E-LINE KX-III

Busway Systems 400...6000A

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E-LINE KX-III

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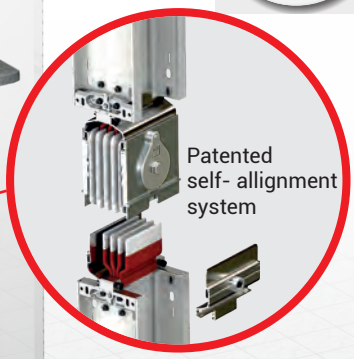
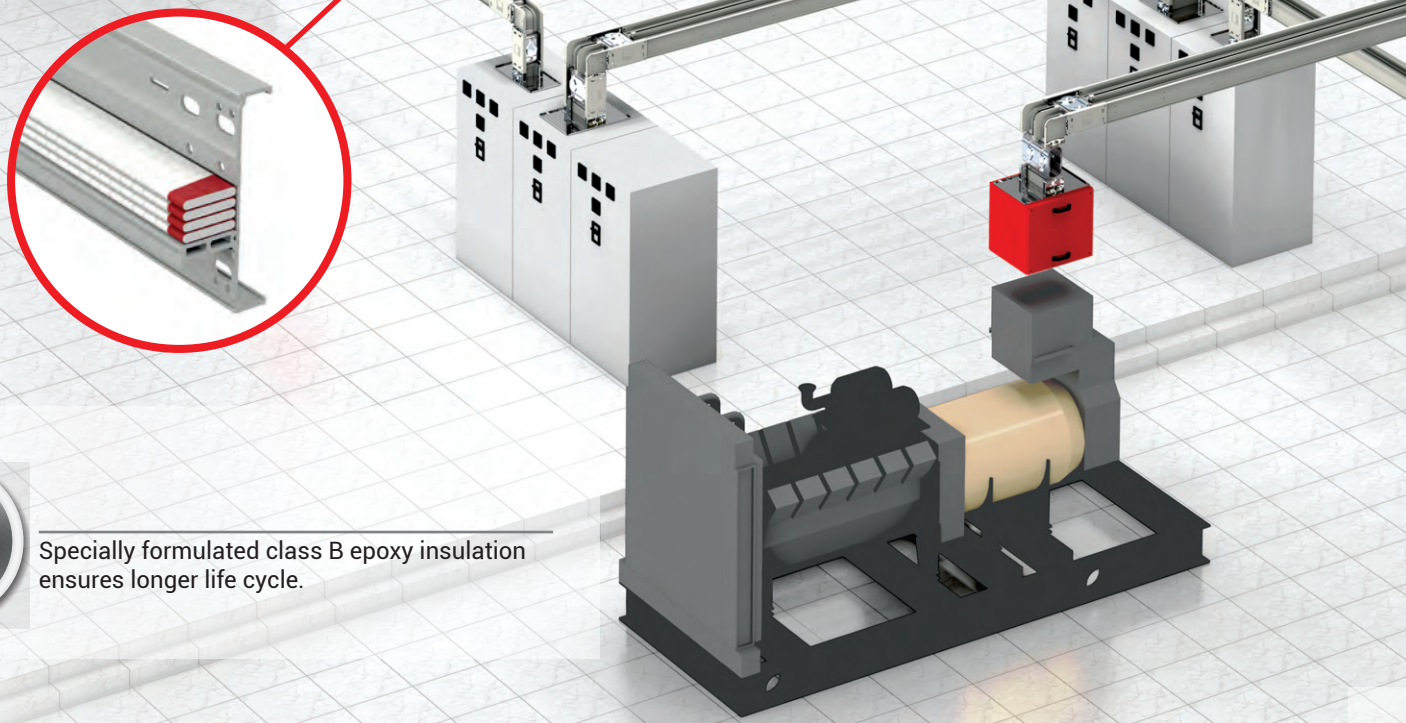


Tin plating is EAE standard application on all busway systems. Silver plating is optional.
Tin / Silver plating, prevents oxide formation on all contact surfaces and minimizes contact resistance.

KX Busway is easier to handle and install, saves labor costs and installation time.

Single-bolt connection includes special EAE belleville spring washer, that retains its original contact pressure ensuring proper electrical contact. Offers securer, more reliable and maintenance-free joint.



Specially formulated class B epoxy insulation ensures longer life cycle.

Under Regular Surveillance

Products and Production are under regular surveillance.

