TF-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.

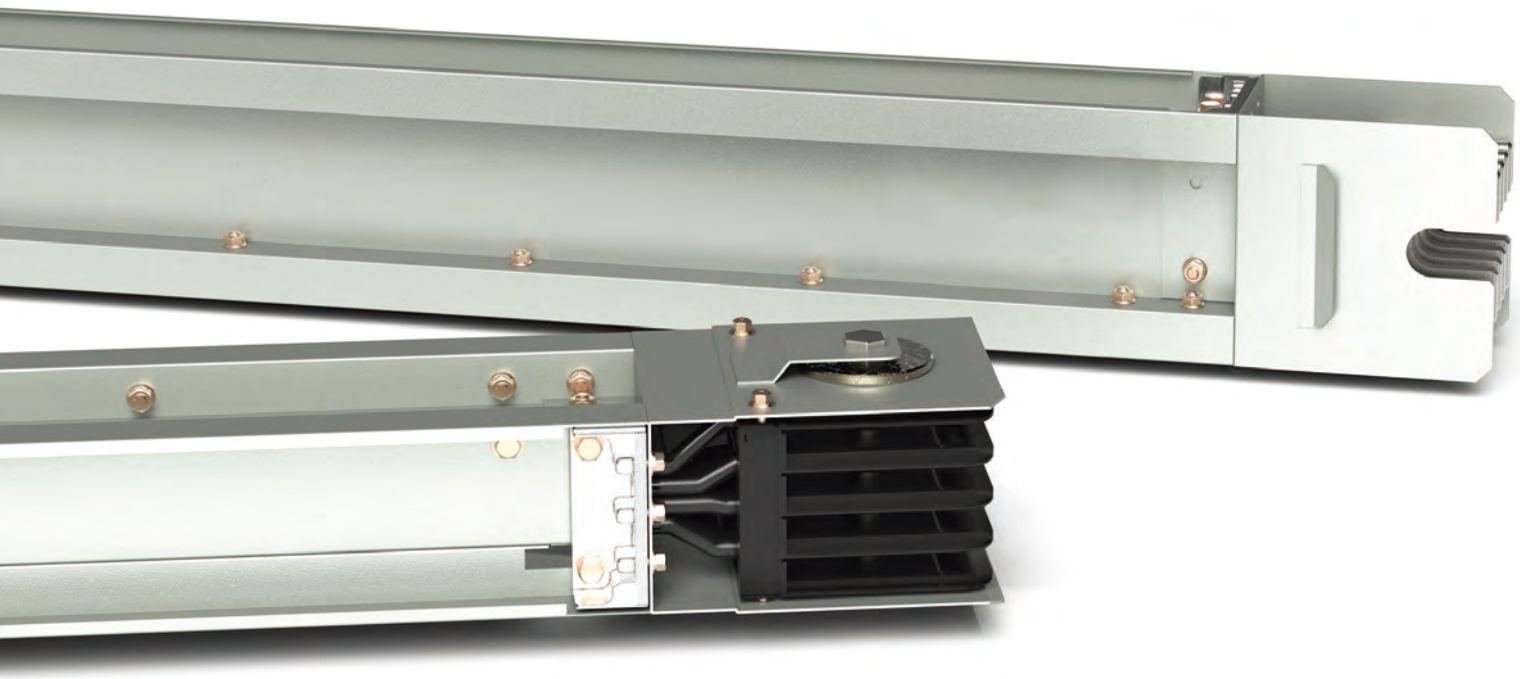
Taihan establishes the foundation of electric and communication industry during a half century, and has developed world-class technologies and business know-how. Taihan, as a company that provides optimized products and best services to meet the customer's needs, will create the future of cable & solution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

BUSDUCT SYSTEM
TF-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.

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

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



BUSDUCT SYSTEM

TF-BUSWAY

Contents

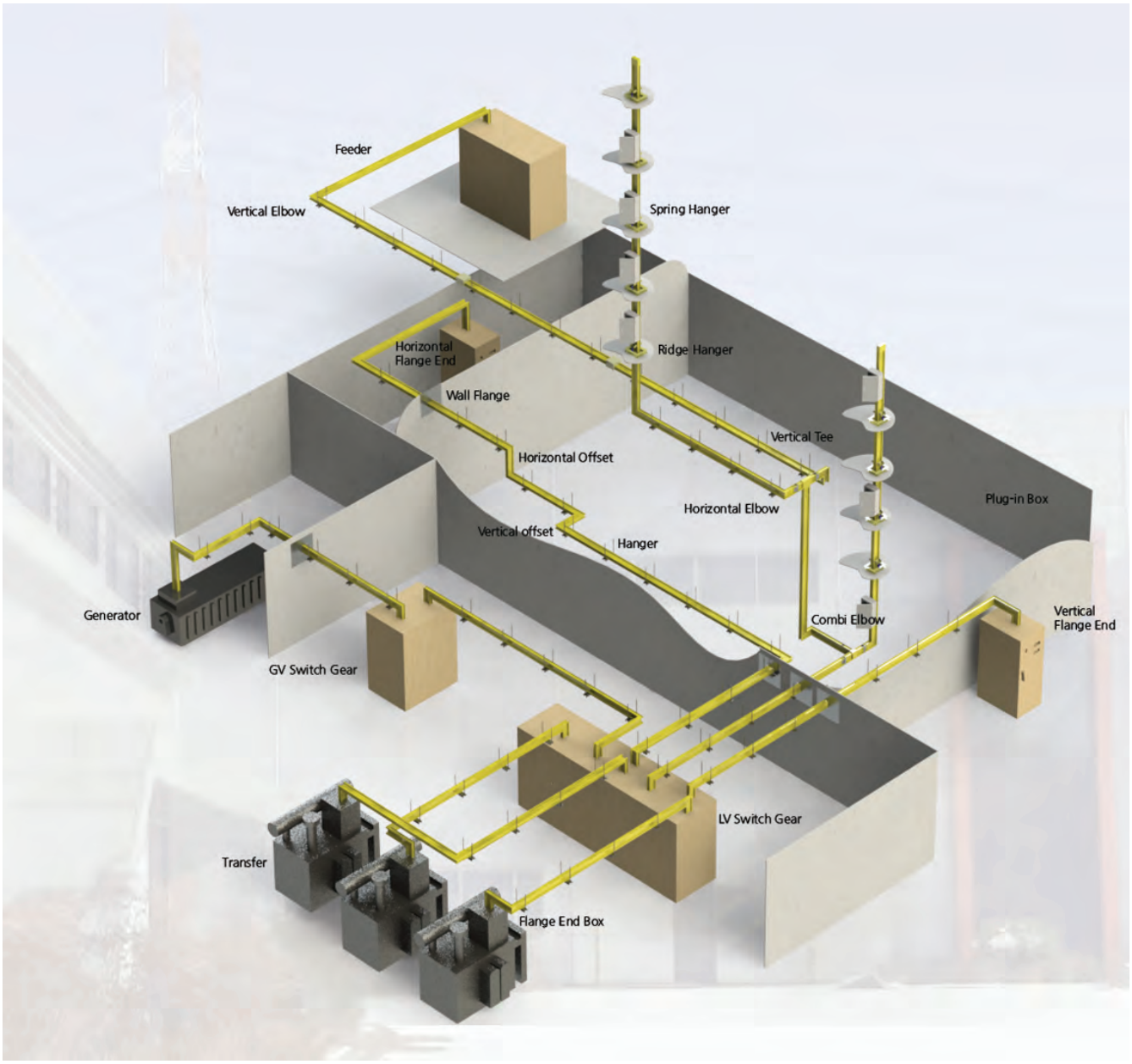
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BUSDUCT SYSTEM
TF-BUSWAY Installation

