T-BUSWAY BUSDUCT SYSTEM

Low Voltage Busduct System



taihan
CABLE & SOLUTION





TAIHAN's All - New Production Plant in DangJin

The Dangjin plant of Taihan is the world largest single cable manufacturing plant and is a smart & green factory with a State-of-the-Art production lines and environment friendly systems.

In the Dangjin plant, we carry out one-stop process from the conductor production to the complete production test in the four unit factories including ultra-high voltage, general electric power, communication, and material factories. Here we manufacture the best quality electric power cables, communication cables, and industrial materials.

Taihan establishes the foundation of electric and communication industry during a half century, and has developed world-class technologies and business know-how. Taihan, as a company that provides optimized products and best services to meet the customer's needs, will create the future of cable & solution industry.



BUSDUCT SYSTEM
T-Busway

As Busway system uses Copper and Aluminium as a conductor, its current capacity is high and electrical and mechanical characteristics is better than the cables. It also has an advantage on non-flammability and safety, by using metal exterior.

Compared to the traditional wiring system, the installation procedure of the busway system is easier, the installation space can be saved, and it has an extra advantage on high-rise building construction site.

We have applied TAIHAN's accumulated experience on manufacturing cables from 1955 to the technics of busway system.

Installation 6

Key Features 8

Specifications 9

Physical Data 11

Cautions on Installation 20

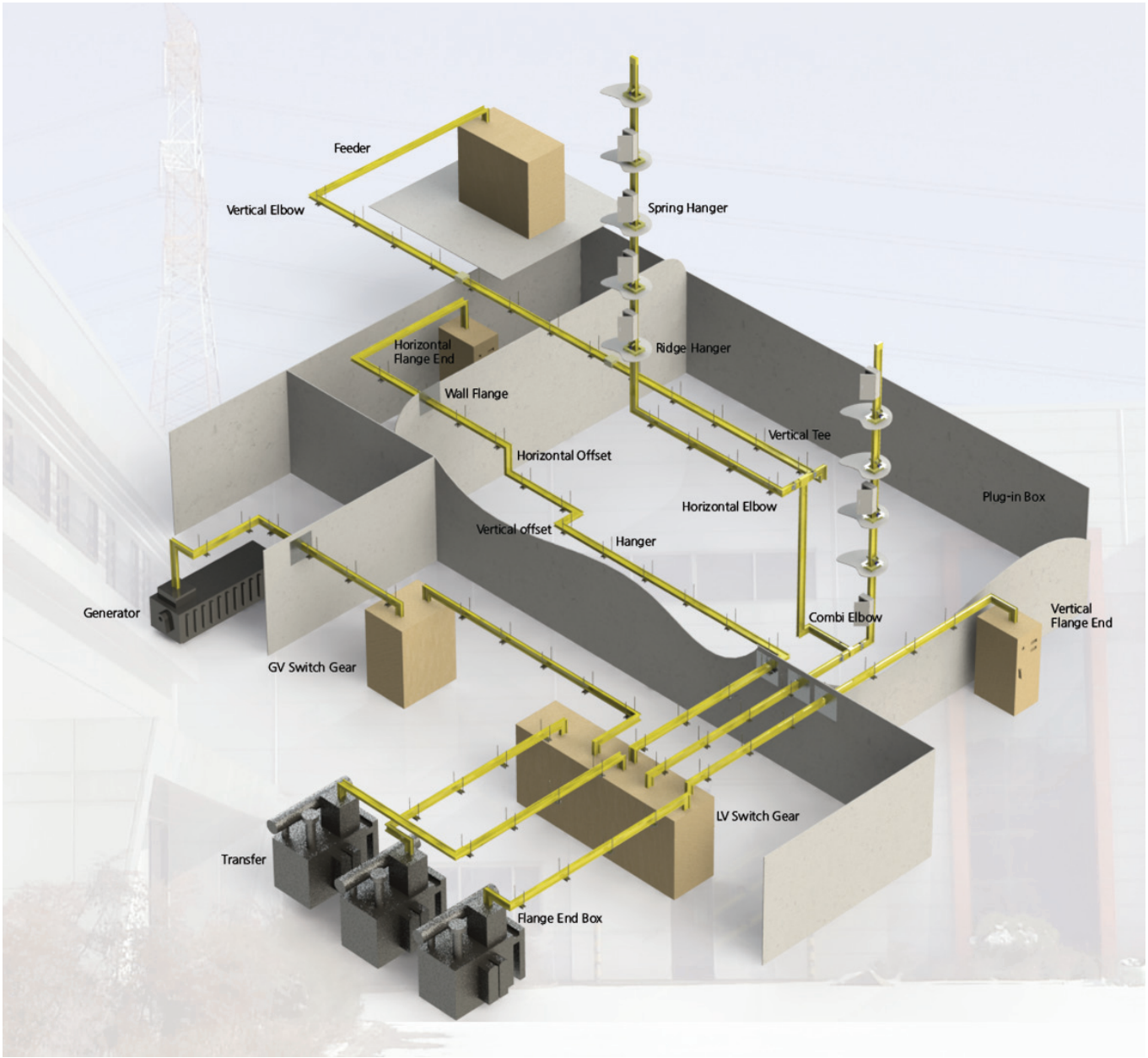
Installation Procedure 23

T-BUSWAY Installation

T-BUSWAY
TAIHAN- TOP - TRUST

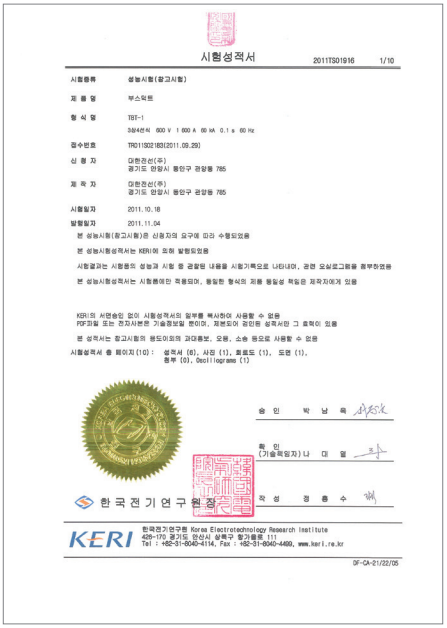
TAIHAN's busway system brings TOP quality to the customers to earn their TRUST.

■ Installation Diagram and Lay-Out



BUSDUCT SYSTEM

T-BUSWAY Certifications



시험성적서

2011TS01916 1/10

시험종류 성능시험(참고시험)

제 품 명 부스덕트

형 식 명 TBT-1
3Ø4선식 600 V 1 600 A 60 kA 0.1 s 60 Hz

접수번호 TR(1)302183(2011.09.29)

신 청 자 대한전선(주)
경기도 안양시 동안구 관양동 785

제 작 자 대한전선(주)
경기도 안양시 동안구 관양동 785

시험일자 2011.10.18

발행일자 2011.11.04

본 성능시험(참고시험)은 신청자의 요구에 따라 수행되었음

본 성능시험성적서는 KERI에 의해 발행되었음

시험결과는 시험품의 성능과 시험 중 관찰된 내용을 시험기록으로 나타내며, 관련 오실로그램을 첨부하였음

본 성능시험성적서는 시험품에만 적용되며, 동일한 형식의 제품 동일성 확인은 제작자에게 있음

KERI의 서면승인 없이 시험성적서의 일부를 복사하여 사용할 수 없음
PDF파일 또는 전자서명본 기술정보일 뿐이며, 제본되어 공인된 성적서만 그 효력이 있음

본 성적서는 참고시험의 범위이외의 과다충분, 오용, 소송 등으로 사용할 수 없음

시험성적서 총 페이지(10) : 성적서 (6), 사진 (1), 회로도 (1), 도면 (1), 흡부 (0), Oscillograms (1)

승 인 박 남 욱

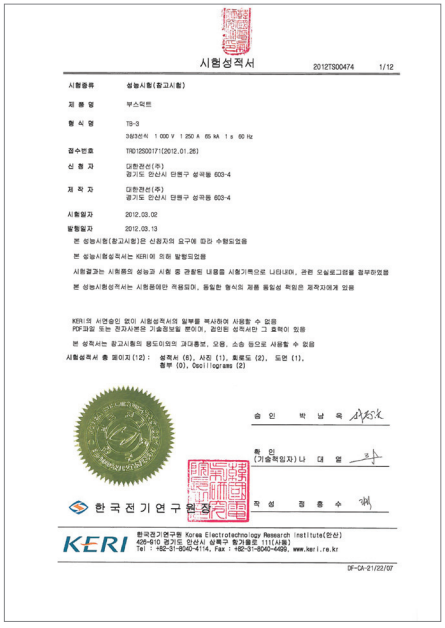
확 인 (기술책임자) 나 대 열

작 성 정 홍 수

한국전기연구원장

KERI 한국전기연구원 Korea Electrotechnology Research Institute
626-170 경기도 안산시 상록구 청기룡로 111
Tel : +82-31-8040-4114, Fax : +82-31-8040-4499, www.keri.re.kr

DF-CA-21/22/05



시험성적서

2012TS00474 1/12

시험종류 성능시험(참고시험)

제 품 명 부스덕트

형 식 명 TB-3
3Ø3선식 1 000 V 1 250 A 65 kA 1 s 60 Hz

접수번호 TR(1)250017(2012.01.26)

신 청 자 대한전선(주)
경기도 안산시 단원구 성곡동 603-4

제 작 자 대한전선(주)
경기도 안산시 단원구 성곡동 603-4

시험일자 2012.03.02

발행일자 2012.03.13

본 성능시험(참고시험)은 신청자의 요구에 따라 수행되었음

본 성능시험성적서는 KERI에 의해 발행되었음

시험결과는 시험품의 성능과 시험 중 관찰된 내용을 시험기록으로 나타내며, 관련 오실로그램을 첨부하였음

본 성능시험성적서는 시험품에만 적용되며, 동일한 형식의 제품 동일성 확인은 제작자에게 있음

KERI의 서면승인 없이 시험성적서의 일부를 복사하여 사용할 수 없음
PDF파일 또는 전자서명본 기술정보일 뿐이며, 제본되어 공인된 성적서만 그 효력이 있음

본 성적서는 참고시험의 범위이외의 과다충분, 오용, 소송 등으로 사용할 수 없음

시험성적서 총 페이지(12) : 성적서 (6), 사진 (1), 회로도 (2), 도면 (1), 흡부 (0), Oscillograms (2)

승 인 박 남 욱

확 인 (기술책임자) 나 대 열

작 성 정 홍 수

한국전기연구원장

KERI 한국전기연구원 Korea Electrotechnology Research Institute(한산)
626-610 경기도 안산시 상록구 청기룡로 111(사동)
Tel : +82-31-8040-4114, Fax : +82-31-8040-4499, www.keri.re.kr

DF-CA-21/22/07



별지 제3호갑

시 험 성 적 서

한국화재보험협회 부설
방 재 시 험 연 구 원

성적서번호 : G2011-1335
페이지(총 13)

우) 469-881 경기도 여주군 가남면 삼석리 69-1 TEL 031-887-6600 FAX 031-887-6620

1. 의뢰인
○ 업체(기관)명 : 대한전선(주) 대표자 장희진, 손광호
○ 주 소 : 서울특별시 중구 회현동1가 194-15
○ 접수일자 : 2012. 3. 8.
2. 시험품목 : 저전압 개폐장치 및 제어장치 부속품
(모델명 : TB3 1600 AL, TB3 1600 CU)
3. 시험일자 : 2012. 3. 8
4. 시험장소 : 성능시험
5. 시험방법 : KS C IEC 60439-2의 8.2.15항 : 2008(가열온도, 열권대위치 : 의뢰자 제시)
6. 시험결과 : 하단에 표기

측정항목		시험결과		비 고
		시험체 A (TB3 1600 AL)	시험체 B (TB3 1600 CU)	
최고 상승온도	1시간	16 ℃	28 ℃	
	2시간	41 ℃	68 ℃	세부내용 : 시험내용참조
화염 발생 여부 (최초 작화 시간 - 화염 커짐 시간)		화염 발생 없음	화염 발생 없음	

* 이 성적서의 내용은 시험 의뢰인에 의해 제공된 시료에 한하며, 용도 이외의 사용을 금합니다.