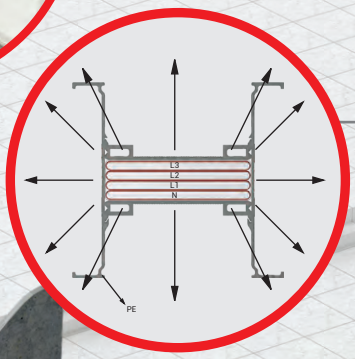
KEMA KEUR

UL LISTED BUSWAY E505448

UL Listed

UL 857

Coated with special paint to achieve highest durability against UV lights and corrosion.



Specially designed compact structure, with no air gap, ensures perfect heat dissipation.

Extraordinary fire resistance performance.

IEC 60331-1
BS 8491
BS 6387
DIN 4102-12
DIN 4102-9
UL 1479

EAE designs the busway systems for each project according to customer requirements, with focus on energy saving and efficiency.

While designing an electrical distribution system with E-Line KX-III a few approximate details will be necessary.

- Location, number, type and approximate ratings of loads.
- Transformer rates and short-circuit capacities, Utilization factor=A,
- System coordination with other distribution system (heat. water. etc).
- Determining the route of E-Line KX-III on layout. If necessar, coordination of E-Line KX-III Busway with E-Line KO-II runs.
- Deciding on suitable hanger types.

Utilization Factor (α)
Utilization factor (α) depends on the type and number of loads. It is usually around 0.7 or lower. The utilization factor of a line that supplies electricity to motors and lighting systems is usually lower than 0.6.
It is as low as 0.30 in weld shops of car factories. it can be 1 in lines where only one big load is supplied.

Voltage Drop
For practical voltage drop calculation. necessary values. formula and easy calculation methods are given on the technical characteristics table on pages 6-9.

Rated Current
The current is calculated using the following equation:

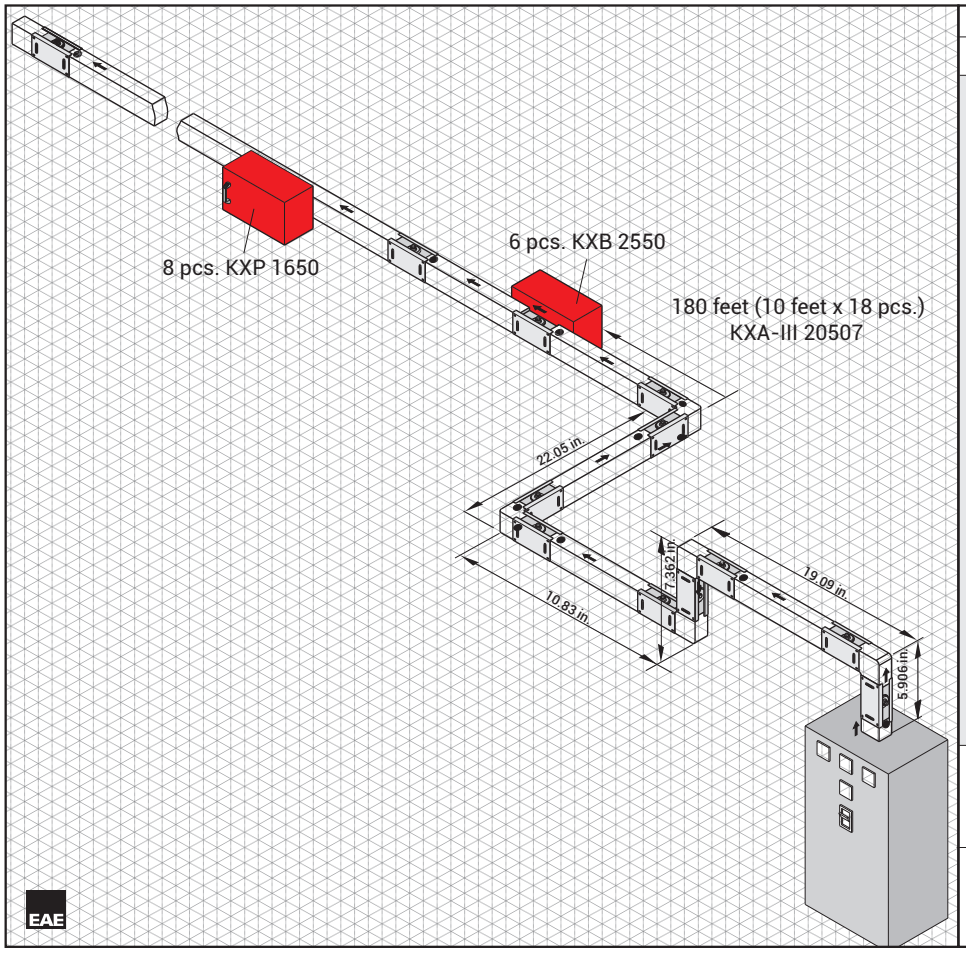
$$I_B = \frac{P.\alpha}{\sqrt{3}.U.\cos\varphi}$$

I_B = Operation current (A)
P = Installed load (W)
α = Utilization factor
U = Supply voltage (V)

- Busway current rating is chosen as equal to or higher then the calculated I_B current.
- After the voltage drop calculation if the chosen current rate is not convenient. a higher rating is chosen.