TF-BUSWAY
TAIHAN- TOP - TRUST

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

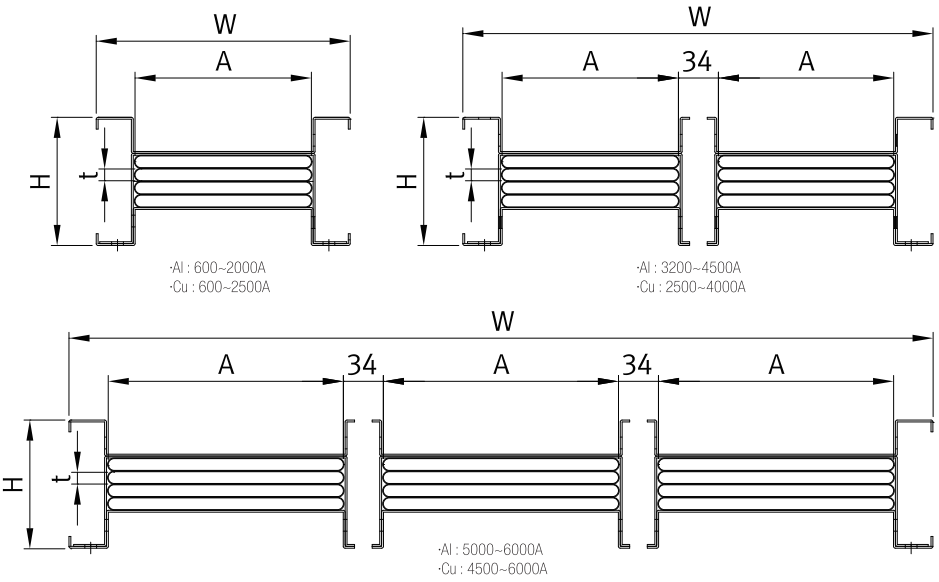
Installation Diagram and Lay-Out



■ Specification

section	Content	
Applied Standards	KS IEC 60439 - 1,2, IEC 60439 - 1,2, JISC 8364, KSC8450	
Rated Voltage	AC 1000V and less / DC 1500V and less	
Rated Current	Al Conductor	600~6000A
	Cu Conductor	600~ 6000A
Rated Frequency	50Hz / 60Hz	
Product Composition	3W, 4W	
Material Used	Al Conductor	1060 (KSD 6762)
	Cu Conductor	C1100 (KSD 5530)
	Housing	EGI (KSD 3528)
	Insulation	Polyester Film (Class B)
	Connection Coating	Tin / Ag
IP Rating	Indoor Type	IP42 / IP54
	Outdoor Type	IP 64
Service Conditions	Ambient Temperaature	40°C less
	Humidity	97% less
	Altitude	1000m less

■ Cross-Sectional Diagram



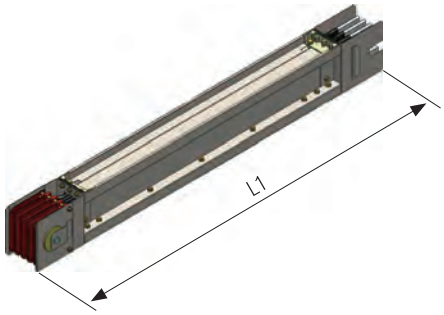
■ Dimensions and Weight

Capacity(A)		Dimensions(mm)					Weight(kg/m)	
		t	A	H		W		
				3W	4W		3W	4W
AL	600	6	55	101.5	109	121	12.2	13.8
	800	6	75			141	14.2	16.2
	1000	6	100			166	16.7	19.2
	1250	10	100			166	19.6	23.4
	1500	10	125			191	22.8	27.4
	1600	10	150			216	26.4	31.8
	2000	10	175			241	29.6	35.7
	2500	10	230			296	36.8	44.7
	3000	10	150×2			400	51.5	62.2
	3500	10	175×2			450	57.9	70.2
	4000	10	200×2			500	64.2	78.1
	4500	10	230×2			560	72.0	87.7
	5000	10	175×3			659	75.8	94.2
	6000	10	200×3			734	85.3	106.1
CU	600	6	55	101.5	109	121	19.4	23.3
	800	6	55			121	19.6	23.5
	1000	6	75			141	24.3	29.5
	1250	6	100			166	29.9	36.8
	1500	6	125			191	35.8	44.2
	1600	6	150			216	42.0	52.1
	2000	6	175			241	47.9	59.6
	2500	6	125×2			350	66.5	83.5
	3000	6	150×2			400	79.1	99.3
	3500	6	175×2			450	90.7	114.2
	4000	6	200×2			500	102.4	129.2
	4500	6	150×3			584	115.8	146.1
	5000	6	175×3			659	133.3	168.5
	6000	6	200×3			734	150.9	191.0

■ Dimensions

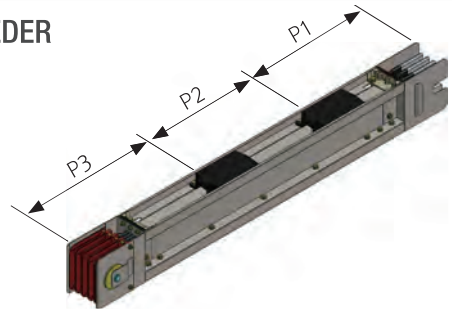
Unit (mm)

· FEEDER



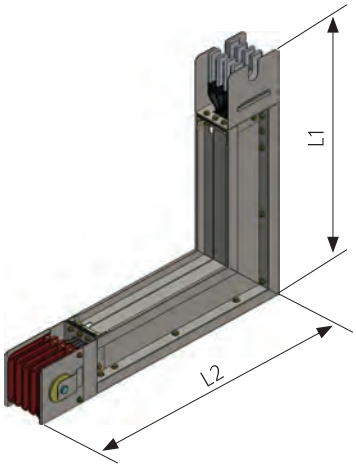
Rating in Amps		L1
Al	600~6000A	300~3000
Cu	600~6000A	300~3000

· PI-FEEDER



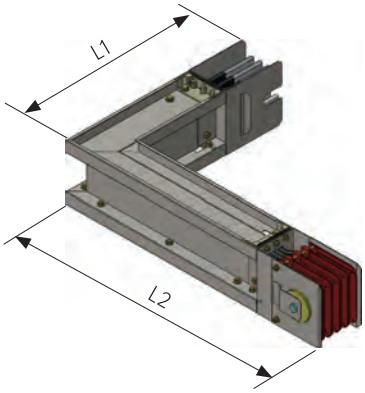
Rating in Amps		P1	P2
Al	600~6000A	500	500~2000
Cu	600~6000A	500	500~2000

· V-ELBOW



Rating in Amps		L1	L2
Al	600~2500A	400~799	
	3000~4000A	500~999	
	5000~6000A	700~1399	
Cu	600~2000A	400~799	
	3000~4500A	500~999	
	4500~6000A	600~1199	

