS certification, and only uses components without hazardous substances such as lead, cadmium, mercury, chrome, PBBs and PBDEs.



Easy Load Distribution

Each feeder (3 meters) can have a maximum 10 load distributions installed, and provide them easily.



Standard

- IEC 61439-1 [(previous standard)IEC 60439-1] Power Switchgear and Controlgear Assemblies
- IEC 61439-6 [(previous standard)IEC 60439-2] Busbar Trunking Systems



Insulation

Engineering).

Conductors

Other than the connections and the PH, the conductor has been insulated which prevent accidents caused by impacts. The insulation uses PVC which has the fire proof grade A rating (105°C) according to IEC regulations.

The conductor uses over 99 percent pure copper flat

wire consisting of 2 or 4 fibers. Elongated marks have

been etched in order to prevent slips when pressed.

The LT-way comes with high molecule insulation of

a fire proof grade A rating. The intervals between insulations have been designed for the optimum functionality as specified in CAE (Computer Aided



Housing

The high strength aluminum housing can be used as a protective conductor (PE) due to its high level conductivity and mechanical strength. Variety of coating options for the housing is available on request.



Joint Brush

The Joint brush can be safely and easily connected with a live wire. Optional double cover is available. The double enhances the strength against impacts.



Permissible Operating Temperature

The cross sectional areas of the conductor and housing profile are designed to meet the standard permissible operating temperature of IEC 61439-1 and 6. Therefore the temperature rise limit of the housing is within 55K or less of the ambient temperature.



Service Condition

- Relative Humidity: 95% or below
- (When the service condition of the environment does not meet the requirements listed above, please contact our design team.)



Basic Structure

LT-way comes with flat-wire, and suitable for small loads or lamp loads of 690V 25 to 63A. Each phase has been wrapped with PVC, an electric insulation with an A rating (fire proof grade 105 °C) or higher, and the same rating insulation supports them.

Configration



Phase : (PH + N + PE)

Wire: 2 Tier:1



Phase: (3PH + N + PE)

(PH + N + PE)

Wire:6 Tier:2



Phase: (3PH + N + PE)

Wire:4 Tier:1



Phase: $(3PH + N + PE) \times 2$

Wire:8 Tier:2



Phase: $(PH + N + PE) \times 2$

Wire:4 Tier:2



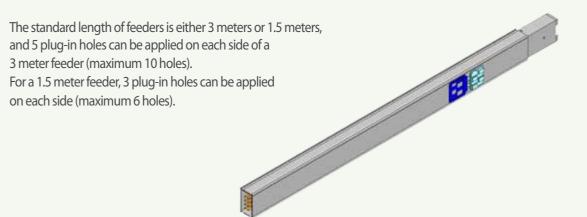
Phase: (3PH + N + PE)

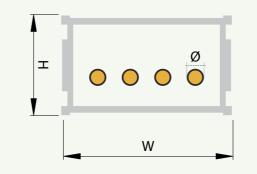
Wire:4 Tier:2

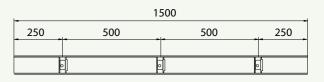
*It only applies to the special capacity (63A).

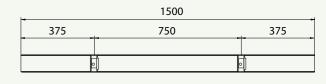


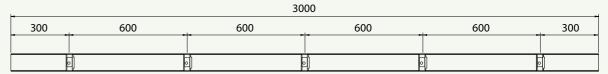
Feeder

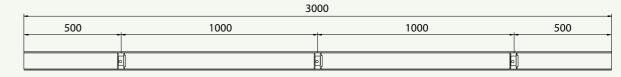


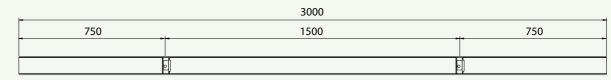












Ampere(A)		Dimension(mm)					
		Н					
	25	30		1.8			
CU	40		50	2.8			
	63						





Feeder

A single housing can handle two lines (R, S, T, N \times 2), and the 3-phase 4-wire system supplies larger capacity than a single phase which decrease the line imbalance.