Short-Circuit
Tested short-circuit capacities are given on technical characteristics table on pages 6-9.

Busway Installation Plan
Our distributor's project & design departments will help you for preparing the installation plans on request.



Components List

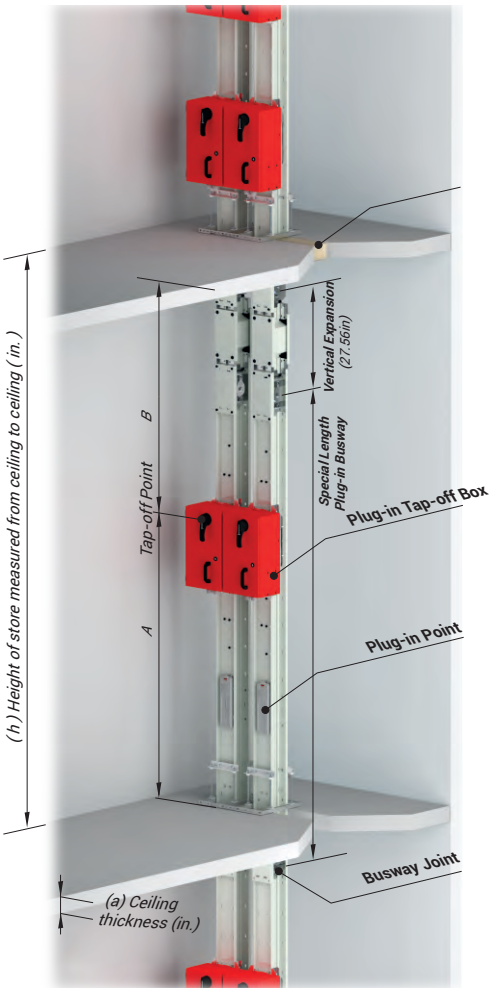
Item	Components		Quantity
1	KXA-III 20507 - STD	Busway (20 x10 ft)	196 ft.
2	KXA-III 20507 - D	Downwards Elbow	2 pcs.
3	KXA-III 20507 - R	Right Elbow	1 pc.
4	KXA-III 20507 - U	Upwards Elbow	1 pc.
5	KXA-III 20507 - L	Left Elbow	1 pc.
6	KXA-III 20507 - P11	Panel Connection	1 pc.
7	KXA-III 20507 - S10	End Closer	1 pc.
8	KXA-III 20507 - X95	Special Straight Length	1 pc.
9	KXA-III 20507 - X120	Special Straight Length	1 pc.
10	KXA-III 20507 - X122	Special Straight Length	1 pc.
11	KXA-III 20507 - X200	Special Straight Length	1 pc.
12	KXA-III 20507 - X174	Special Straight Length	1 pc.
13	KXP 1650	Tap-off Box	8 pcs.
14	KXB 2550	Tap-off Box	6 pcs.

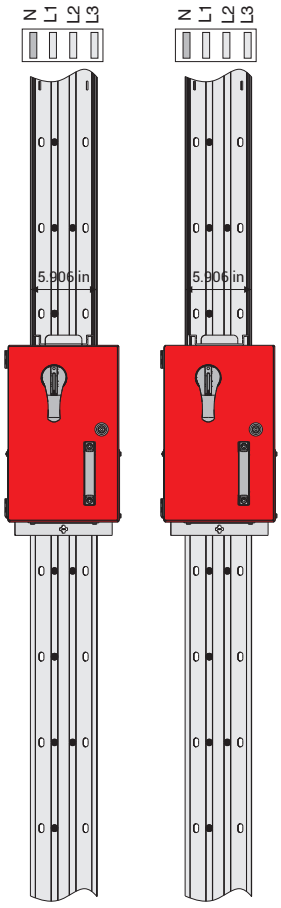
Company : Demir Makine
Project : II.OSB
Project No : 1128
Prepared by — Name : Sumeyra SAKA
Date : 19 / 02 / 2021
Signature :

Project Sample

As each building's structure is different than the other for vertical applications of **E-Line KX-III** special projects has to be designed.

The details on this page briefly explain the necessary information for drawing a vertical application project.