확 인	시 험 자	승인자(기술책임자)
	성 명 : 황 남 웅 (서명)	성 명 : 최 동 호 (서명)

2012 년 3 월 일

한 국 화 재 보 험 협 회 부 설
방 재 시 험 연 구 원 장

※ 위 성적서는 광고, 소송 및 기타 법적요건 등 위 시험용도 이외로 사용할 수 없습니다.

1/13

FPD03-03A(1) 210×297mm



시 험 성 적 서

ktl 한국산업기술시험원
Korea Testing Laboratory
(우 157-718) 서울특별시 구로구 구로3동 222-13
(Tel: 02 860 1531, Fax: 02 860 1549)

성적서번호 : 2012-1455-135
페이지 (1)/(총 2)

1. 의 뢰 자
◦ 기 관 명 : 대한전선(주)
◦ 주 소 : 서울시 중구 회현동 1가 194-15
◦ 의뢰일자 : 2012. 02. 27

2. 시험성적서의 용도 : 품질관리용

3. 시험대상품목
◦ 제 품 명 : 부스덕트 (Busduct)
◦ 모 델 명 : AL-AL/TB way
◦ 제조자명 : 대한전선(주)
◦ 제조번호 : -

4. 시험기간 : 2012. 03. 02 ~ 2012. 03. 06

5. 시험방법 : IEC 60529:2001, KS C IEC 60529:2006

6. 시험환경 : 20.3 ℃, 37 %RH, 86~106 KPa

7. 시험결과 : IP54 (뒷면 참조)

비 고 : 1. 위 성적서는 의뢰자가 제출한 시료에 대한 시험결과이며,
2. 우리 원의 서면 동의 없이 전계 및 복사를 할 수 없습니다.

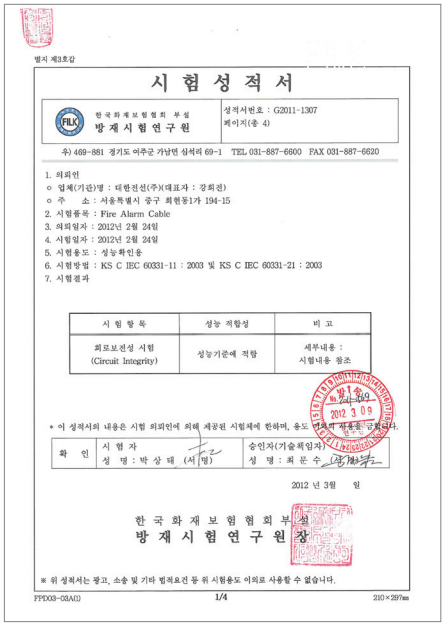
확 인	시험자	기술책임자
	성 명 : 김 [illegible] 호 (서명)	성 명 : 강 [illegible]

위 성적서는 국제시험소인정협력체(International Laboratory Accreditation Cooperation) 상호인정협정(Mutual Recognition Arrangement)에 서명한 한국인정기구(KOLAS)로부터 공인받은 분야에 대한 시험결과입니다.

2012. 03. 07

한국산업기술시험원장 (인)

FP202-01-02



별지 제3호갑

시 험 성 적 서

한국화재보험협회 부설
방 재 시 험 연 구 원

성적서번호 : G2011-1307
페이지(총 4)

우) 469-881 경기도 여주군 가남면 삼석리 69-1 TEL 031-887-6600 FAX 031-887-6620

1. 의뢰인
○ 업체(기관)명 : 대한전선(주)(대표자 : 장희진)
○ 주 소 : 서울특별시 중구 회현동1가 194-15
2. 시험품목 : Fire Alarm Cable
3. 의뢰일자 : 2012년 2월 24일
4. 시험일자 : 2012년 2월 24일
5. 시험용도 : 성능확인용
6. 시험방법 : KS C IEC 60331-11 : 2003 및 KS C IEC 60331-21 : 2003
7. 시험결과

시 험 항 목	성능 적합성	비 고
회로보전성 시험 (Circuit Integrity)	성능기준에 적합	세부내용 : 시험내용 참조

* 이 성적서의 내용은 시험 의뢰인에 의해 제공된 시험체에 한하며, 용도 이외의 사용을 금합니다.

확 인	시 험 자	승인자(기술책임자)
	성 명 : 박 상 태 (서명)	성 명 : 최 문 수 (서명)

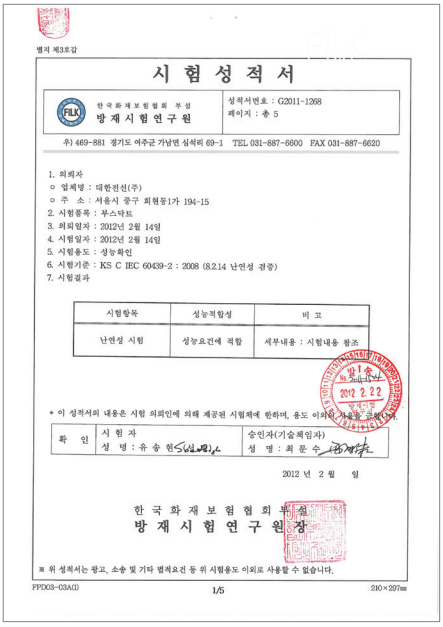
2012 년 3월 일

한 국 화 재 보 험 협 회 부 설
방 재 시 험 연 구 원 장

※ 위 성적서는 광고, 소송 및 기타 법적요건 등 위 시험용도 이외로 사용할 수 없습니다.

1/4

FPD03-03A(1) 210×297mm



별지 제3호갑

시 험 성 적 서

한국화재보험협회 부설
방 재 시 험 연 구 원

성적서번호 : G2011-1268
페이지 : 총 5

우) 469-881 경기도 여주군 가남면 삼석리 69-1 TEL 031-887-6600 FAX 031-887-6620

1. 의뢰자
○ 업체명 : 대한전선(주)
○ 주 소 : 서울시 중구 회현동1가 194-15
2. 시험품목 : 부스덕트
3. 의뢰일자 : 2012년 2월 14일
4. 시험일자 : 2012년 2월 14일
5. 시험용도 : 성능확인
6. 시험기준 : KS C IEC 60439-2 : 2008 (8.2.14 난연성 검증)
7. 시험결과

시험항목	성능적합성	비 고
난연성 시험	성능요건에 적합	세부내용 : 시험내용 참조

* 이 성적서의 내용은 시험 의뢰인에 의해 제공된 시험체에 한하며, 용도 이외의 사용을 금합니다.

확 인	시 험 자	승인자(기술책임자)
	성 명 : 유 승 현 (서명)	성 명 : 최 문 수 (서명)

2012 년 2 월 일

한 국 화 재 보 험 협 회 부 설
방 재 시 험 연 구 원 장

※ 위 성적서는 광고, 소송 및 기타 법적요건 등 위 시험용도 이외로 사용할 수 없습니다.

1/5

FPD03-03A(1) 210×297mm



ISO 9001
International Standards Certifications
ISO 9001:2008

품질경영시스템인증서

대한전선(주) 당진공장

충청남도 당진시 고대면 장항리 1110

ISC 는 위 조직의 인증범위에 대한 경영시스템이 상기 국제규격에 적합함을 인증합니다.

저전압 개폐장치 및 제어장치 부속품-부스바 트렁킹 설계 및 생산

IAF MEMBER OF MUTUAL RECOGNITION ARRANGEMENT

JAS-ANZ
www.jas-anz.org/register

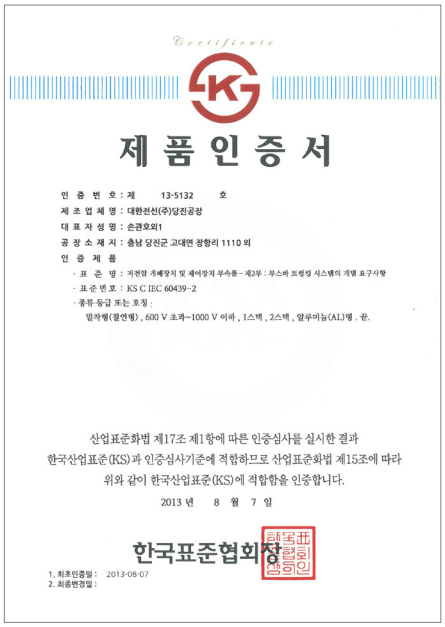
Tony Wilde
Group Chairman
ISC Pty Ltd, A.B.N. 45 071 810 949

인 증 번 호: QAC/R82/2205
등 록 일 자: 2013. 03. 05
만 료 일 자: 2016. 03. 05
변 경 일 자:

ISC Pty Ltd., Unit 2/10 Gladstone Road, Castle Hill NSW 2154, Sydney, Australia.

International Standards Certifications Pty. Ltd.

This certificate is valid until the Expiry Date on the condition that audits are conducted and paid for as per the Certification Agreement. Should this condition not be met, cancellation procedures will be initiated and the client will be removed from the JAS-ANZ register. This Certificate remains the property of International Standards Certifications Pty Ltd and must be returned upon request. It must not be altered in any way. Intentional misuse of this certificate will result in cancellation without prior notification.
Certificates can be checked through certcheck@isc-worldwide.com



Certificate

제 품 인 증 서

인 증 번 호 : 제 13-5132 호
제 조 업 체 명 : 대한전선(주)당진공장
대 표 자 성 명 : 손관호외1
공 장 소 재 지 : 충남 당진군 고대면 장항리 1110 외
인 증 제 품
· 표 준 명 : 저전압 개폐장치 및 제어장치 부속품 - 제2부 : 부스바 트렁킹 시스템의 개별 요구사항
· 표 준 번 호 : KS C IEC 60439-2
· 종류·등급 또는 호칭 :
밀착형(절연형), 600 V 초과~1000 V 이하, 1스텍, 2스텍, 알루미늄(AL)형, 끝.

산업표준화법 제17조 제1항에 따른 인증심사를 실시한 결과
한국산업표준(KS)과 인증심사기준에 적합하므로 산업표준화법 제15조에 따라
위와 같이 한국산업표준(KS)에 적합함을 인증합니다.