· H-ELBOW

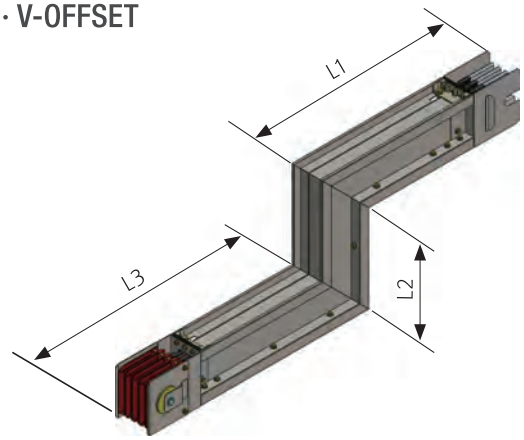


Rating in Amps		L1	L2
Al	600~6000A	300~900	
Cu	600~6000A	300~900	

■ Dimensions

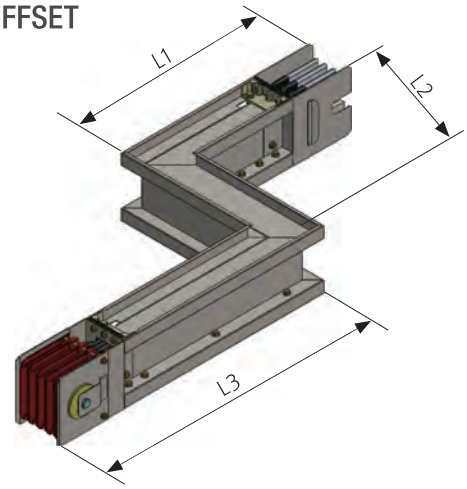
Unit (mm)

· V-OFFSET



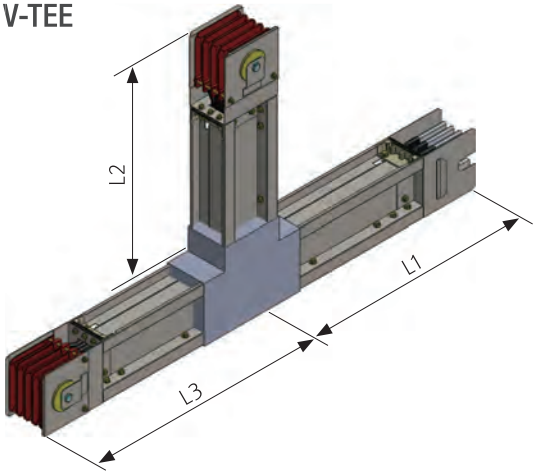
Rating in Amps		L1	L2	L3
Al	600~2500A	400~799	200~500	400~799
	3000~4500A	500~999	200~500	500~999
	5000~6000A	700~1399	200~500	700~1399
Cu	600~2000A	400~799	200~500	400~799
	2500~4000A	500~999	200~500	500~999
	4500~6000A	700~1399	200~500	700~1399

· H-OFFSET



Rating in Amps		L1	L2	L3
Al	600~2500A	300~900	300~500	300~900
	3000~4500A	300~900	300~500	300~900
	5000~6000A	300~900	300~500	300~900
Cu	600~2000A	300~900	300~500	300~900
	2500~4000A	300~900	300~500	300~900
	4500~6000A	300~900	300~500	300~900

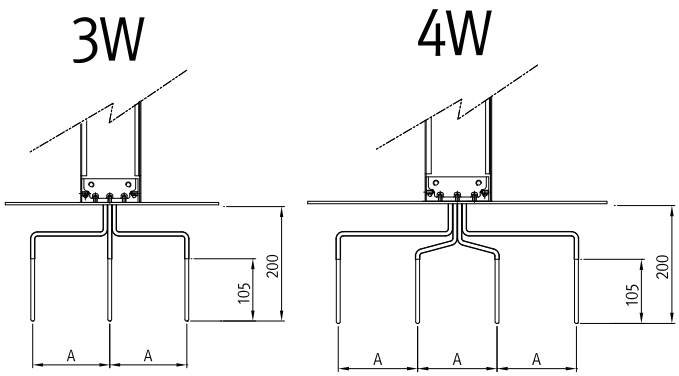
· V-TEE



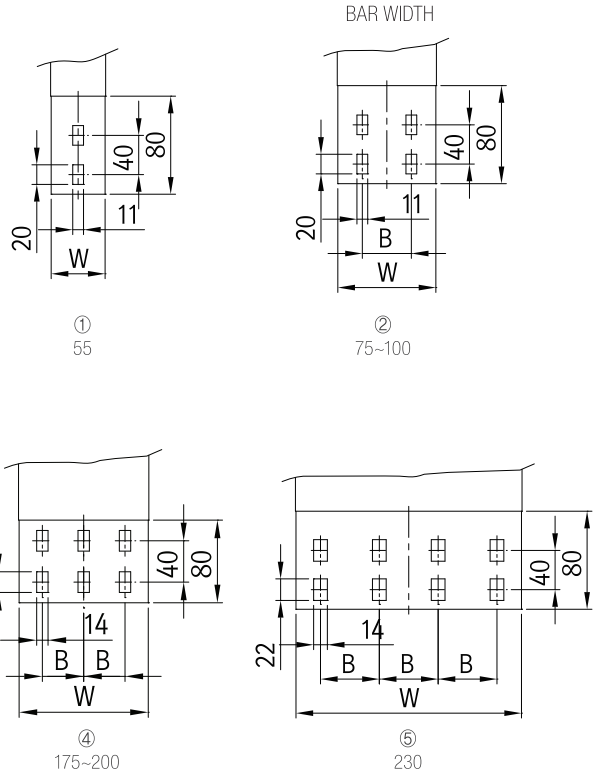
Rating in Amps		L1	L2	L3
Al	600~2500A	400~799	400~799	400~799
	3000~4500A	500~999	500~999	500~999
	5000~6000A	700~1399	700~1399	700~1399
Cu	600~2000A	400~799	400~799	400~799
	2500~4000A	500~999	500~999	500~999
	4500~6000A	700~1399	700~1399	700~1399

FLANGED END

· FLANGE END PITCH



· FLANGE END HOLE PITCH



Physical Data

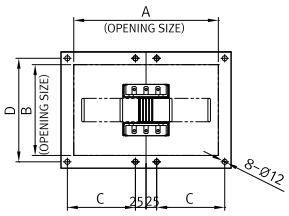
Unit (mm)

	Rating in Amps(A)	Conductors t	Conductors w	Distance of Flanged A	Distance of Hole B	Fig		Rating in Amps(A)	Conductors t	Conductors w	Distance of Flanged A	Distance of Hole B	Fig
AL	600	6	55	100	-	①	CU	600	6	55	100	-	①
	800	6	75	100	40	②		800	6	55	100	-	①
	1000	6	100	100	50	②		1000	6	75	100	40	②
	1250	10	100	100	50	②		1250	6	100	100	50	②
	1500	10	125	100	40	③		1500	6	125	100	40	③
	1600	10	150	100	50	③		1600	6	150	100	50	③
	2000	10	175	100	60	④		2000	6	175	100	60	④
	2500	10	230	100	60	⑤		2500	6	125×2	130	40	③
	3000	10	150×2	130	50	③		3000	6	150×2	130	50	③
	3500	10	175×2	130	60	④		3500	6	175×2	130	60	④
	4000	10	200×2	130	70	④		4000	6	200×2	130	70	④
	4500	10	230×2	130	60	⑤		4500	6	150×3	130	50	③
	5000	10	175×3	130	60	④		5000	6	175×3	130	60	④
	6000	10	200×3	130	70	④		6000	6	200×3	130	70	④