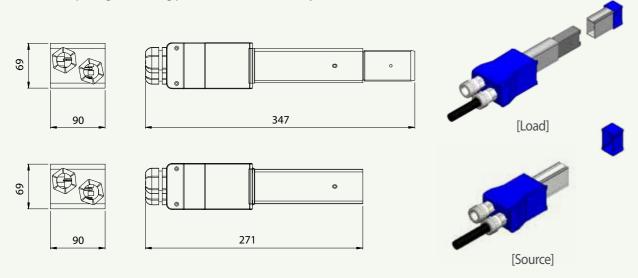
Configuratian	Ampere	Wire	Tier	Length	Plug-in hole	Weight	Cat No.
Comiguiatian	A	W	Tier	mm	EA	g/m	No.
	25	2	1	3000	0		LSLT F252130
	25	2	1	3000	2	2355	LSLT F252132
	25	2	1	3000	3		LSLT F252133
	25	2	1	3000	5		LSLT F252135
•	25	2	1	1500	2	1260	LSLT F252112
STD. Feeder	2	2	1	1500	3	1200	LSLT F252113
(Ph + N + PE)	40	2	1	3000	0		LSLT F402130
	40	2	1	3000	2	2520	LSLT F402132
	40	2	1	3000	3	2320	LSLT F402133
	40	2	1	3000	5		LSLT F402135
	40	2	1	1500	2	1340	LSLT F402112
	40	2	1	1500	3		LSLT F402113
	25	4	1	3000	0	2615	LSLT F254130
	25	4	1	3000	2		LSLT F254132
	25	4	1	3000	3		LSLT F254133
	25	4	1	3000	5		LSLT F254135
	25	4	1	1500	2	1390	LSLT F254112
•	25	4	1	1500	3		LSLT F254113
STD. Feeder (3Ph + N + PE) ●	40	4	1	3000	0		LSLT F404130
•	40	4	1	3000	2		LSLT F404132
1	40	4	1	3000	3	2970	LSLT F404133
	40	4	1	3000	4		LSLT F404134
	40	4	1	3000	5		LSLT F404135
	40	4	1	1500	2	1565	LSLT F404112
	40	4	1	1500	3	1565	LSLT F404113
	63	4	1	3000	0		LSLTF634130
1	63	4	1	3000	2	3860	LSLTF634132
STD.Feeder	63	4	1	3000	3		LSLTF634133
(3Ph+N+PE)	63	4	1	1500	5		LSLTF634135
••	63	4	1	1500	2	2012	LSLTF634112
	63	4	1	3000	3	2010	LSLTF634113

Configuratian	Ampere		Tier	Length	Plug-in hole	Weight	Cat No.
Configuration	A	W	Tier	mm	EA	g/m	No.
	25	6	2	3000	0		LSLT F256230
	25	6	2	3000	2	2615	LSLT F256232
	25	6	2	3000	3	2013	LSLT F256233
	25	6	2	3000	5		LSLT F256235
00	25	6	2	1500	2	1390	LSLT F256212
STD. Feeder	25	6	2	1500	3	1390	LSLT F256213
(Ph + N + PE) x 2	40	6	2	3000	0		LSLT F406230
-	40	6	2	3000	2	2970	LSLT F406232
	40	6	2	3000	3	2970	LSLT F406233
	40	6	2	3000	5		LSLT F406235
	40	6	2	1500	2	1565	LSLT F406212
	40	6	2	1500	3		LSLT F406213
	25	6	2	3000	0		LSLT F256230
	25	6	2	3000	2	2890	LSLT F256232
	25	6	2	3000	3		LSLT F256233
	25	6	2	3000	5		LSLT F256235
00	25	6	2	1500	2	1525	LSLT F256212
STD. Feeder	25	6	2	1500	3	1525	LSLT F256213
(3Ph + N + PE)(Ph + N + PE)	40	6	2	3000	0	3415	LSLT F406230
•	40	6	2	3000	2		LSLT F406232
-	40	6	2	3000	3		LSLT F406233
	40	6	2	3000	5		LSLT F406235
	40	6	2	1500	2	1700	LSLT F406212
	40	6	2	1500	3	1790	LSLT F406213
	25	8	2	3000	0		LSLT F258230
	25	8	2	3000	2	2175	LSLT F258232
	25	8	2	3000	3	3175	LSLT F258233
_	25	8	2	3000	5		LSLT F258235
00	25	8	2	1500	2	4.670	LSLT F258212
STD. Feeder	25	8	2	1500	3	1670	LSLT F258213
(3Ph + N + PE) x 2	40	8	2	3000	0		LSLT F408230
	40	8	2	3000	2	2010	LSLT F408232
	40	8	2	3000	3	3860	LSLT F408233
	40	8	2	3000	5		LSLT F408235
	40	8	2	1500	2		LSLT F408212
	40	8	2	1500	3	2010	LSLT F408213



Feed in Unit

The feed in unit connects cables and the LT-way. It can connect a maximum 10mm² and is used at the opening and ending points of source and load system.