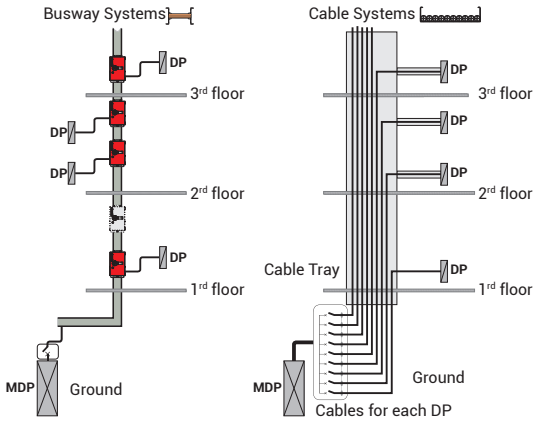


Project Design

The details below should be sent to our Project & Design department.

- Location and dimensions of the floor penetration where busway will be installed.
- Number, height and ceiling thickness of storeys. (a=.... h=...)
- Connected load for each storey.
- Supply type of the vertical line (busway or cable).

Please send the information to us by fax or e-mail with a sample drawing in Figure 1.



⚠ The alignments of windows or adjunction points on upper floors may not be the same due to floor heights, slab thickness and product tolerances on multi-way busbars in the high-rise vertical shaft applications. Assembly should continue by making measurements on each floor in order for boxes to be in alignment and in order for adjunction points not to coincide with floor transitions.

- EAE is not responsible for the potential risks that may occur in cases where the products in our catalogue are used outside of the standard phase sequences as shown in the catalogue.

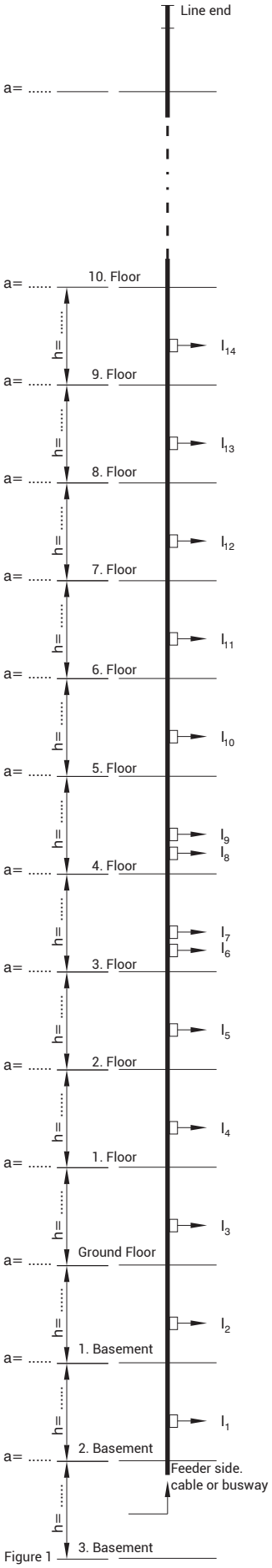


Figure 1

ELINEKX-III

▶▶Technical Characteristics

Aluminium Conductor (Al)

Standards	UL 857			
Rated Operational Voltage	U_i	V	600	
Rated Insulation Voltage	U_e	Vac	600	
Rated Frequency	f	Hz	50-60	
Rated Current	**A**	**400**	**550**	**630**
Busway Code		**04**	**05**	**06**
6 Cycle RMS Symmetrical Short Circuit Rating	kA	50	50	50
Resistance	mΩ/100ft	6.018	4.490	3.283
Reactance at 60Hz	mΩ/100ft	1.158	1.494	0.864
Impedance at 60Hz	mΩ/100ft	6.128	4.732	3.395
Ground Characteristic Under Fault Condition				
Resistance	mΩ/100ft	10.607	9.510	8.138
Reactance at 60Hz	mΩ/100ft	5.450	5.130	4.280
Impedance at 60Hz	mΩ/100ft	11.925	10.805	9.195
SECTIONS				
Conductor Dimensions	inch x inch	0.24x1.2	0.24x1.6	0.24x2.2
L1.L2.L3.N	inch²	0.28	0.37	0.51
	mm²	180	240	330
PE (4 ½ Conductors)	inch²	0.14	0.19	0.26
	mm²	90	120	165
PE (5 Conductors)	inch₂	0.28	0.37	0.51
	mm²	180	240	330
Aluminium Housing Section	inch₂	2.339	2.613	2.771
	mm²	1509	1686	1788
Busway Weight (4 Conductors)	lb/ft	4.97	5.3	6.17
	kg/m	7.4	7.9	9.2
Busway Weight (5 Conductors)	lb/ft	5.3	5.78	6.85
	kg/m	7.9	8.6	10.2
VOLTAGE DROP FULL LOAD 60Hz per 100ft				
Power Factor = 0.4	V/100ft	2.398	3.006	2.291
Power Factor = 0.5	V/100ft	2.398	3.006	2.291
Power Factor = 0.6	V/100ft	2.398	3.006	2.291
Power Factor = 0.7	V/100ft	3.491	4.010	3.181
Power Factor = 0.8	V/100ft	3.817	4.276	3.432
Power Factor = 0.9	V/100ft	4.105	4.476	3.639
Power Factor = 1.0	V/100ft	4.169	4.277	3.582