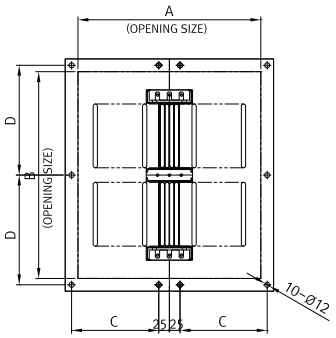
■ FLANGED END

· FLANGE END PANEL

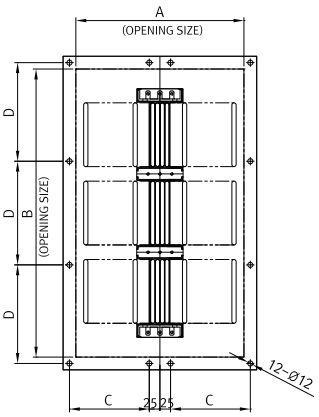
1Stack | ·Al : 630~2500A ·Cu : 630~2000A



2Stack | ·Al : 3200~4500A ·Cu : 2500~4000A



3Stack | ·Al : 5000~6000A ·Cu : 4500~6000A

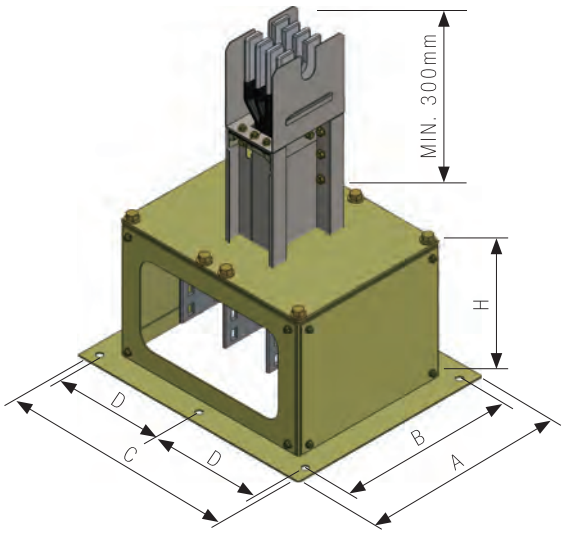


■ Physical Data

Rating in Amps(A)		3W				4W			
		A	B	C	D	A	B	C	D
AL	600	240	155	135	185	340	155	185	185
	800	240	175	135	205	340	175	185	205
	1000	240	200	135	230	340	200	185	230
	1250	240	200	135	230	340	200	185	230
	1500	240	225	135	255	340	225	185	255
	1600	240	250	135	280	340	250	185	280
	2000	240	275	135	305	340	275	185	305
	2500	240	330	135	360	340	330	185	360
	3000	300	425	165	228	430	425	230	228
	3500	300	475	165	253	430	475	230	253
	4000	300	525	165	278	430	525	230	278
	4500	300	585	165	308	430	585	230	308
	5000	300	675	165	235	430	575	230	235
	6000	300	750	165	260	430	750	230	260
CU	600	240	155	135	185	340	155	185	185
	800	240	155	135	185	340	155	185	185
	1000	240	175	135	205	340	175	185	205
	1250	240	200	135	230	340	200	185	230
	1500	240	225	135	255	340	225	185	255
	1600	240	250	135	280	340	250	185	280
	2000	240	275	135	305	340	275	185	305
	2500	300	375	165	203	430	375	230	203
	3000	300	425	165	228	430	425	230	228
	3500	300	475	165	253	430	475	230	253
	4000	300	525	165	278	430	525	230	278
	4500	300	600	165	210	430	600	230	210
	5000	300	675	165	235	430	675	230	235
	6000	300	750	165	260	430	750	230	260

■ FLANGED END

· FLANGE END BOX

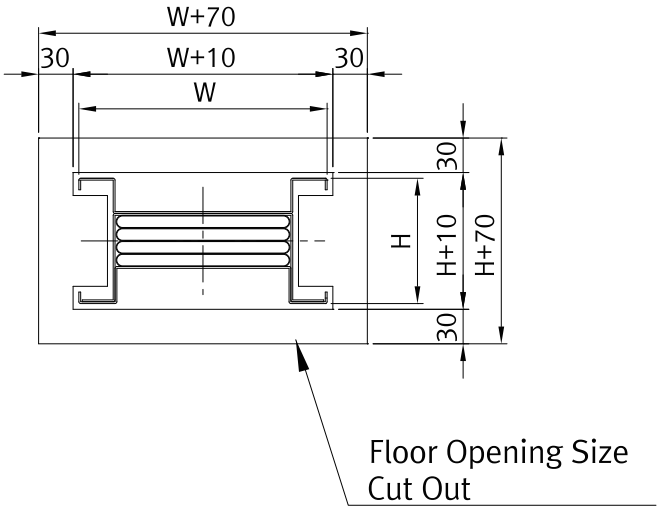


■ Physical Data

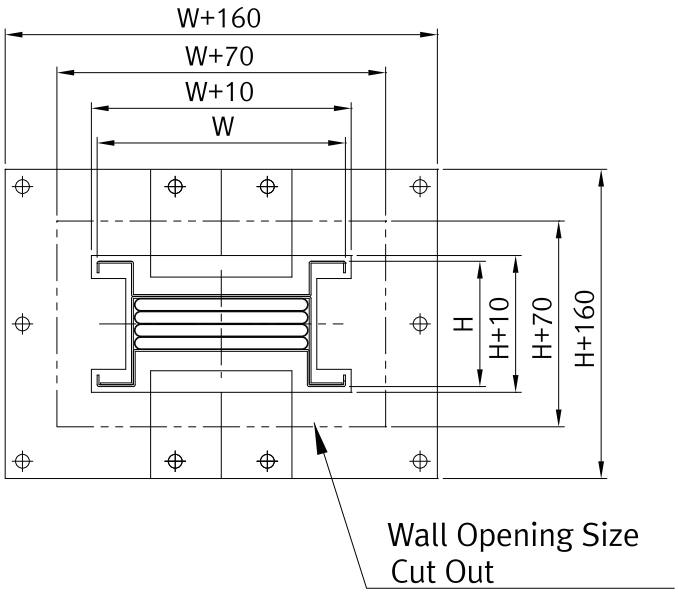
Rating in Amps(A)		3W					4W				
		A	B	C	D	H	A	B	C	D	H
AL	600	310	260	450	200×2	270	310	260	550	250×2	270
	800	310	260	450	200×2	270	310	260	550	250×2	270
	1000	310	260	450	200×2	270	310	260	550	250×2	270
	1200	310	260	450	200×2	270	310	260	550	250×2	270
	1500	385	335	450	200×2	270	385	335	550	250×2	270
	1600	385	335	450	200×2	270	385	335	550	250×2	270
	2000	385	335	450	200×2	270	385	335	550	250×2	270
	2500	440	390	450	200×2	270	440	390	550	250×2	270
	3000	535	243×2	510	230×2	270	535	243×2	640	295×2	270
	3500	635	293×2	510	230×2	270	635	293×2	640	295×2	270
	4000	635	293×2	510	230×2	270	635	293×2	640	295×2	270
	4500	695	323×2	510	230×2	270	695	323×2	640	295×2	270
	5000	785	245×3	510	230×2	270	785	245×3	640	295×2	270
	6000	860	270×3	510	230×2	270	860	270×3	640	295×2	270
CU	600	310	260	450	200×2	270	310	260	550	250×2	270
	800	310	260	450	200×2	270	310	260	550	250×2	270
	1000	310	260	450	200×2	270	310	260	550	250×2	270
	1200	310	260	450	200×2	270	310	260	550	250×2	270
	1500	385	335	450	200×2	270	385	335	550	250×2	270
	1600	385	335	450	200×2	270	385	335	550	250×2	270
	2000	385	335	450	200×2	270	385	335	550	250×2	270
	2500	485	218×2	510	230×2	270	485	218×2	640	295×2	270
	3000	535	243×2	510	230×2	270	535	243×2	640	295×2	270
	3500	635	293×2	510	230×2	270	635	293×2	640	295×2	270
	4000	635	293×2	510	230×2	270	635	293×2	640	295×2	270
	4500	710	220×3	510	230×2	270	710	220×3	640	295×2	270
	5000	785	245×3	510	230×2	270	785	245×3	640	295×2	270
	6000	860	270×3	510	230×2	270	860	270×3	640	295×2	270