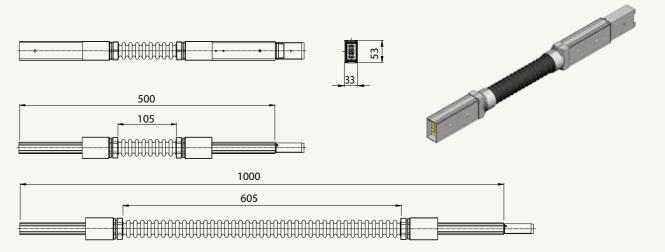


Configu	ration	Ampere	Wire	Tier	Source/Load	Weight	Cat No.
Configuration		А	W	Tier	Source/Load	g/m	No.
	1	25	2	1	Source	500	LSLT U2521S
STD. Feeder	•	25	2	1	Load	600	LSLT U2521L
(Ph + N +PE)		40	2	1	Source	515	LSLT U4021S
		40	2	1	Load	515	LSLT U4021L
		25	4	1	Source	515	LSLT U2541S
	<u> </u>	25	4	1	Load	515	LSLT U2541L
STD. Feeder	0 00	40	4	1	Source	550	LSLT U4041S
(3Ph + N + PE)	0 00	40	4	1	Load	550	LSLT U4041L
		63	4	1	Source	615	LSLTU6341S
		63	4	1	Load	615	LSLTU6341L
		25	4	2	Source	515	LSLT U2542S
STD. Feeder	00	25	4	2	Load	515	LSLT U2542L
$(Ph + N + PE) \times 2$		40	4	2	Source	550	LSLT U4042S
		40	4	2	Load	550	LSLT U4042L
		25	6	2	Source	530	LSLT U2562S
STD. Feeder	00	25	6	2	Load	530	LSLT U2562L
(3Ph + N + PE) (Ph + N + PE)	0	40	6	2	Source	580	LSLT U4062S
		40	6	2	Load	580	LSLT U4062L
		25	8	2	Source	545	LSLT U2582S
STD. Feeder	00	25	8	2	Load	545	LSLT U2582L
$(3Ph + N + PE) \times 2$	00	40	8	2	Source	615	LSLT U4082S
		40	8	2	Load	615	LSLT U4082L



Flexible Fitting

The flexible fitting rotates 180° and is used to adjust the height or bypass a route. The fixing method is the same as the feeder and the standard length is 0.5m and 1m.

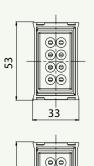


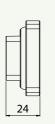
Confin	uration	Ampere	Wire	Tier	Length	Weight	Cat No.
Config	uration	А	W	Tier	mm	g/m	No.
-		25	2	1	500	585	LSLT X25210
STD. Feeder	0	25	2	1	1000	1010	LSLT X25211
(Ph + N + PE)		40	2	1	500	610	LSLT X40210
		40	2	1	1000	1060	LSLT X40211
		25	4	1	500	630	LSLT X25410
	1-1	25	4	1	1000	1100	LSLT X25411
STD. Feeder	0 00	40	4	1	500	615	LSLT X40410
(3Ph + N + PE)	0 00	40	4	1	1000	1195	LSLT X40411
		63	4	1	500	815	LSLTX63410
		63	4	1	1000	1465	LSLTU63411
		25	4	2	500	630	LSLT X25420
STD. Feeder	00	25	4	2	1000	1110	LSLT X25421
$(Ph + N + PE) \times 2$		40	4	2	500	615	LSLT X40420
		40	4	2	1000	1195	LSLT X40421
		25	6	2	500	675	LSLT X25620
STD. Feeder	00	25	6	2	1000	1185	LSLT X25621
(3Ph + N +PE) (Ph + N + PE)	0	40	6	2	500	745	LSLT X40620
,		40	6	2	1000	1330	LSLT X40621
		25	8	2	500	720	LSLT X25820
STD. Feeder	00	25	8	2	1000	1275	LSLT X25821
$(3Ph + N + PE) \times 2$	00	40	8	2	500	815	LSLT X40820
		40	8	2	1000	1465	LSLT X40821

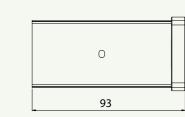


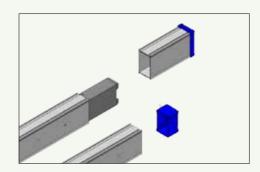
End Cover

The end cover is applied at the end of a rail, and is the same for all capacities.