2013 년 8 월 7 일

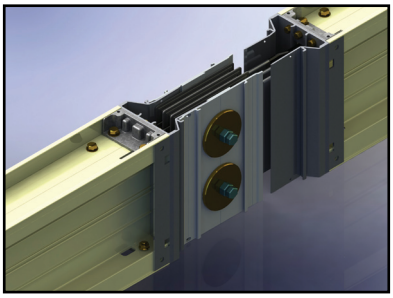
한국표준협회장

1. 최초인증일 : 2013-08-07
2. 최종변경일 :

BUSDUCT SYSTEM

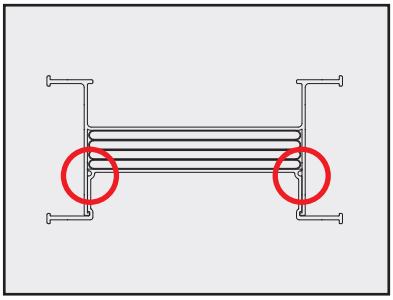
Key Features of T-Busway System

■ Key Features



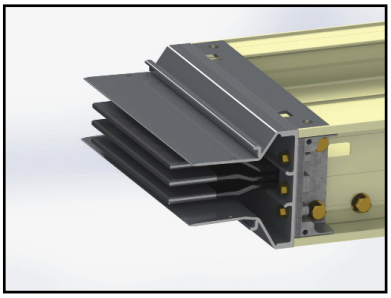
Easy Installation

· T-Busway System features the Joint Kit connection system for the easiest installation ever.



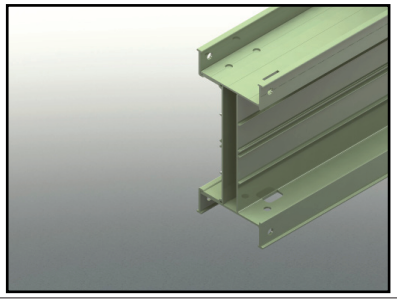
Closed Construction

· By using silicone gasket in the joint, T-busway system has a superior closed construction and IP65 rating without any additional enclosure.



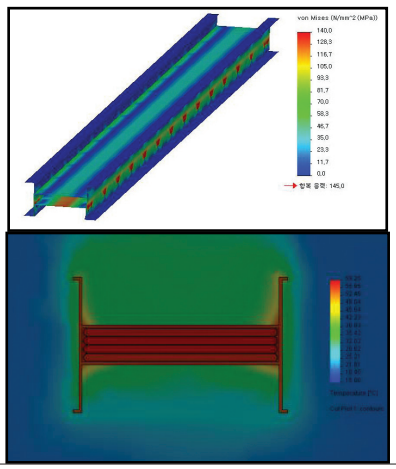
High Reliability of Conductor Contact Surface

· AL Busbar's surface is plated with copper after the galvanization, and again silver- or tin-plated to protect from Electrolytic corrosion and to enhance surface hardness.



Light Weight (Al Enclosure)

· The weight of the T-busway system has been decreased as much as 30% by using AL Profile enclosure. AL enclosure also offers superior heat radiation and ground conductivity.



TAIHAN's Optimum Design Simulation brings

· Optimum Design (Computer Aided Engineering Solution)
· Structural Strength Stability and Light Weight (Finite Element Method)
· Effective Heat Radiation (Computational Fluid Dynamics)

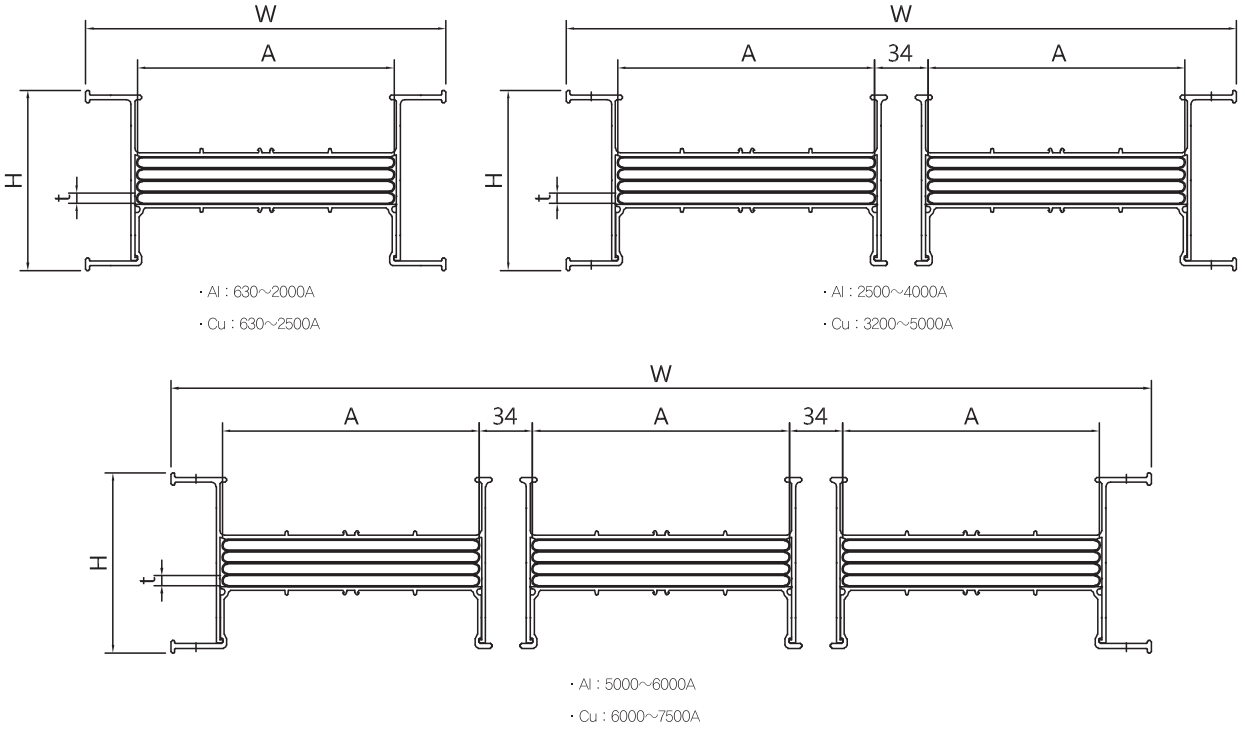
Specification of busduct

■ Specification

Section	Content	
Applied Standards	KS IEC 60439 – 1,2 , IEC 60439 – 1,2, KSC8450	
Rated Voltage	AC 1000V and less / DC 1500V and less	
Rated Current	Al Conductor	630~6000A
	Cu Conductor	630~ 7500A
Rated Frequency	50Hz / 60Hz	
Product Composition	3W , 4W , 5W	
Material Used	Al Conductor	A1060 (KSD 6762)
	Cu Conductor	C1100 (KSD 5530)
	Housing	A6063 (KSD 6759)
	Insulation	Polyester Film (Class B)
	Connection Coating	Tin / Ag
	Connection part	Joint Kit
IP Rating	Indoor Type	IP 54
	Outdoor Type	IP 65
Service Conditions	Ambient Temperature	40°C and less
	Humidity	97% and less
	Altitude	1000m and less

T-BUSWAY Physical Data

■ Cross-Sectional Diagram



- Al : 630~2000A
- Cu : 630~2500A

- Al : 2500~4000A
- Cu : 3200~5000A

- Al : 5000~6000A
- Cu : 6000~7500A

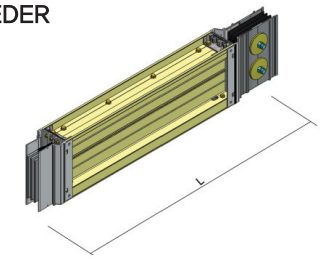
■ Dimensions and Weight

Capacity(A)		W Dimensions(mm)			H Dimensions(mm)			Weight(kg/m)		
		t	A	W	3W	4W	5W	3W	4W	5W
Al	630	6.35	42	108	107.5	115	130	6.1	6.8	7.4
	800		62	128				8.3	9.6	10.7
	1000		86	152				9.1	10.8	12.0
	1250		110	176				10.6	12.6	14.3
	1600		164	230				14.4	17.4	20.0
	2000		210	276				17.5	21.3	24.7
	2500		130*2	360				23.6	28.4	32.2
	3200		164*2	428				28.6	34.8	40.0
	3600		184*2	468				31.6	37.8	44.4
	4000		210*2	520				36	42.6	49.3
	5000		184*3	686				47.4	56.7	64.4
	6000		210*3	764				52.5	52.5	74.0
Cu	630	6.35	42	108				10.9	13.3	15.5
	800		42	108				10.9	13.3	15.5
	1000		57	123				13.9	17.2	20.3
	1250		73	139				16.9	21	25.1
	1600		110	176				24.4	29.5	35.6
	2000		145	211				30.3	39.5	46.7
	2500		195	261				39.6	50.7	61.6
	3200		110*2	320				48.8	59	71.2
	3600		130*2	360				53.6	67.6	82.0
	4000		145*2	390				60.6	79	93.4
	5000		195*2	490				79.2	101.4	123.3
	6000		145*3	569				90.9	118.5	140.0
	7500		195*3	719				118.8	152.1	184.9

T-BUSWAY Physical Data

■ Dimensions

FEEDER

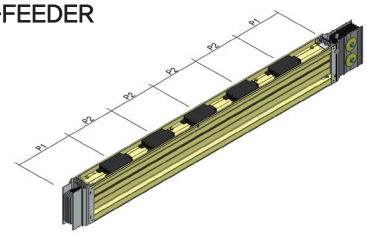


FEEDER

Unit mm

	Rating in Amps	L
Al	630~6000A	300 ~ 3000
Cu	630~7500A	300 ~ 3000

PI -FEEDER

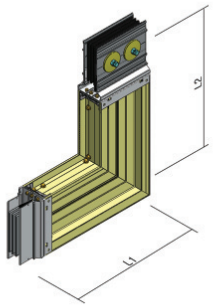


PI -FEEDER

Unit mm

	Rating in Amps	P1	P2
Al	630~6000A	500	500~2000
Cu	630~7500A	500	500~2000

V-ELBOW

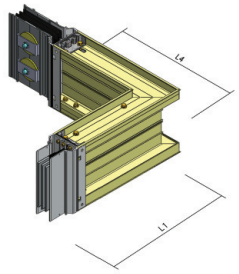


V-ELBOW

Unit mm

	Rating in Amps	L1	L2
Al	630~2000A		400 ~ 799
	2500~4000A		500 ~ 999
	5000~6000A		700 ~ 1399
Cu	630~2500A		400 ~ 799
	3200~5000A		500 ~ 999
	6000~7500A		600 ~ 1199