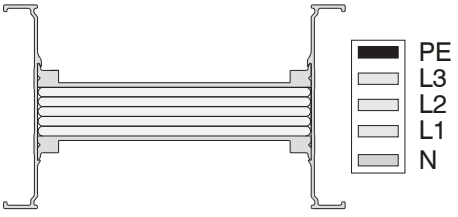
1- For plug-in distributed loads, divide voltage drop values by 2.

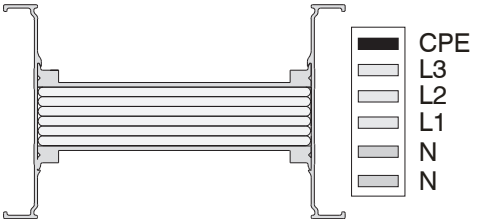
2- Actual voltage drop for different lengths and at loadings less than full rated current can be calculated using the formula:

VD (actual) = VD (table) x (actual current / rated current) x (actual length (ft) / 100 feet

Example: KXA-III 1000A voltage drop at 800A . lenght 80 feet;(power factor 0.9)

VD (actual) = 3.317 x (800/1000) x (80/100)=2.122 V





800	1000	1300	1600	2000	2500	3200	4000	5000
08	10	13	17	20	25	33	40	50
65	65	65	100	100	125	200	150	200
2.257	1.900	1.445	1.060	0.784	0.729	0.451	0.359	0.302
0.785	0.466	0.359	0.316	0.216	0.189	0.176	0.156	0.143
2.390	1.956	1.489	1.106	0.813	0.753	0.484	0.391	0.334
6.584	4.864	4.023	3.170	2.621	2.225	1.981	1.829	1.615
3.631	2.346	2.123	1.626	1.211	0.963	0.852	0.816	0.801
7.519	5.400	4.549	3.563	2.887	2.424	2.156	2.003	1.803
0.24x3.1	0.24x3.7	0.24x4.92	0.24x6.7	0.24x9.1	2x0.24x4.92	2x0.24x7.9	2x0.24x9.8	3x0.24x7.9
0.74	0.88	1.16	1.58	2.14	2.33	3.72	4.65	5.58
480	570	750	1020	1380	1500	2400	3000	3600
0.37	0.44	0.58	0.79	1.07	1.16	1.86	2.33	2.79
240	285	375	510	690	750	1200	1500	1800
0.74	0.88	1.16	1.58	2.14	2.33	3.72	4.65	5.58
480	570	750	1020	1380	1500	2400	3000	3600
2.936	3.094	3.298	3.666	4.132	6.305	7.514	8.176	11.048
1894	1996	2128	2365	2666	4068	4848	5275	7128
7.58	9.0	10.2	13.9	16.8	20.8	28.8	47.0	44.8
11.3	13.4	15.2	20.7	25.0	31.0	42.9	70	66.8
8.6	10.2	11.75	15.97	19.49	23.79	33.6	54.83	52.41
12.8	15.2	17.5	23.8	29.0	35.4	50	81.6	78.0
2.241	2.051	2.037	1.972	1.767	2.007	1.888	1.978	2.173
2.241	2.051	2.037	1.972	1.767	2.007	1.888	1.978	2.173
2.241	2.051	2.037	1.972	1.767	2.007	1.888	1.978	2.173
2.966	2.880	2.855	2.682	2.435	2.794	2.446	2.513	2.715
3.155	3.117	3.088	2.875	2.622	3.016	2.585	2.638	2.835
3.293	3.317	3.284	3.029	2.773	3.201	2.679	2.714	2.899
3.127	3.291	3.254	2.938	2.716	3.157	2.500	2.487	2.615

• To determine voltage drop line-to-neutral. multiply line-to-line values by 0.577.
• For 50 Hz. multiply reactance (X) by 0.83 and resistance values do not change.