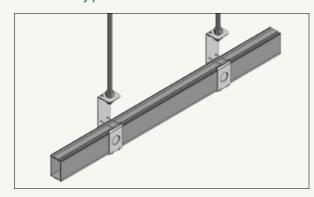




Source/Load	Cat No.
Source / Load	No.
Source	LSLT ES
Load	LSLT EL
Source	LSLT ES
Load	LSLT EL
Source	LSLT ES
Load	LSLT EL
	Source / Load Source Load Source Load Source Source

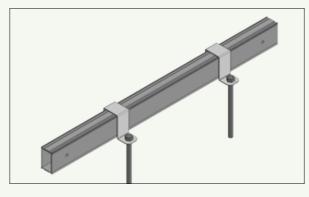
Hanger

General Type



Product	Install Method	Maximum Load kg
General Type	It is installed at the hanging bolt.	60
Direct Type	It is installed at the fixing band.	60

Direct Type



- The hangers are used to install the busducts at buildings.
- They can be either installed directly to the ceiling, or at the hanger rods.
- The standard installation interval between hangers is 1.5 meters. Caution) When the hangers are used to fix lamps, avoid the positions of the joint connection.



Please contact out design team if a special type of hangers (Tee or Reducer) are required due to the installation environment.



Plug-in Unit

The load distribution system can be either installed or removed with a live line. The unit is a double-sided clamp to connect a conductor, and incombustible materials have been used for the insulation and plastic

Phase Joint Type

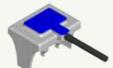
It is usually used for single phase products, and the design maximizes the convenience.







Phase Selection Type



Mar.	
eq.	

The adaptability of this type provides options to select a suitable phase It is the same type as the phase selection type; however, the fuse type depending on the condition of the installation site. The internal process comes with a fuse for each phase to protect faulty current and overcurrent of the type can be checked through the transparent cover. caused by load distribution.

Fuse Type

Phase

Joint

Type

Phase

Selection Type

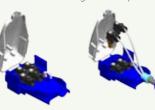
Fuse

Туре

10/16A

10/16A

10/16A







L1+N

L2+N

L3+N

L1+N

L2+N

L3+N

L1+L2

L1+L3

L2+L3

L1+L2+L3+N

L1+N

L2+N

L3+N

L1+L2

L1+L3 L2+L3

L1+L2+L3+N

LSLT P10F1

LSLT P10F2

LSLT P10F3

LSLT P10S1

LSLT P10S2

LSLT P10S3

LSLT P10S12

LSLT P10S13

LSLT P10S23

LSLT P10S4

LSLT P10FU1

LSLT P10FU2

LSLT P10FU3

LSLT P10FU12

LSLT P10FU13

LSLT P10FU23

LSLT P10FU4

It is designed for low capacity products (63A or less). Easy to use and a 1-outlet or 3-outlet plug-in is available.





Product	Capacity(A)	Phase	Cat No.(No)
		L1+N	LSLT P10S1
		L2+N	LSLT P10S2
		L3+N	LSLT P10S3
1 outlet	10/16	L1+L2	LSLT P10S12
		L1+L3	LSLT P10S13
		L2+L3	LSLT P10S23
		L1+L2+L3+N	LSLT P10S4
		L1+N	LSLT P10FU1
		L2+N	LSLT P10FU2
		L3+N	LSLT P10FU3
3 outlet	10/16	L1+L2	LSLT P10FU12
		L1+L3	LSLT P10FU13
		L2+L3	LSLT P10FU23
		L1+L2+L3+N	LSLT P10FU4

26 LT-way LS C&S-Busway System LT-way LS C&S-Busway System 27



Technical Data

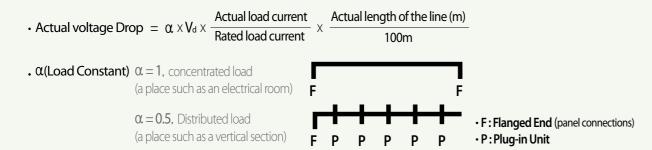
Impedance and Voltage Drop

The formula to measure the voltage drop of a Busduct is shown below. The impedance and voltage drop values for aluminum and copper conductors are shown in the table below.

The values listed are measured between the upper and middle lines at 60Hz. For a 50Hz installation, multiply the reactance (X) by 0.83.