FLANGE

· FLOOR



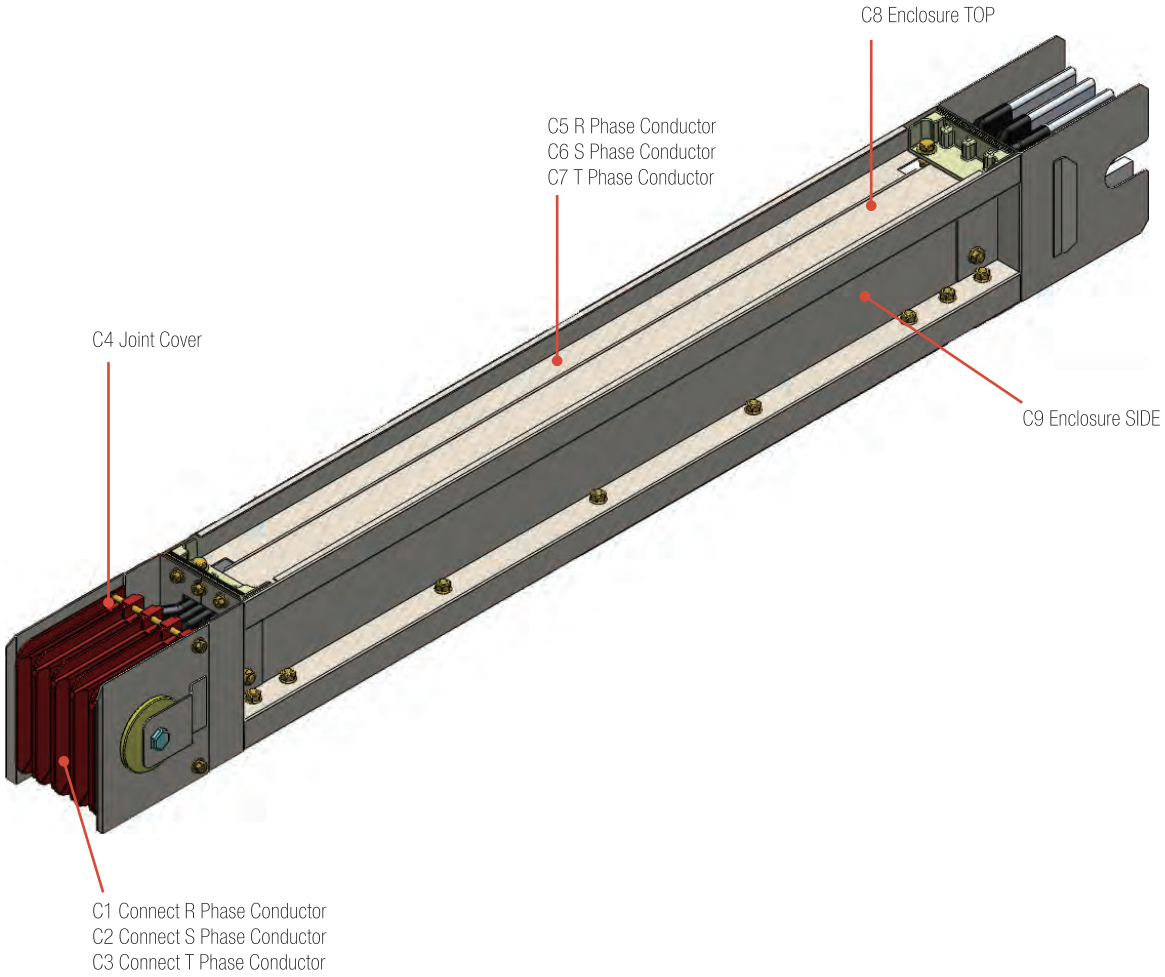
· WALL



Physical Data

Rating in Amps(A)		W	H		Rating in Amps(A)		W	H	
			3W	4W				3W	4W
AL	600	121	101.5	109	CU	600	121	101.5	109
	800	141				800	121		
	1000	166				1000	141		
	1250	166				1250	166		
	1500	191				1500	191		
	1600	216				1600	216		
	2000	241				2000	241		
	2500	296				2500	350		
	3200	400				3200	400		
	3500	450				3500	450		
	4000	500				4000	500		
	4500	560				4500	584		
	5000	659				5000	659		
	6000	734				6000	734		

■ Temperature Rise



Position	Temperature °C	Position	Temperature °C
C1	72.4	C6	63.4
C2	76.4	C7	60.6
C3	69.7	C8	54.8
C4	44.3	C9	63.4
C5	60.0		

Rated Current : 1600A , Ambient Temperature : 26°C

■ Temperature Rise Allowable

Enclosure △T 55°C. Connect Conductor △T 65 °C

*Applicable Standard : (Enclosure) KS IEC-60439-1, 2
(Conductor) JISC 8364

Short Circuit Strength

Temperature Rise 95°C

Conductors	Rating in Amps (A)	Short-current RMS (KA/sec)	Conductors Dimensions SIZE (mm)	IMPEDANCE (x10-5Ω/m)			R_{dc}
				R_{ac}	X	Z	
AL	600	50	55	11.43	3.04	11.83	11.42
	800	50	75	8.42	2.20	8.71	8.32
	1000	65	100	6.44	1.72	6.67	6.21
	1250	65	100	4.01	2.35	4.65	3.76
	1500	65	125	3.30	2.03	3.87	3.00
	1600	80	150	2.80	1.52	3.18	2.49
	2000	80	175	2.44	1.46	2.84	2.13
	2500	100	230	1.92	1.17	2.25	1.62
	3000	100	150×2	1.52	0.96	1.80	1.24
	3500	100	175×2	1.32	0.76	1.53	1.06
	4000	120	200×2	1.19	0.66	1.36	0.93
	4500	120	230×2	1.06	0.59	1.21	0.81
	5000	120	175×3	0.95	0.49	1.07	0.71
	6000	120	200×3	0.84	0.46	0.96	0.62

Conductors	Rating in Amps (A)	Short-current RMS (KA/sec)	Conductors Dimensions SIZE (mm)	IMPEDANCE (x10-5Ω/m)			R_{dc}
				R_{ac}	X	Z	
CU	600	50	55	7.00	3.04	7.63	7.07
	800	50	55	7.00	3.04	7.63	7.07
	1000	65	75	5.31	2.20	5.75	5.15
	1250	65	100	4.13	1.72	4.48	3.85
	1500	65	125	3.41	1.42	3.70	3.07
	1600	80	150	2.88	1.20	3.12	2.55
	2000	80	175	2.60	1.05	2.80	2.19
	2500	100	125×2	1.82	0.75	1.97	1.53
	3000	100	150×2	1.57	0.65	1.70	1.28
	3500	100	175×2	1.35	0.55	1.46	1.09
	4000	120	200×2	1.20	0.46	1.29	0.96
	4500	120	150×3	1.10	0.42	1.18	0.85
	5000	120	175×3	0.97	0.36	1.03	0.73
	6000	120	200×3	0.86	0.30	0.91	0.64