H-ELBOW

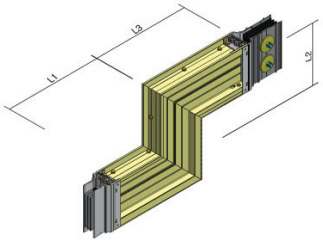


H-ELBOW

Unit mm

	Rating in Amps	L1	L2
Al	630~6000A	300 ~ 900	
Cu	630~7500A	300 ~ 900	

V-OFFSET



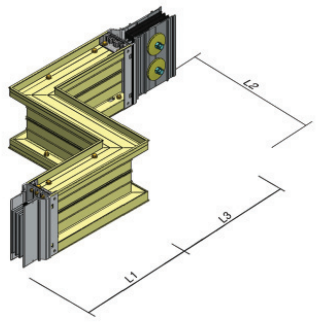
V-OFFSET

Unit mm

	Rating in Amps	L1	L2	L3
Al	630~2000A	400~799	200~500	400~799
	2500~4000A	500~999	200~500	500~999
	5000~6000A	700~1399	200~500	700~1399
Cu	630~2500A	400 ~ 799	200~500	400 ~ 799
	3200~5000A	500 ~ 999	200~500	500 ~ 999
	6000~7500A	700~1399	200~500	700 ~ 1399

■ Dimensions

H-OFFSET

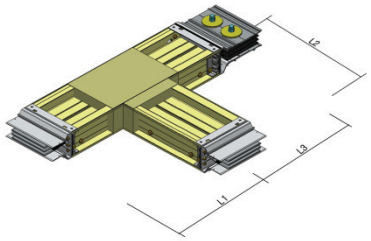


H-OFFSET

Unit mm

	Rating in Amps	L1	L2	L3
AL	630~2000A	300~900	300~500	300~900
	2500~4000A	300~900	300~500	300~900
	5000~6000A	300~900	300~500	300~900
CU	630~2500A	300~900	300~500	300~900
	3200~5000A	300~900	300~500	300~900
	6000~7500A	300~900	300~500	300~900

V-TEE

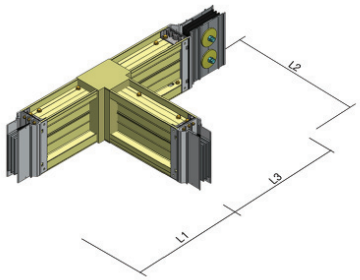


V-TEE

Unit mm

	Rating in Amps	L1	L2	L3
AL	630~2000A	400~799	400~799	400~799
	2500~4000A	500~999	500~999	500~999
	5000~6000A	700~1399	700~1399	700~1399
CU	630~2500A	400~799	400~799	400~799
	3200~5000A	500~999	500~999	500~999
	6000~7500A	700~1399	700~1399	700~1399

H-TEE

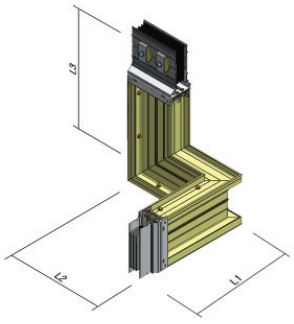


H-TEE

Unit mm

	Rating in Amps	L1	L2	L3
AL	630~2000A	300~900	300~900	300~900
	2500~4000A	300~900	300~900	300~900
	5000~6000A	300~900	300~900	300~900
CU	630~2500A	300~900	300~900	300~900
	3200~5000A	300~900	300~900	300~900
	6000~7500A	300~900	300~900	300~900

COMBINATION



COMBINATION

Unit mm

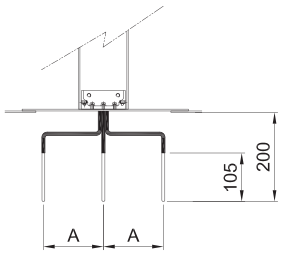
	Rating in Amps	L1	L2	L3
AL	630~2000A	300~900	300~900	400~799
	2500~4000A	300~900	300~900	500~999
	5000~6000A	300~900	300~900	700~1399
CU	630~2500A	300~900	300~900	400~799
	3200~5000A	300~900	300~900	500~999
	6000~7500A	300~900	300~900	700~1399

T-BUSWAY Physical Data

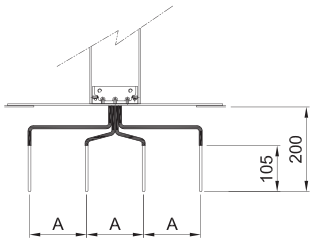
■ FLANGED END

· FLANGE END PITCH

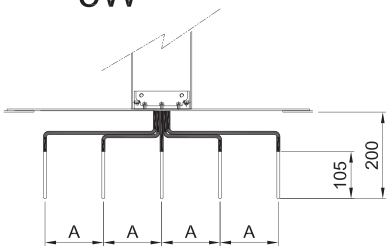
3W



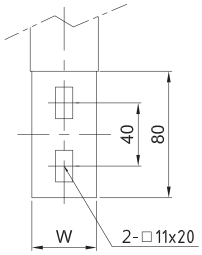
4W



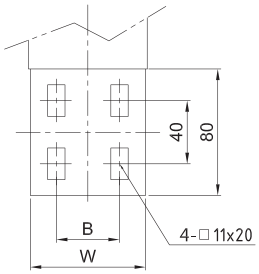
5W



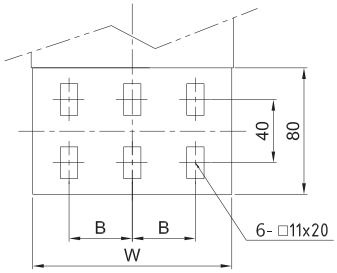
· FLANGE END HOLE PITCH



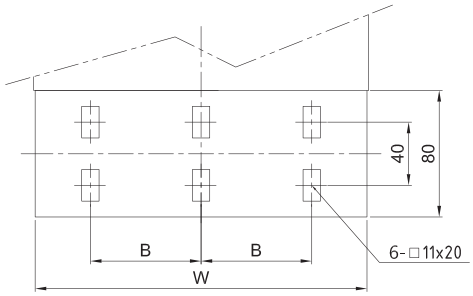
① BAR WIDTH 42~62mm



② BAR WIDTH 73~110mm



③ BAR WIDTH 130~145mm



④ BAR WIDTH 164~210mm

■ Physical Data

Unit mm

	Rating in Amps(A)	Conductors t	Conductors W	Distance of Flanged A	Distance of Hole B	Fig
Al	630	6.35	42	100	-	①
	800		62		-	
	1000		86		40	②
	1250		110		50	
	1600		164		60	④
	2000		210		70	
	2500		130*2	130	40	③
	3200		164*2		60	④
	3600		184*2		60	
	4000		210*2		70	
	5000		184*3		60	
	6000		210*3		70	

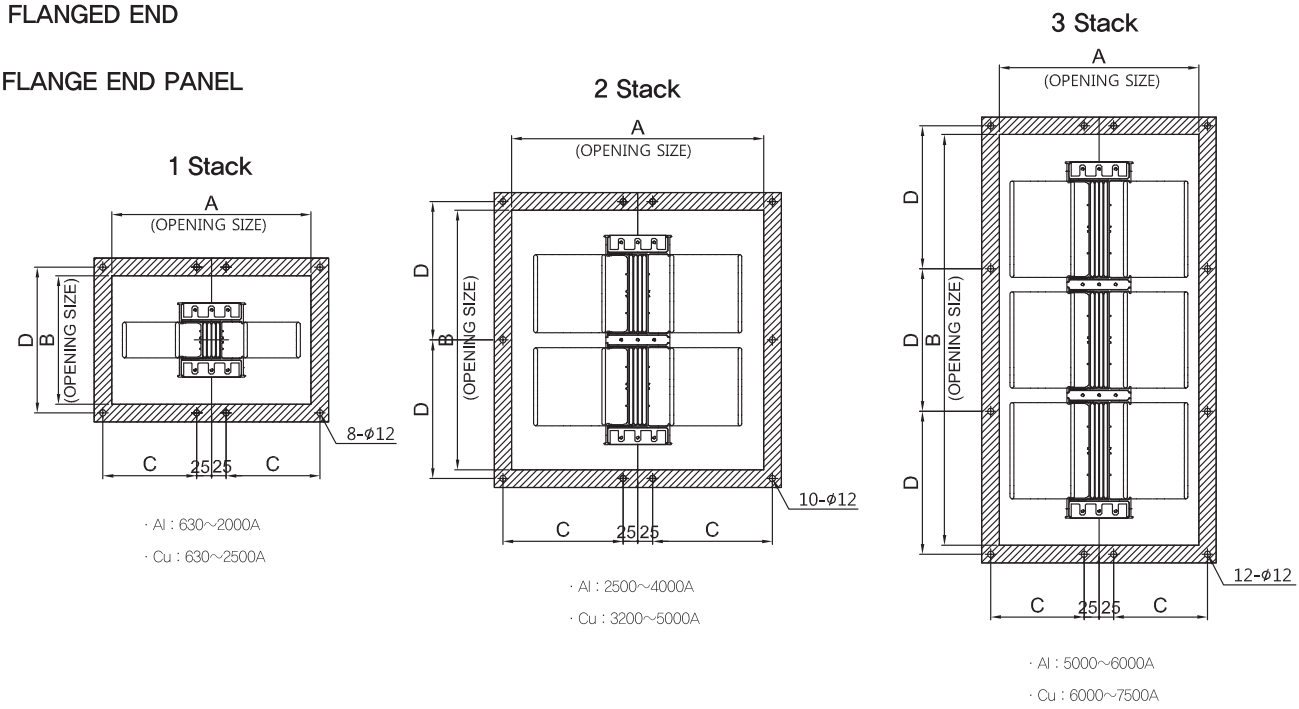
Unit mm

	Rating in Amps(A)	Conductors t	Conductors W	Distance of Flanged A	Distance of Hole B	Fig
Cu	630	6.35	42	100	-	①
	800		42		-	
	1000		57		-	
	1250		73		40	②
	1600		110		50	
	2000		145		50	③
	2500		195		70	④
	3200		110*2	130	50	②
	3600		130*2		40	③
	4000		145*2		50	
	5000		195*2		70	④
	6000		145*3		50	③
	7500		195*3		70	④