$\cdot V_d = I \times \sqrt{3} (R \cos\theta + X \sin\theta)$

 $\cdot V_d = \text{voltage drop}[V] \cdot I = \text{rated road amperes}[A] \cdot R = \text{resistance}[\Omega] \cdot X = \text{reactance}[\Omega] / \cos = \text{power factor / sim} = \text{reactive factor } I = \text{reactive fact$



Ampere(A)		10 ⁻³ Ω /100m, 60Hz			Voltage Drop(V/100m)				
						0.8	0.9	1	
	25	8.1	0.2	8.1	0.25	0.29	0.32	0.35	
CU	40	3.35	0.167	3.4	0.17	0.19	0.21	0.23	
	63	1.67	0.141	1.7	0.14	0.16	0.17	0.18	

Short Circuit Strength

LT-way has been tested under actual short circuit conditions according to IEC 61439-1 and 6 [(previous standard) IEC 60439-1 and 2].

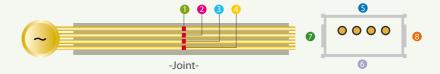
Ampara(A)	Copper(kA)			
Ampere(A)	1 sec.	3 sec.		
25	0.6	0.34		
40	1.4	0.8		
63	1.4	0.8		

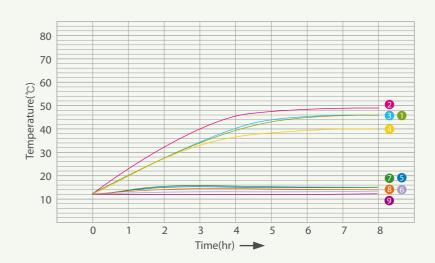


Temperature rise

The temperature rise limit is an important property which determines the performance of busducts. The temperature rise limit of the Busduct is designed so that when a Busduct is operated with a rated current, the temperature limit values of the housing are within 55K as specified in IEC61439-1 and 6 [(previous standard) IEC 60439-1 and 2].







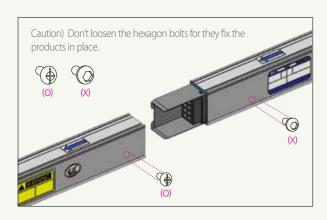
Classification	1	2	3	4	5	6	7	8	9
Censer Location	r Location Connection Conductor					Housing			
Temperature Rise Value	46K	49K	46K	40K	15K	14K	15K	14K	12℃

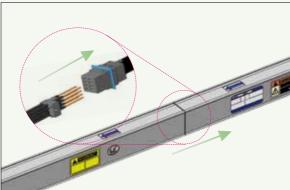


Joint Connection

1) Check the condition of the joint, and loosen the cross heads of the protection cover.

2) Insert the end into the other as shown in the image below, and tighten the cross heads.



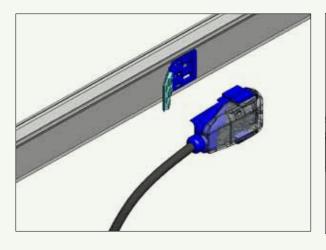


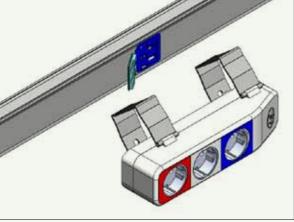
Caution

Make sure to clean the parts of the joint before installation. Proceed with caution since the joint can be damaged by impacts. Be sure to keep them straight and steady to connect.

Plug-in Unit Installation

Open the plug cover as shown below, and insert an appropriate plug-in unit or an outlet plug.





Make sure the plug-in holes are clean before inserting the plug-in unit. Be sure to check the phase of unit and the plug.



Certification & Specification







Temperature Rise Test KERI Certification

Temperature Rise Test KERI Certification

Heat Resistant Performance Certification







TUV Environmentally Friendly Certification

ISO 14001

ISO 9001



OHSAS 18001

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Overhead cable Bus duct



Indong Plant
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Optical cable



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CHINA



LSHQ(Yichang)
EHV / MV / LV cable
Industrial specialty cable



LSCW(Wuxi)
Industrial devices cable
Automotive cable
Harness & module
Aluminum. Bus duct



VIETNAM



LS-VINA(Haiphong) EHV / MV / LV cable SCR, ACSR Overhead cable



LSCV(HO Chi Minh) MV / LV cable UTP, Optical cable Overhead cable

INDIA



LSCI(Bawal)
EHV / MV / LV cable
Coaxial cable
Overhead cable

SA



LSCUS(Tarboro)

MV / LV cable
Control, Instrument cable



LS EV Poland./LSCP

(Dzierzoniow)

Automotive battery components
Optical cable

Global Network







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18F, LS Yongsan Tower, 92 Hangang-daero, Yongsan-gu, Seoul, 04386, Korea Tel. 82-2-2189-8884 Fax. 82-2-6969-5424

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