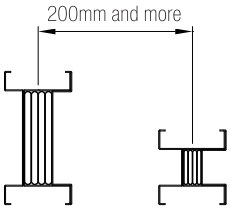
Voltage Drop

V/100M, Temperature Rise 95°C

Conductors	Rating in Amps (A)	POWER FACTOR (%)					
		0.5	0.6	0.7	0.8	0.9	1.0
AL	600	8.68	9.65	10.57	11.40	12.07	11.88
	800	8.47	9.44	10.34	11.16	11.83	11.67
	1000	8.16	9.08	9.94	10.71	11.34	11.15
	1250	8.40	8.91	9.32	9.60	9.63	8.33
	1500	8.85	9.36	9.77	10.02	10.02	8.57
	1600	7.53	8.03	8.44	8.74	8.82	7.76
	2000	8.61	9.12	9.53	9.80	9.81	8.45
	2500	8.54	9.04	9.44	9.69	9.69	8.31
	3000	8.27	8.73	9.09	9.31	9.28	7.90
	3500	7.99	8.49	8.89	9.17	9.21	8.00
	4000	8.08	8.60	9.04	9.34	9.41	8.24
	4500	8.11	8.64	9.07	9.37	9.44	8.26
	5000	7.79	8.33	8.79	9.13	9.25	8.23
	6000	8.50	9.06	9.52	9.85	9.94	8.73

Conductors	Rating in Amps (A)	POWER FACTOR (%)					
		0.5	0.6	0.7	0.8	0.9	1.0
CU	600	6.37	6.89	7.35	7.72	7.92	7.27
	800	8.50	9.19	9.80	10.29	10.57	9.70
	1000	7.90	8.57	9.16	9.64	9.94	9.20
	1250	7.39	8.01	8.56	9.01	9.28	8.58
	1500	7.62	8.27	8.84	9.30	9.58	8.86
	1600	6.87	7.45	7.96	8.38	8.63	7.98
	2000	7.65	8.31	8.90	9.39	9.69	9.01
	2500	5.21	5.63	6.00	6.30	6.47	5.93
	3000	7.00	7.60	8.12	8.55	8.81	8.16
	3500	6.98	7.58	8.11	8.55	8.82	8.18
	4000	6.92	7.54	8.10	8.56	8.87	8.31
	4500	7.39	8.01	8.56	9.01	9.28	8.57
	5000	6.90	7.53	8.11	8.59	8.92	8.40
	6000	7.17	7.86	8.48	9.02	9.40	8.94

Vertical Installation

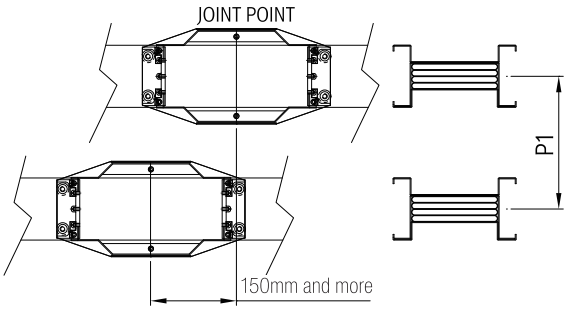


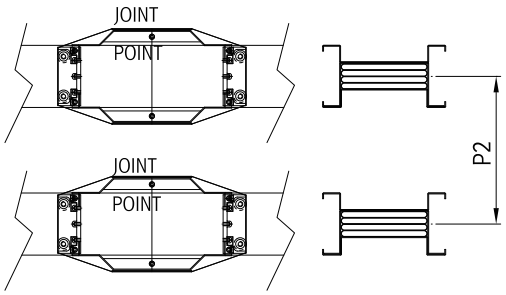
3w and 4w's P position may be identified as following diagram
(Center Point from the Enclosure)

Multiple Installation Space

Vertical Installation

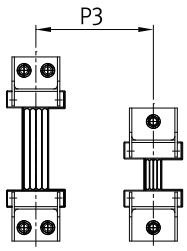
P1	P2
150MM AND MORE	

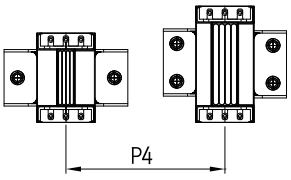




EPS Installation

P3	P4
When installing FRONT TYPE HANGER	When installing SIDE TYPE HANGER



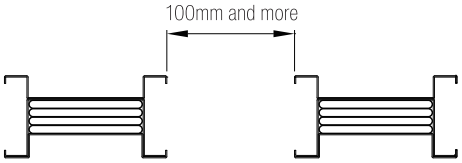


Multiple Installation P sizes

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
P	220	260	300	380	260	300	340	400	270	320	370	410

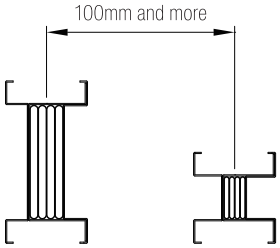
Horizontal Installation

Horizontal Multiple Installation Space



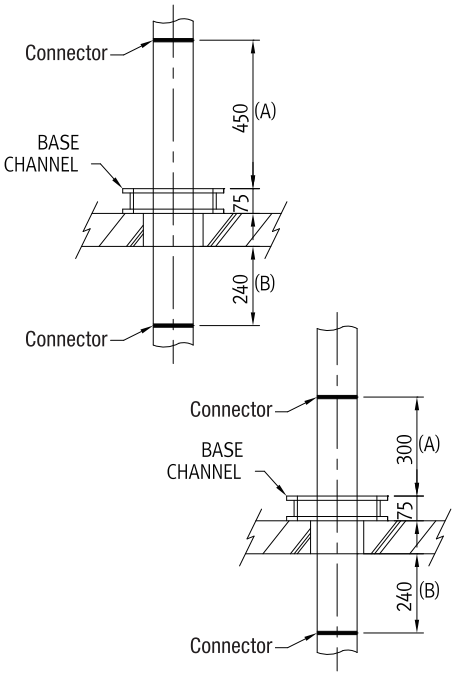
Distance between the housings is minimum 100mm and more.

Vertical Multiple Installation Space

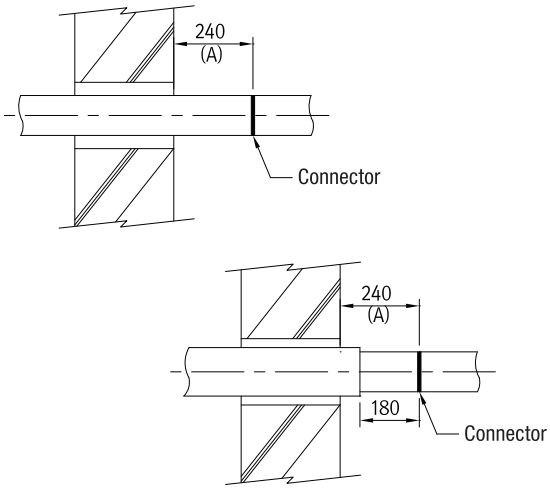


Distance between the housings is minimum 100mm and more.