T-BUSWAY Physical Data

■ FLANGED END

· FLANGE END PANEL



■ Physical Data

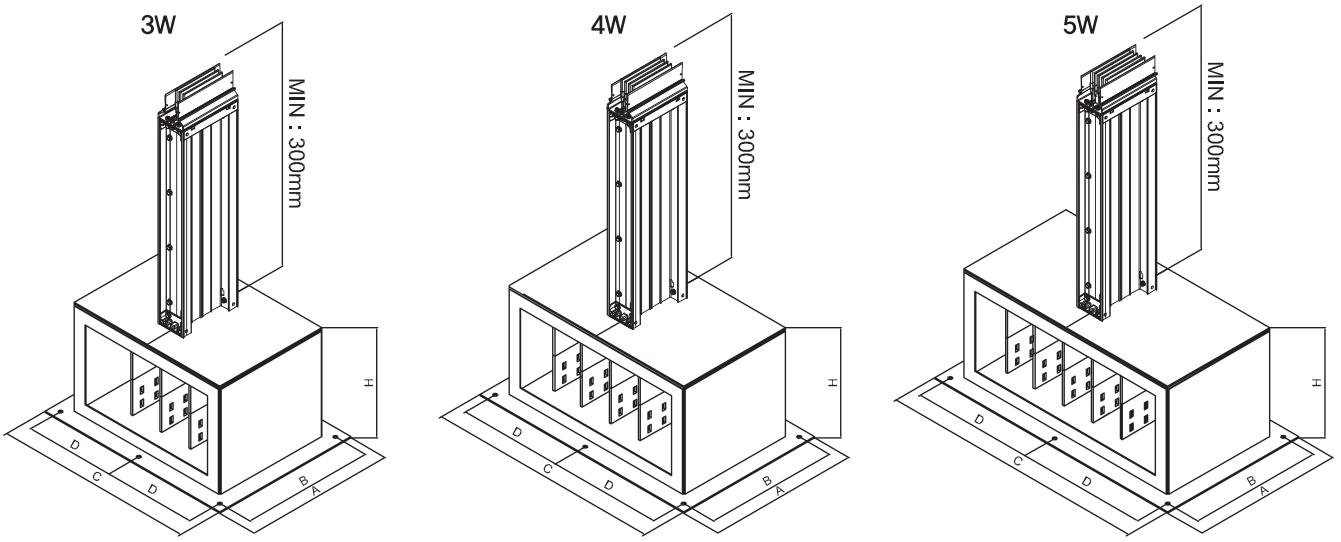
Unit mm

Rating in Amps A		3W				4W				5W			
		A	B	C	D	A	B	C	D	A	B	C	D
Al	630	240	125	110	155	340	125	160	155	440	125	210	155
	800		146		176		146		176		146		176
	1000		170		200		170		200		170		200
	1250		192		222		192		222		192		222
	1600		248		278		248		278		248		278
	2000		294		324		294		324		294		324
	2500	300	371	140	200	430	371	205	200	560	371	270	200
	3200		447		239		447		239		447		239
	3600		487		258		487		258		487		258
	4000		539		284		539		284		539		284
	5000		705		245		705		245		705		245
	6000		783		271		783		271		783		271
Cu	630	240	125	110	155	340	125	160	155	440	125	210	155
	800		125		155		125		155		125		155
	1000		141		171		141		171		141		171
	1250		157		187		157		187		157		187
	1600		192		222		192		222		192		222
	2000		229		259		229		259		229		259
	2500		279		309		279		309		279		309
	3200	300	335	140	182	430	335	205	182	560	335	270	182
	3600		371		200		371		200		371		200
	4000		409		220		409		220		409		220
	5000		509		270		509		270		509		270
	6000		588		206		588		206		588		206
	7500		738		256		738		256		738		256

T-BUSWAY Physical Data

■ FLANGED END

· FLANGE END BOX



■ Physical Data

Unit mm

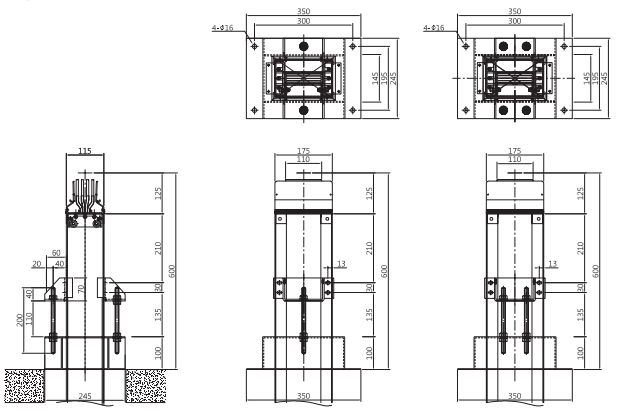
	Rating in Amps A	Stacks	3W					4W					5W				
			A	B	C	D	H	A	B	C	D	H	A	B	C	D	H
Al	630	1	347	297	410	180	270	347	297	510	230	270	347	297	580	280	270
	800		379	329				379	329				379	329			
	1000		392	342				392	342				392	342			
	1250		414	364				414	364				414	364			
	1600		470	420				470	420				470	420			
	2000		516	466				516	466				516	466			
	2500	2	592	542	470	210		592	542	600	275		592	542	670	340	
	3200		668	618				668	618				668	618			
	3600		708	658				708	658				708	658			
	4000		760	710				760	710				760	710			
	5000	3	926	876				926	876				926	876			
	6000		1004	954				1004	954				1004	954			
Cu	630	1	347	297	410	180		347	297	510	230		347	297	580	280	
	800		347	297				347	297				347	297			
	1000		363	313				363	313				363	313			
	1250		379	329				379	329				379	329			
	1600		414	364				414	364				414	364			
	2000		451	401				451	401				451	401			
	2500		501	451				501	451				501	451			
	3200	2	556	506	470	210		556	506	600	275		556	506	670	340	
	3600		592	542				592	542				592	542			
	4000		630	580				630	580				630	580			
	5000		730	680				730	680				730	680			
	6000	3	809	759				809	759				809	759			
	7500		959	909				959	909				959	909			

T-BUSWAY Physical Data

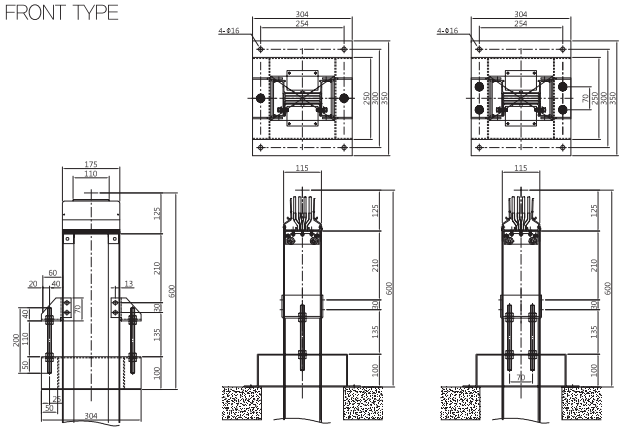
■ HANGER

· Rigid Hanger

SIDE TYPE



FRONT TYPE

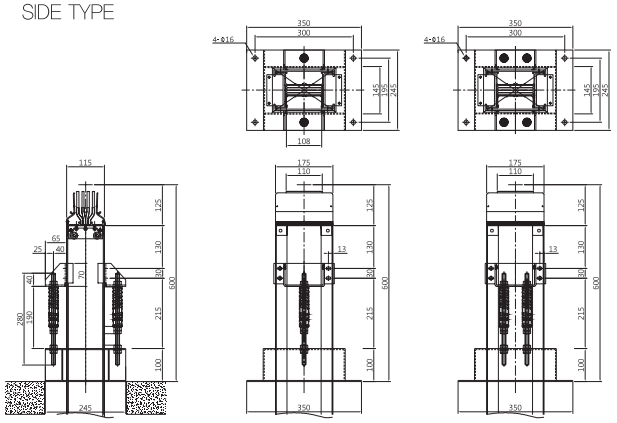


SINGLE · Al : 630~1600A
· Cu : 630~1250A

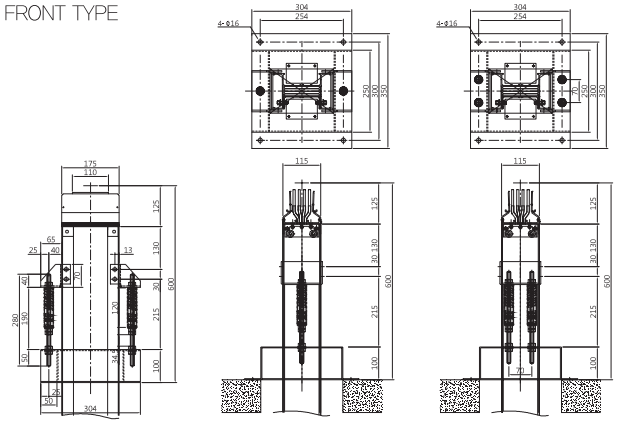
DOUBLE · Al : 2000~6000A
· Cu : 1600~7500A

· Spring Hanger

SIDE TYPE



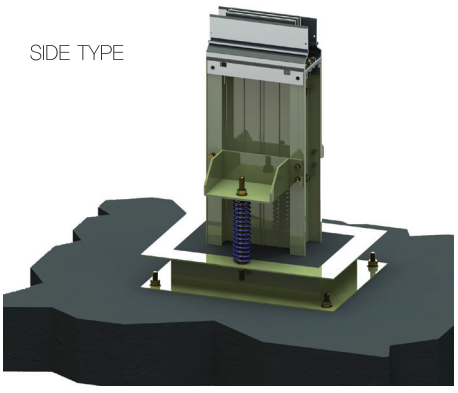
FRONT TYPE



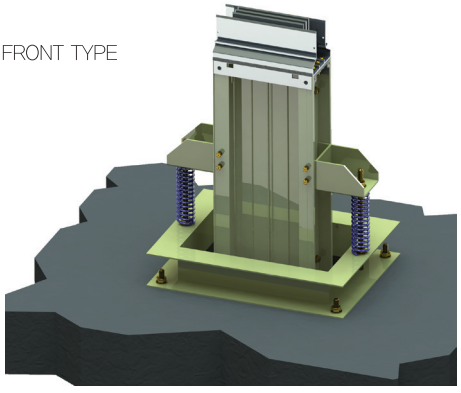
SINGLE · Al : 630~1600A
· Cu : 630~1250A

DOUBLE · Al : 2000~6000A
· Cu : 1600~7500A

SIDE TYPE



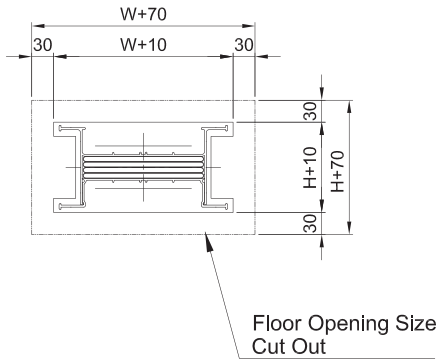
FRONT TYPE

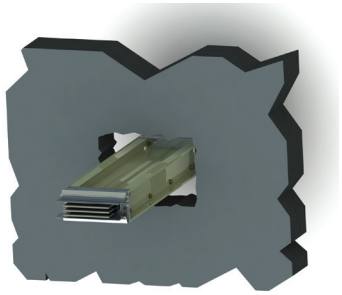


T-BUSWAY Physical Data

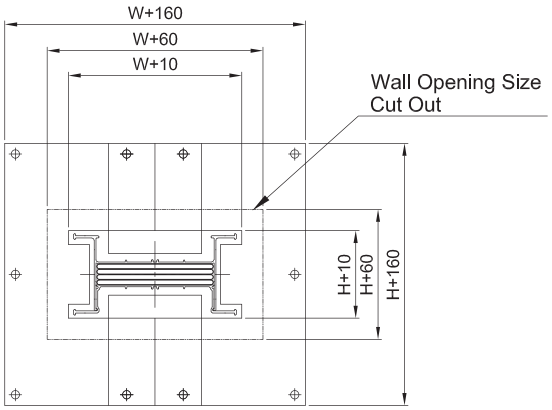
■ FLANGE

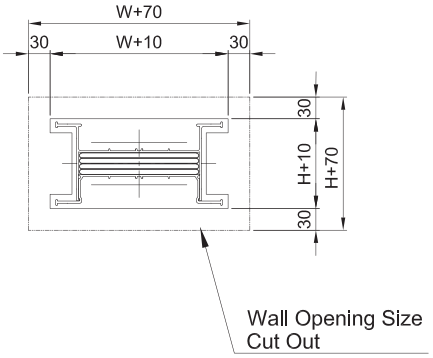
· FLOOR

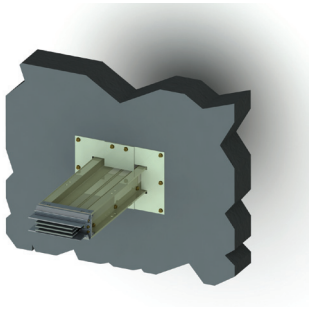




· WALL







■ Physical Data

Rating in Amps A		W Dimensions (mm)	H Dimensions(mm)			Rating in Amps (A)		W Dimensions (mm)	H Dimensions(mm)		
			3W	4W	5W				3W	4W	5W
	630	108					600	108			
	800	128					800	108			
	1000	152					1000	123			
	1250	176					1250	139			
	1600	230					1600	176			
	2000	276					2000	211			
Al	2500	360	107.5	115	130	Cu	2500	261	107.5	115	130
	3200	428					3200	320			
	3600	468					3600	360			
	4000	520					4000	390			
	5000	686					5000	490			
	6000	764					6000	567			
	7500	-					7500	719			