Voltage drop:

Vd = load current x 1.732(RcosΘ + X sinΘ) per 100 ft. where cosΘ = Power Factor

• At voltage drop formula above. metric R and X can be used for voltage drop per meter

For metric conversion R, X, Z values (in Ohms per meters) use below formula by using table values

R(table) x 0.0328
X(table) x 0.0328
Z(table) x 0.0328

Example: KXA-III 1000A resistance and reactance at 800A, lenght 80 inch ;
R= 1.900 x 0.0328=0.062 mohm/ feet
X=0.466 x 0.0328=0.015 mohm/ feet
Impedance values are for busway operating at 176 °F (80 °C) temperature.

ELINEKX-III

▶▶Technical Characteristics

Copper Conductor (Cu)

Standards	UL 857				
Rated Operational Voltage	U_i	V	600		
Rated Insulation Voltage	U_e	Vac	600		
Rated Frequency	f	Hz	50-60		
Rated Current	**A**	**630**	**800**	**1000**	**1250**
Busway Code		**06**	**08**	**10**	**12**
6 Cycle RMS Symmetrical Short Circuit Rating	kA	65	65	65	125
Resistance	mΩ/100ft	2.813	2.514	1.888	1.426
Reactance at 60Hz	mΩ/100ft	0.942	0.838	0.673	0.524
Impedance at 60Hz	mΩ/100ft	2.967	2.650	2.004	1.519
Ground Characteristic Under Fault Condition					
Resistance	mΩ/100ft	6.401	6.203	5.850	5.230
Reactance at 60Hz	mΩ/100ft	4.140	3.860	3.520	3.199
Impedance at 60Hz	mΩ/100ft	7.623	7.306	6.827	6.131
SECTIONS					
Conductor Dimensions	inchxinch	0.24x1.6	0.24x1.8	0.24x2.4	0.24x3.1
L1.L2.L3.N	inch²	0.37	0.42	0.56	0.74
	mm²	240	270	360	480
PE (4 ½ Conductors)	inch²	0.19	0.21	0.28	0.37
	mm²	120	135	180	240
PE (5 Conductors)	inch²	0.37	0.42	0.56	0.74
	mm²	240	270	360	480
Aluminium Housing Section	inch²	2.613	2.775	2.799	2.936
	mm²	1686	1790	1806	1894
Busway Weight (4 Conductors)	lb/ft	9.68	10.89	13.44	16.46
	kg/m	14.4	16.2	20.0	24.5
Busway Weight (5 Conductors)	lb/ft	11.29	12.7	15.72	19.62
	kg/m	16.8	18.9	23.4	29.2
VOLTAGE DROP FULL LOAD 60Hz per 100ft					
Power Factor = 0.4	V/100ft	2.163	2.450	2.369	2.267
Power Factor = 0.5	V/100ft	2.425	2.747	2.645	2.526
Power Factor = 0.6	V/100ft	2.664	3.019	2.895	2.760
Power Factor = 0.7	V/100ft	2.883	3.268	3.121	2.971
Power Factor = 0.8	V/100ft	3.072	3.484	3.315	3.151
Power Factor = 0.9	V/100ft	3.215	3.646	3.456	3.278
Power Factor = 1.0	V/100ft	3.070	3.484	3.270	3.087

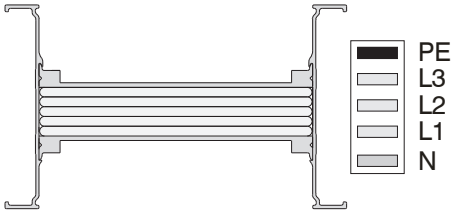
1- For plug-in distributed loads. divide voltage drop values by 2.

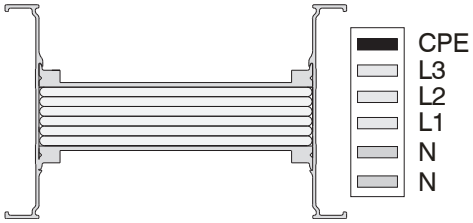
2- Actual voltage drop for different lengths and at loadings less than full rated current can be calculated using the formula:

VD (actual) = VD (table) x (actual current / rated current) x (actual length (ft) / 100 feet

Example: KXC-III 1000A voltage drop at 800A . lenght 80 feet;(power factor 0.9)