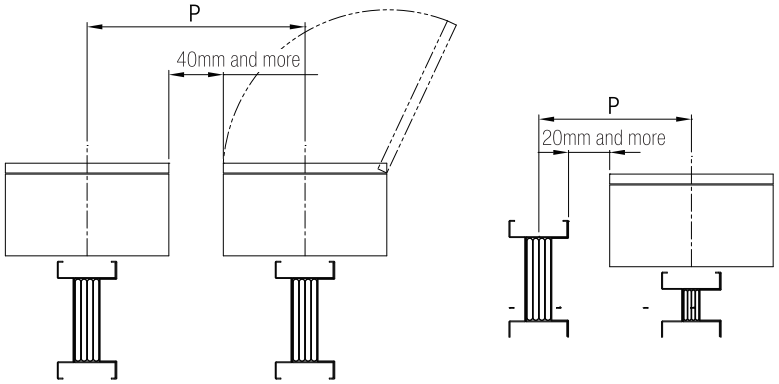
Floor Connector Medium distance



Wall Connector Medium distance

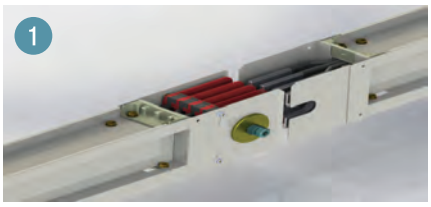


PH-BOX

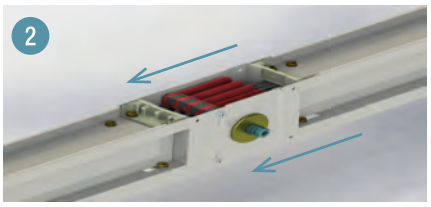


P value shall be determined so that there's no interference when PH box installing disassembling.

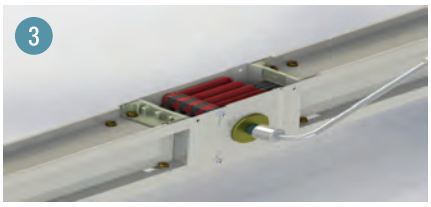
■ TF-BUSWAY Installation Procedure (IP54 standard)



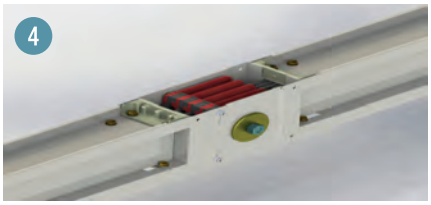
① Make sure the contact surface is clean and check the alignment of the both parts.



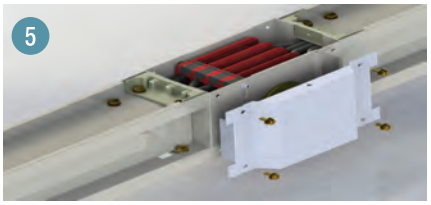
② Push the stopper on the wings to contact with the end of the joint kit.



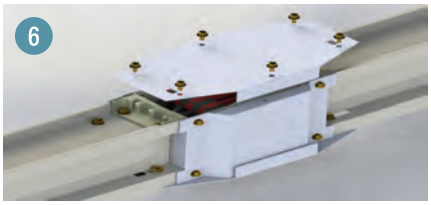
③ Align both sides and shear off the double-headed bolt by a wrench.



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.

■ 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.

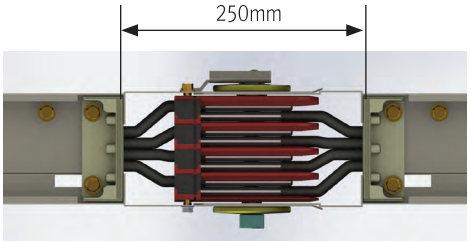
4. Make sure the terminal is safely secured into the brush.



5. PPush 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.

■ Connection Dimensions



When the Joint Kit and the stopper of the wings meet, the following dimensions can be measured.
250mm ± 2mm

■ Cautions

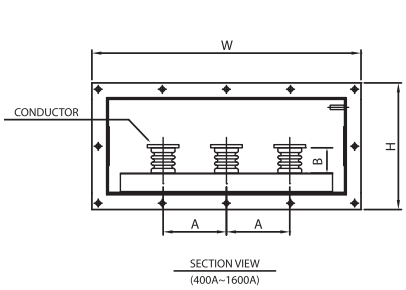
- Check if any interference has occurred to the box cover before installation
- During the live wire staus, do not touch the branch terminal
- Clean the surface before installation

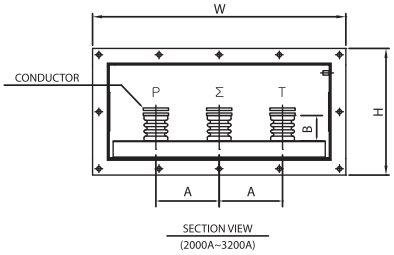
BUSDUCT SYSTEM
NSPB

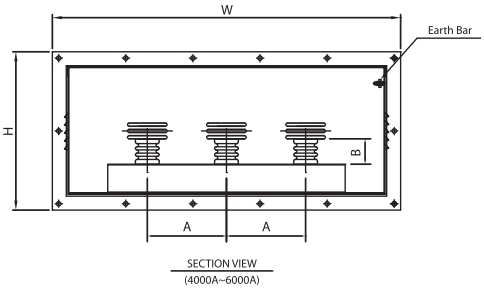
Key Features



Cross-Seetional







NO	Rating in Amps	Conductors	7.2KV				14KV				24KV			
			W	H	A	B	W	H	A	B	W	H	A	B
1	400A	t6×25	600	350	200	80	800	450	220	140	1200	550	300	210
2	600A	t6×40	600	350	200	80	800	450	220	140	1200	550	300	210
3	800A	t6×50	600	350	200	80	800	450	220	140	1200	550	300	210
4	1000A	t6×75	600	350	200	80	800	450	220	140	1200	550	300	210
5	1200A	t6×100	600	350	200	80	800	450	220	140	1200	550	300	210
6	1600A	t10×100	600	350	200	80	800	450	220	140	1400	550	300	210
7	2000A	t8×80×2	800	400	220	80	1000	500	250	140	1400	600	350	210
8	2500A	t10×100×2	800	400	220	80	1000	500	250	140	1400	600	350	210
9	3000A	t10×125×2	800	400	220	80	1000	500	250	140	1400	600	350	210
10	3200A	t12×125×2	900	450	220	80	1100	500	250	140	1400	600	350	210
11	4000A	t10×125×3	900	450	220	80	1100	500	250	140	1400	650	350	210
12	5000A	t10×150×3	1000	500	250	80	1200	500	280	140	1600	650	400	210
13	6000A	t10×150×4	1000	500	250	80	1200	500	280	140	1600	650	400	210