T-BUSWAY Key Features

■ Key Features

· Short Circuit Strength

Temperature Rise 95℃

Conductors	Rating in Amps (A)	Short-current RMS (kA/1sec)	Conductors Dimensions (mm)	Impedance (×10⁻⁵Ω/m)		
				R	X	Z
Al	630	25	6.35× 42×1	14.510	3.568	14.942
	800	37	6.35× 62×1	9.847	2.630	10.192
	1000	50	6.35× 86×1	7.167	2.005	7.442
	1250	65	6.35× 110×1	5.675	1.622	5.902
	1600	95	6.35× 164×1	3.912	1.138	4.074
	2000	95	6.35× 210×1	3.141	0.900	3.267
	2500	140	6.35× 130×2	2.428	0.716	2.531
	3200	180	6.35× 164×2	1.956	0.581	2.040
	3600	180	6.35× 184×2	1.765	0.523	1.841
	4000	180	6.35× 210×2	1.570	0.458	1.635
	5000	200	6.35× 184×3	1.176	0.351	1.227
	6000	200	6.35× 210×3	1.047	0.308	1.091

Conductors	Rating in Amps (A)	Short-current RMS (kA/1sec)	Conductors Dimensions (mm)	Impedance (×10⁻⁵Ω/m)		
				R	X	Z
Cu	630	37	6.35× 42×1	9.035	3.568	9.714
	800	37	6.35× 42×1	9.035	3.568	9.714
	1000	50	6.35× 57×1	6.707	2.814	7.273
	1250	65	6.35× 73×1	5.304	2.300	5.781
	1600	95	6.35× 110×1	3.625	1.622	3.971
	2000	100	6.35× 145×1	2.845	1.271	3.116
	2500	100	6.35× 195×1	2.198	0.973	2.404
	3200	180	6.35× 110×2	1.813	0.830	1.994
	3600	180	6.35× 130×2	1.566	0.716	1.722
	4000	190	6.35× 145×2	1.423	0.649	1.564
	5000	190	6.35× 195×2	1.099	0.496	1.206
	6000	200	6.35× 145×3	0.948	0.437	1.044
	7500	200	6.35× 195×3	0.733	0.333	0.805

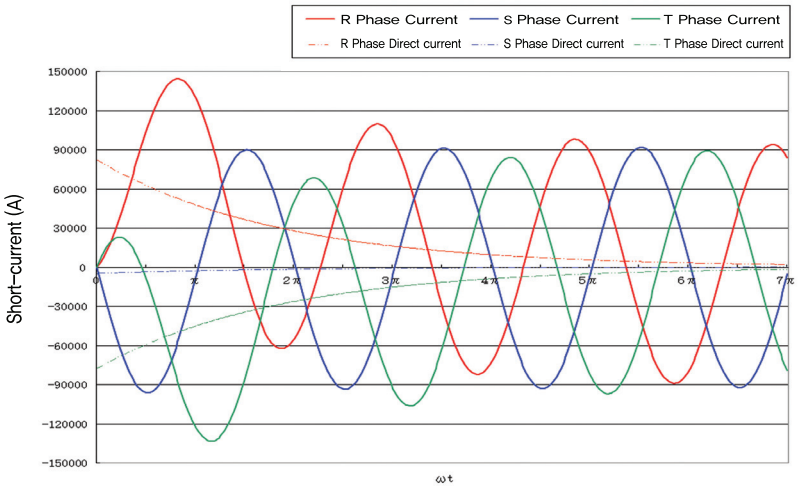
· Voltage Drop

V/100m , Temperature Rise 95℃

Conductors	Rating in Amps (A)	POWER FACTOR (%)					
		0.5	0.6	0.7	0.8	0.9	1.0
Al	630	11.29	12.61	13.86	15	15.95	15.83
	800	9.98	11.10	12.15	13.1	13.87	13.64
	1000	9.21	10.23	11.17	12.01	12.69	12.41
	1250	9.18	10.18	11.11	11.94	12.59	12.29
	1600	8.52	9.03	9.84	10.57	11.13	10.84
	2000	8.14	9.02	9.57	10.28	11.15	10.88
	2500	7.94	8.79	9.89	10.27	10.81	10.51
	3200	8.21	9.08	9.88	10.61	11.16	10.84
	3600	8.33	9.21	10.03	10.76	11.33	11.01
	4000	8.19	9.06	9.88	10.61	11.17	10.88
	5000	7.72	8.54	9.30	9.97	10.49	10.18
	6000	8.21	9.09	9.90	10.63	11.19	10.88

Conductors	Rating in Amps (A)	POWER FACTOR (%)					
		0.5	0.6	0.7	0.8	0.9	1.0
Cu	630	8.30	9.03	9.68	10.22	10.57	9.86
	800	10.54	11.47	12.29	12.98	12.42	12.52
	1000	10.03	10.87	11.61	12.22	12.58	11.62
	1250	10.05	10.87	11.59	12.17	12.51	11.48
	1600	8.92	9.62	10.24	10.73	11.00	10.05
	2000	8.74	9.44	10.04	10.53	10.79	9.86
	2500	8.41	9.08	9.67	10.14	10.40	9.52
	3200	9.01	9.71	10.34	10.80	11.05	10.05
	3600	8.75	9.43	10.02	10.49	10.73	9.76
	4000	8.82	9.51	10.11	10.58	10.83	9.86
	5000	8.48	9.15	9.73	10.19	10.44	9.52
	6000	8.86	9.54	10.14	10.61	10.85	9.85
	7500	8.51	9.17	9.75	10.21	10.46	9.52

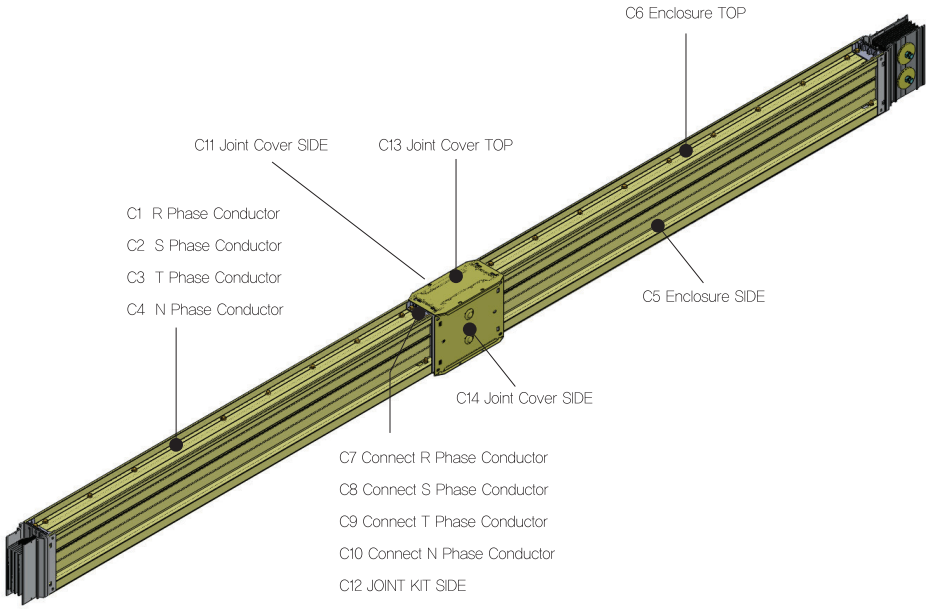
· 3-Phase Short Circuit Electromagnetic Force

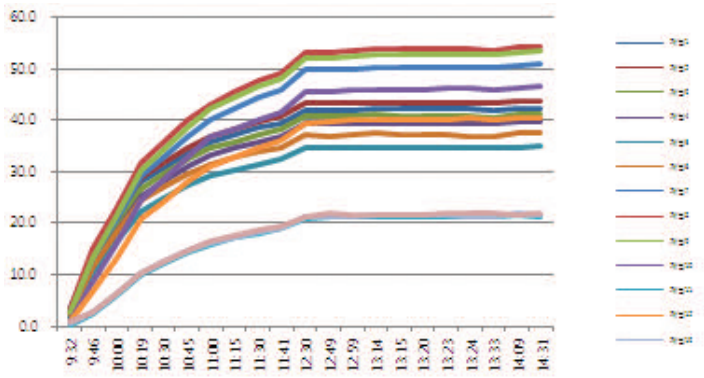


T-BUSWAY Key Features

■ Temperature Rise

· Sensor Location

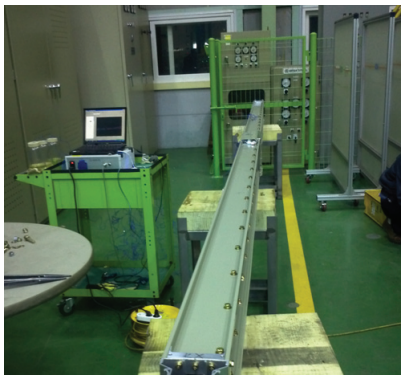


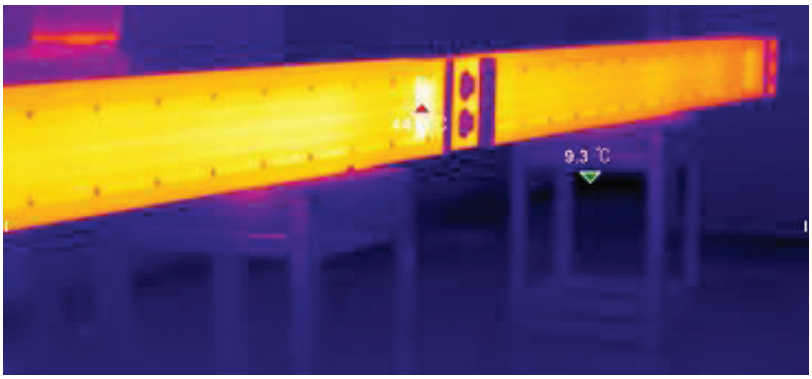


Rated Current: 1600A , Ambient Temperature: 18℃

Position	Temperature℃	Position	Temperature℃
C1	60.8	C7	68.8
C2	62.1	C8	72.3
C3	59.5	C9	71.4
C4	58.1	C10	64.5
C5	53.1	C11	39.4
C6	55.7	C12	58.6