VD (actual) = 3.456 x (800/1000) x (80/100)=2.211 V





1350	1600	2000	2000	2500	3200	4000	5000	6000
14	16	20	22	26	32	40	50	60
125	125	125	200	200	200	200	200	200
1.237	0.901	0.670	0.670	0.606	0.463	0.320	0.274	0.212
0.457	0.362	0.295	0.295	0.237	0.186	0.146	0.116	0.103
1.319	0.971	0.732	0.732	0.651	0.499	0.352	0.298	0.236
4.860	3.620	2.840	2.134	1.958	1.712	1.423	1.310	1.250
3.010	2.650	2.160	1.402	1.206	1.105	0.860	0.648	0.579
5.717	4.486	3.568	2.553	2.300	2.038	1.663	1.462	1.377
0.24x3.7	0.24x5.1	0.24x6.7	2x0.24x3.1	2x0.24x3.7	2x0.24x5.1	2x0.24x7.1	3x0.24x4.1	3x0.24x7.1
0.88	1.16	1.58	1.49	1.77	2.33	3.35	3.91	5.02
570	750	1020	960	1140	1500	2160	2520	3240
0.44	0.58	0.79	0.74	0.88	1.16	1.67	1.95	2.51
285	375	510	480	570	750	1080	1260	1620
0.88	1.16	1.58	1.49	1.77	2.33	3.35	3.91	5.02
570	750	1020	960	1140	1500	2160	2520	3240
3.094	3.298	3.666	5.720	5.805	6.305	7.192	9.821	10.788
1996	2128	2365	3690	3745	4068	4640	6336	6960
18.61	24.33	31.25	33.73	36.82	47.78	65.79	76.60	98.44
27.7	36.2	46.5	50.2	54.8	71.1	97.9	114.0	146.5
22.65	29.43	37.97	39.92	44.42	57.66	80.1	93.2	119.88
33.7	43.8	56.5	59.4	66.1	85.8	119.2	138.7	178.4
2.129	1.912	1.858	1.858	1.984	1.965	1.807	1.863	1.855
2.372	2.117	2.045	2.045	2.201	2.176	1.984	2.056	2.029
2.590	2.301	2.210	2.210	2.395	2.364	2.139	2.227	2.178
2.788	2.464	2.354	2.354	2.570	2.532	2.274	2.378	2.306
2.955	2.599	2.470	2.470	2.715	2.672	2.381	2.501	2.405
3.073	2.689	2.538	2.538	2.813	2.763	2.440	2.578	2.454
2.892	2.497	2.321	2.321	2.624	2.566	2.217	2.373	2.203

Notes

• To determine voltage drop line-to-neutral. multiply line-to-line values by 0.577.
• For 50 Hz. multiply reactance (X) by 0.83 and resistance values do not change.

Voltage drop:

Vd = load current x 1.732(RcosΘ + X sinΘ) per 100 ft. where cosΘ = Power Factor

• At voltage drop formula above. metric R and X can be used for voltage drop per meter

For metric conversion R. X. Z values (in Ohms per meters) use below formula by using table values
R(table) x 0.0328
X(table) x 0.0328
Z(table) x 0.0328

Example: KXC-III 1000A resistance and reactance at 800A, lenght 80 inch ;
R= 1.888 x 0.0328=0.062 mohm/ inch
X= 0.673 x 0.0328=0.022 mohm/ inch
Impedance values are for busway operating at 176 °F (80 °C) temperature.

ELINEKX-III

▶▶Order Code System

BUSWAY TYPE
CONDUCTOR MATERIAL
BUSWAY CODE
PROTECTION DEGREE
CONDUCTOR CONFIGURATION
UTILIZATION TYPE P - Plug-in / B - Bolt-on
COMPONENT

KX | A-III | 16 | 5 | 07 | - | B | - | T R 4 1

Busway Type

CONDUCTOR MATERIAL

Aluminium	(Al)	A-III
Copper	(Cu)	C-III

BUSWAY CODE

KXA-III Al Conductor		KXC-III Cu Conductor		Conductor Size	
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)
400	04	-	-	0.24x1.18	6x30
550	05	630	06	0.24x1.57	6x40
-	-	800	08	0.24x1.77	6x45
630	06	-	-	0.24x2.17	6x55
-	-	1000	10	0.24x2.36	6x60
800	08	1250	12	0.24x3.15	6x80
1000	10	1350	14	0.24x3.74	6x95
1300	13	1600	16	0.24x4.92	6x125
1600	17	2000	20	0.24x6.69	6x170
2000	20	-	-	0.24x9.06	6x230
-	-	2000	22	2(0.24x3.15)	2(6x80)
-	-	2500	26	2(0.24x3.74)	2(6x95)
2500	25	3200	32	2(0.24x4.92)	2(6x125)
-	-	4000	40	2(0.24x7.09)	2(6x180)
3200	33	-	-	2(0.24x7.87)	2(6x200)
4000	40	-	-	2(0.24x9.84)	2(6x250)
-	-	5000	50	3(0.24x5.51)	3(6x140)
-	-	6000	60	3(0.24x7.09)	3(6x180)
5000	50	-	-	3(0.24x7.87)	3(6x200)