시험성적서

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시 험 성 적 서

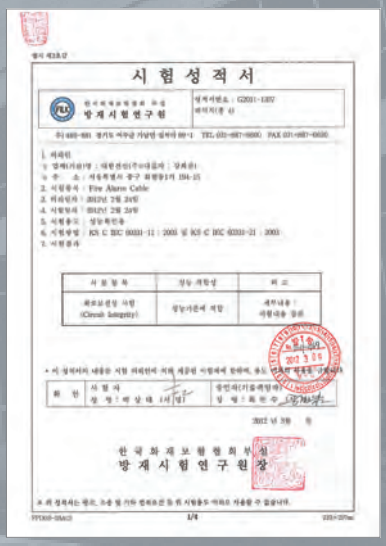
방재시험연구원

한국화재보험협회부설
방재시험연구원장


시 험 성 적 서

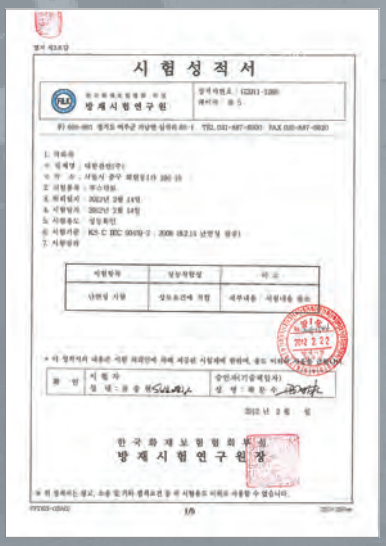
ktl

한국산업기술시험원장 (인)


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방재시험연구원

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방재시험연구원장


시 험 성 적 서

방재시험연구원

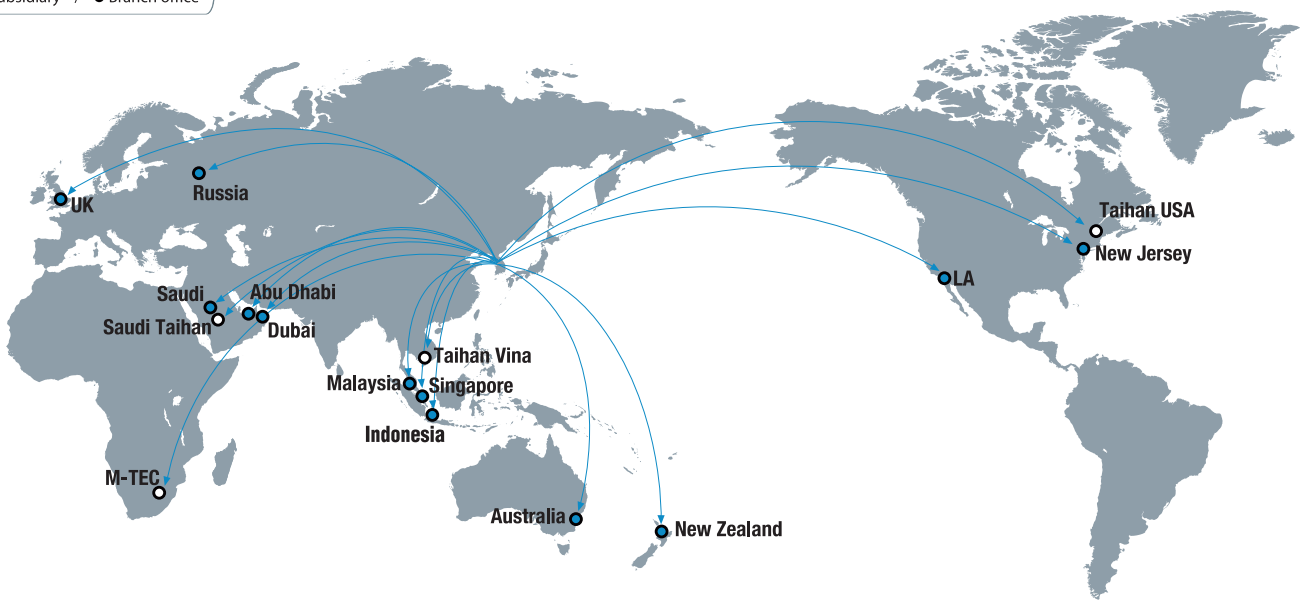
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MEMO

MEMO

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Dangjin Plant, R&D Laboratory

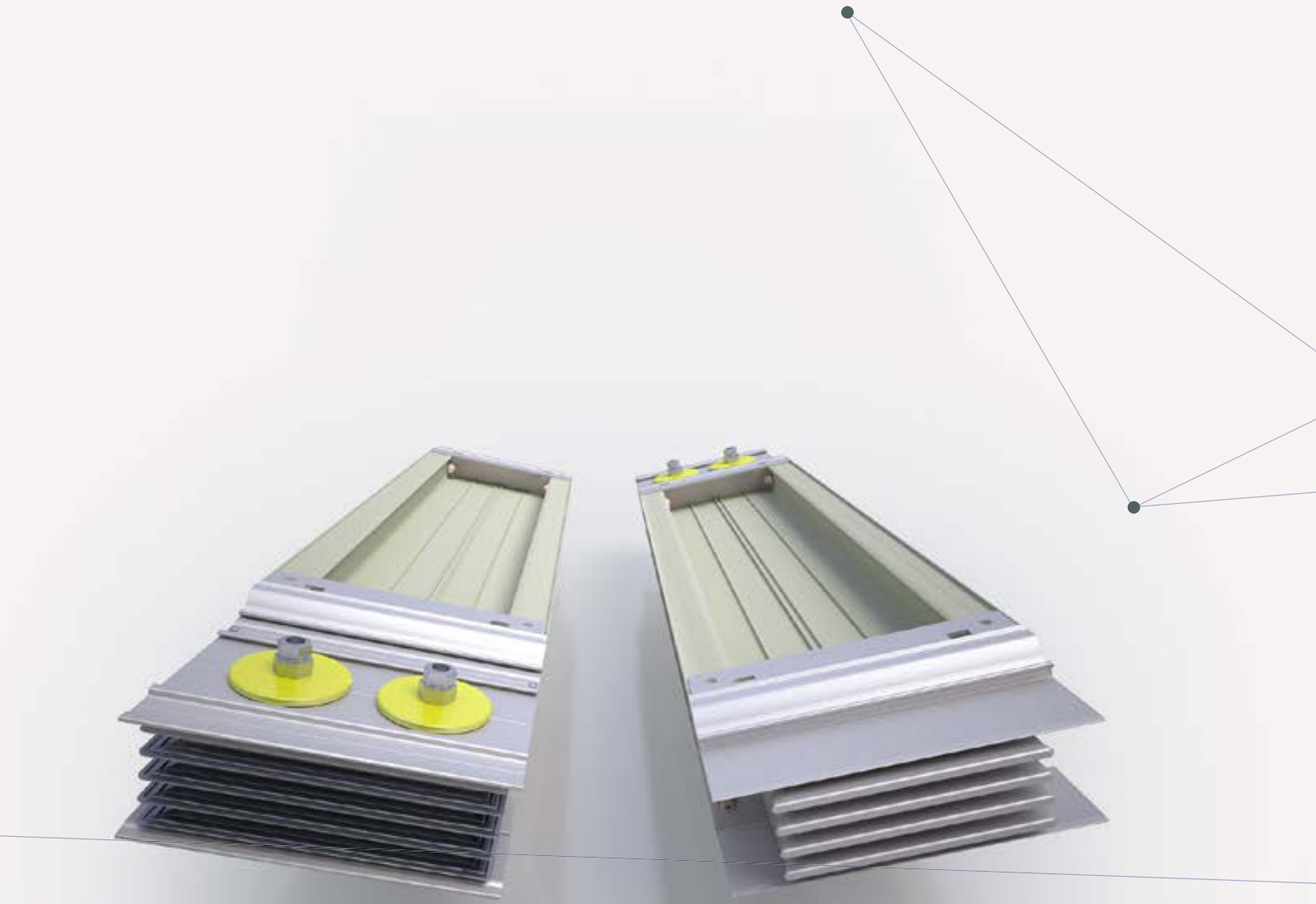
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