· Temperature Rise Allowable
Enclosure ΔT 55 ℃, Connect Conductor ΔT 65 ℃
* Applicable Standard (Enclosure) KS IEC-60439-1,2
(Conductor) JISC 8364





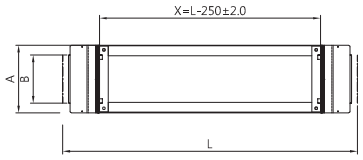
BUSDUCT SYSTEM

T-BUSWAY Installation Cautions

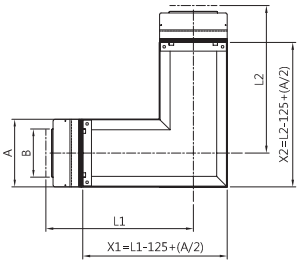
■ Actual Measurement Procedure

· 1 Stack

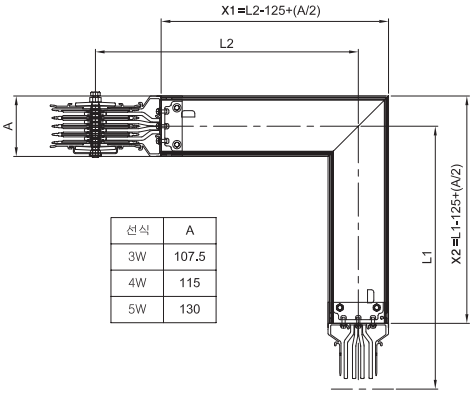
L : Dimensions



FEEDER



V.ELBOW

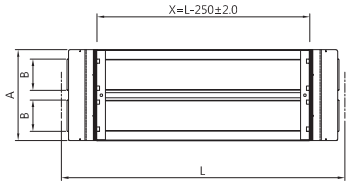


선식	A
3W	107.5
4W	115
5W	130

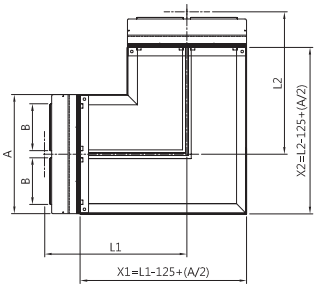
H.ELBOW

· 2 Stack

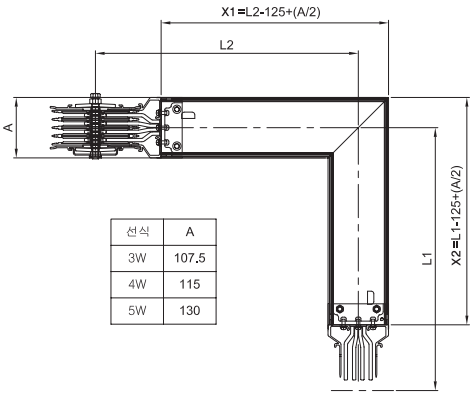
L : Dimensions



FEEDER



V.ELBOW

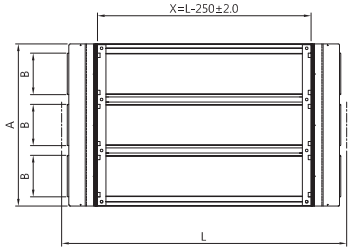


선식	A
3W	107.5
4W	115
5W	130

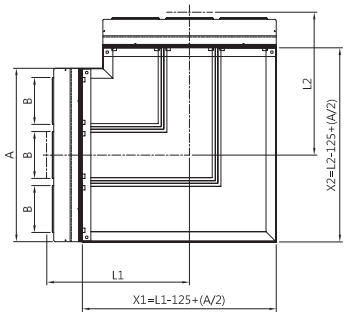
H.ELBOW

· 3 Stack

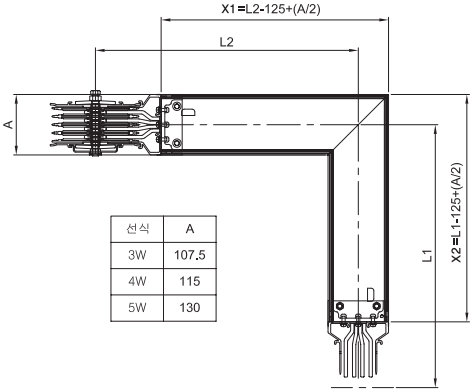
L : Dimensions



FEEDER



V.ELBOW

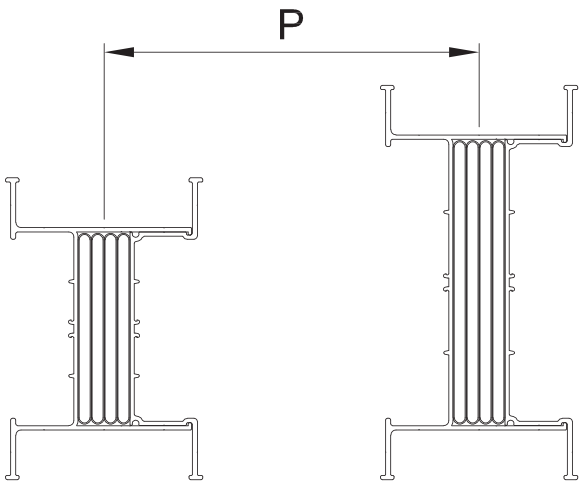


선식	A
3W	107.5
4W	115
5W	130

H.ELBOW

T-BUSWAY Installation Cautions

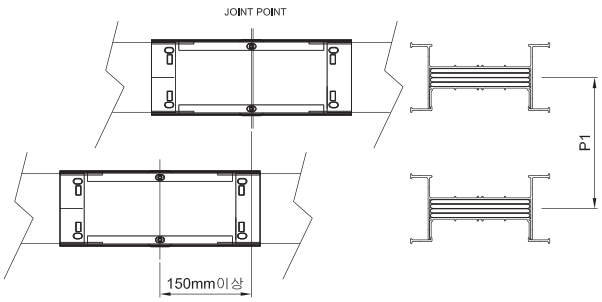
3W and 4W's P position may be identified as following diagram
(Center Point from the Enclosure)



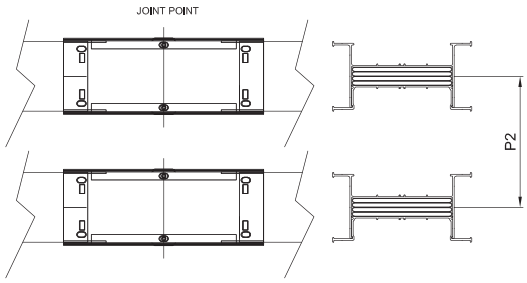
■ Multiple Installation Space

· Horizontal Installation

P1



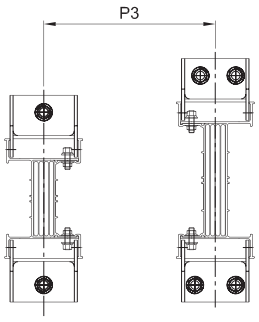
P2



· Vertical Installation

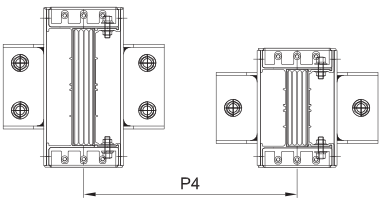
P3

When installing FRONT TYPE HANGER



P4

When installing SIDE TYPE HANGER



· Multiple installation P sizes

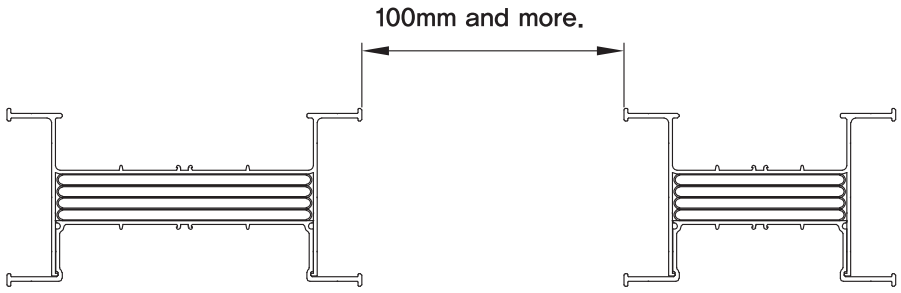
Unit mm

section	3W – 3W				3W – 4W				4W – 4W			
	Horizontal Part		Vertical Part		Horizontal Part		Vertical Part		Horizontal Part		Vertical Part	
	P1	P2	P3	P4	P1	P2	P3	P4	P1	P2	P3	P4
	220	260	300	380	260	300	240	400	270	320	370	410

T-BUSWAY Installation Cautions

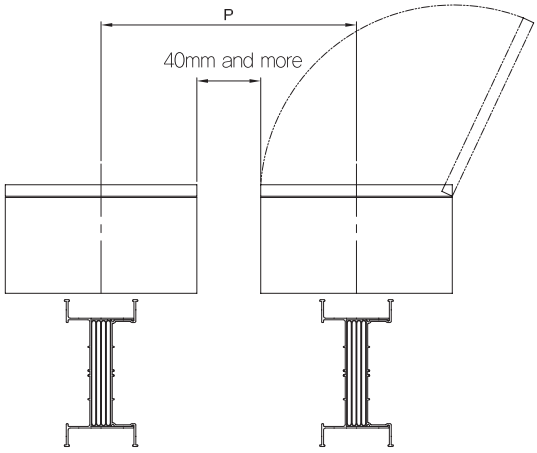
■ Horizontal Multiple Installation Space

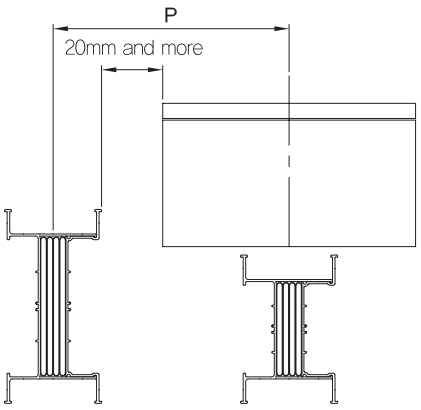
· Distance between the housings is minimum 100mm and more.



■ PH-BOX

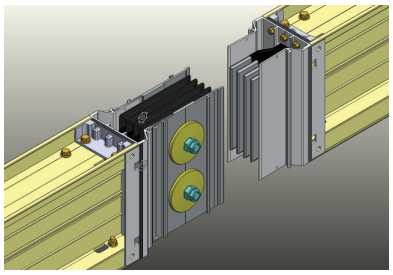
P value shall be determined so that there's no interference when PH box installing and disassembling.



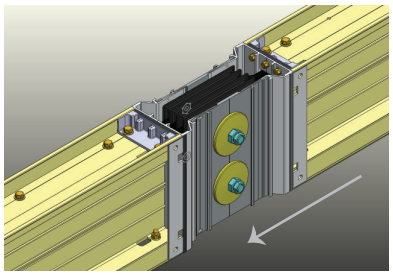


T-BUSWAY Installation Procedure

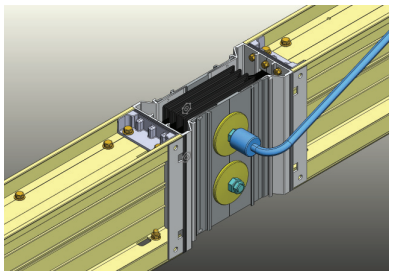
■ T-BUSWAY Installation Procedure



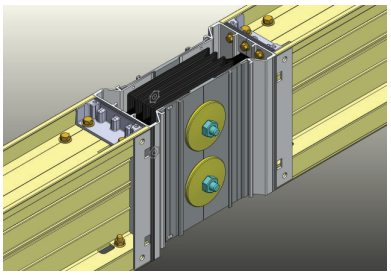
1. Make sure the contact surface is clean and check the alignment of the both parts.



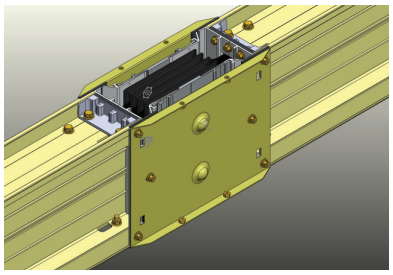
2. Push the stopper on the wings to contact with the end of the joint kit.



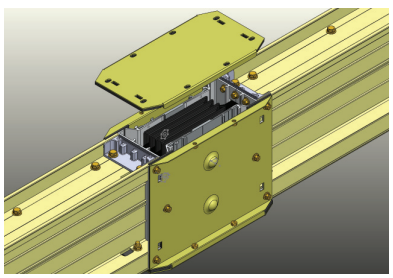
3. Align both sides and shear off the double-headed bolt by a wrench.



4. Make sure the head of the double-headed bolt is broken off.



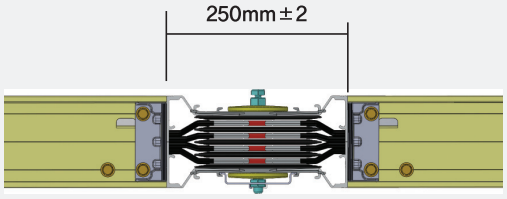
5. Connect the side cover to the body with M6 bolt.



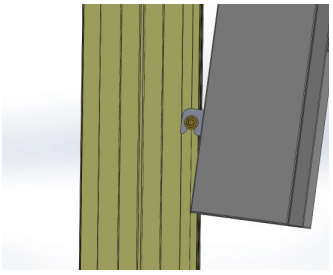
6. Connect the upper and lower cover to the body with M6 bolt.

■ Connection Dimensions

When the Joint Kit and the stopper of the wings meet, the following dimensions can be measured



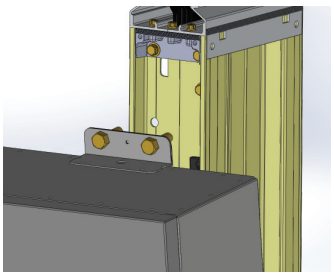
■ PH-BOX Installation Procedure



1. Check the brush and the terminal are clean.

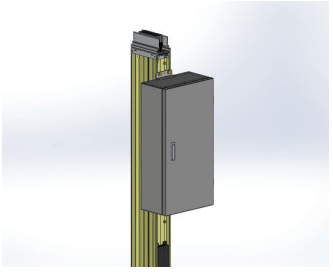
2. Fix the bottom hook of the product to the body.

3. M8 bolt installed on the top of the PH box has to be secured on the top of the body's molded part.



4. Make sure the terminal is safely secured into the brush.

5. Push the box hard inside after PH box's brush and the terminal of the product are aligned.



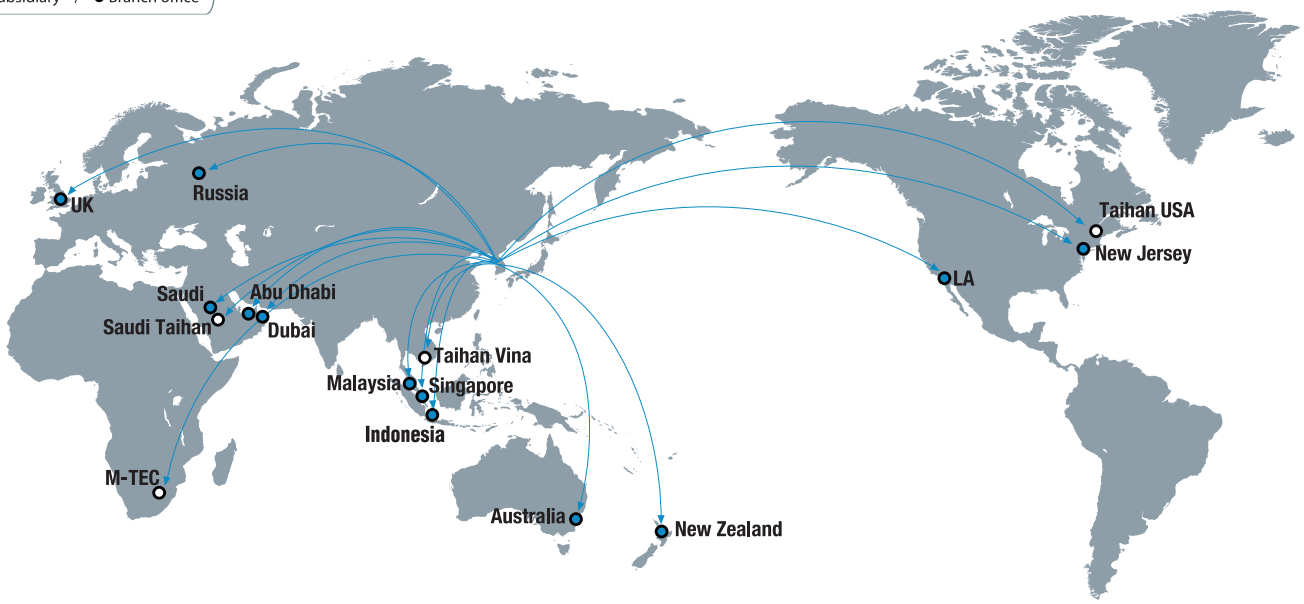
6. The bolts of the box's upper part and inside the bottom hook shall be secured to the body tightly.

Cautions

- Check if any interference has occurred to the box cover before installation
- During the live wire status, do not touch the branch terminal
- Clean the surface before installation

APPENDIX
Global Network

Subsidiary / Branch office



Overseas Subsidiaries

M-TEC
1 Steel Rd, Peacehaven, Vereeniging, 1939, Gauteng, South Africa
TEL: +27-16-450-8220 FAX: +27-16-450-8202
E-mail: info@m-tec.co.za

Taihan Vina
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TEL: +84-8-3518-0786 FAX: +84-8-3518-0785
E-mail: ysshin@taihancable.com

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12016 Telegraph Rd., Suite 200 Santa Fe Springs, CA 90670 USA
TEL: +971-2-627-1847 FAX: +971-2-627-1843
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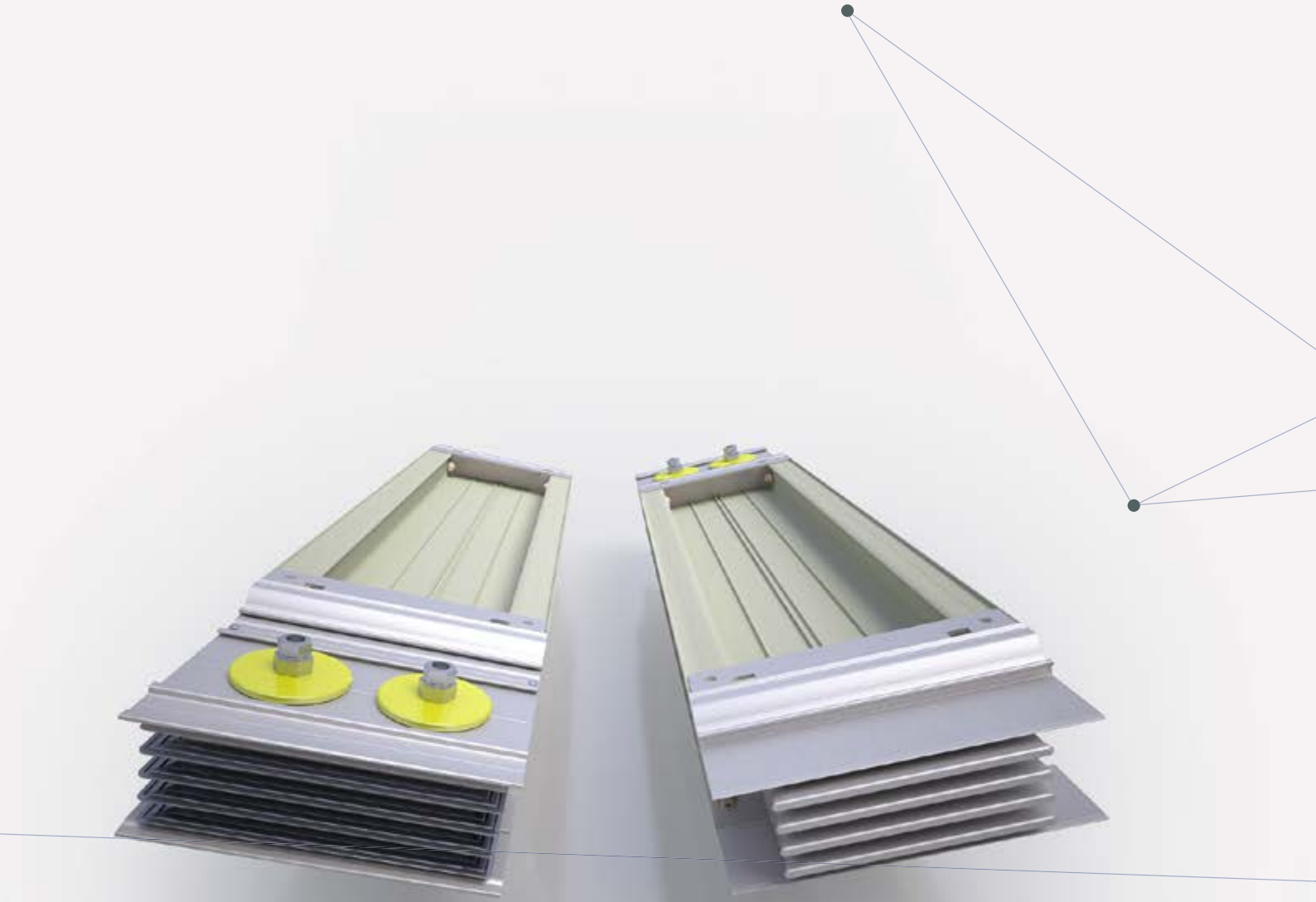
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