PROTECTION DEGREE

IP55 / IP65*	5

*Please call us for IP65 orders."Only indoor applications"

Conductor Configuration

Number of Conductors	Code	L1	L2	L3	N1	N2	PE	½ PE	CPE	½ CPE	PE (Housing)
4 ½ Conductors	07	✓	✓	✓	✓			✓			✓
5 Conductors	05	✓	✓	✓	✓		✓				✓
6 Conductors	06	✓	✓	✓	✓	✓			✓		✓

*TYPE	Utilization Type
(B) Bolt-on	Energy is supplied from the joints.
(P) Plug-in	Energy is supplied from the joints and the plug-in points.

COMPONENTS

Standard Length	STD
Special Length	X
Upwards Elbow	U
Downwards Elbow	D
Right Elbow	R
Left Elbow	L
Left Horizontal Offset	LH
Right Horizontal Offset	RH
Upwards Vertical Offset	UV
Downwards Vertical Offset	DV
Upwards Left Combined Offset	KUL
Upwards Right Combined Offset	KUR
Downwards Left Combined Offset	KDL
Downwards Right Combined Offset	KDR
Left Upwards Combined Offset	KLU
Right Upwards Combined Offset	KRU
Left Downwards Combined Offset	KLD
Right Downwards Combined Offset	KRD
End Closer	S
Reduction	RD
Left Side Feeder "T"	TYL
Right Side Feeder "T"	TYR
Central Feeder "T"	TO
Horizontal Expansion	YDT
Vertical Expansion	DDT
Phase Transposition Module	FDM
Panel Connection	P10
Panel Connection	P11
Upwards Panel Connection	PU20
Upwards Panel Connection	PU21
Downwards Panel Connection	PD20
Downwards Panel Connection	PD21
Right Panel Connection	PR30
Right Panel Connection	PR31
Left Panel Connection	PL30
Left Panel Connection	PL31
Panel Connection	P40
Panel Connection	P41
Transformer Connection	TR11
Upwards Transformer Connection	TU21
Downwards Transformer Connection	TD21
Transformer Connection	TR31
Transformer Connection	TR41
Right Transformer Connection	TR51
Left Transformer Connection	TL51
Transformer Connection	TR61
Transformer Connection	TR71
Feeder Box	B10
Feeder Box	B11
Central Feeder Box	BO
Flexible	F

ELINEKX-III

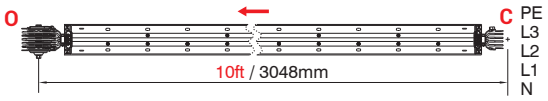
▶▶Standard Straight Length

Bolt-on Standard Straight Length Busway -STD

Sample Order:

KXA-III 25507-FB-STD
2500 A, Aluminium, Feeder,
IP 55, 4 1/2 conductors
Length = 10 ft / 3048mm

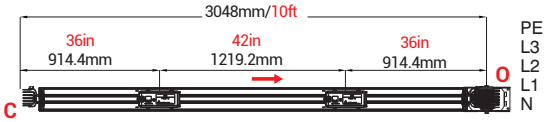
Applications:
• As feeder or sub-feeder line



Plug-in Standard Straight Length Busway -STD

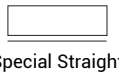
Sample Order:

KXC-III 12507-SP-STD
1250 A, Copper, S-Plug.
IP 55, 4 1/2 conductors



Note:
There are two plug-in tapoff points on a 10 ft standard lengths. The plug-in tapoff points are both sides of the busway. Should you require additional plug-in tap off point please contact EAE .

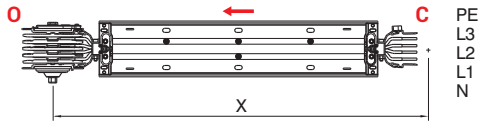
Special Straight Length -X



Special Straight Length in (mm)/(in)

Sample Order:

KXC-III 25507-FB-X-1470
2500 A, Copper, Feeder,
IP 55, 4 1/2 conductors. Special
Length =57.87in / 1470 mm



Note:
Feeder Minimum Length = 13.78in / 350mm
Plug-in Minimum Length = 39.37in / 1000mm

Plug-in Straight Length -X

Sample Order:

KXC-III 25507-SB-X-1470
2500 A, Copper, S-Plug.
IP 55, 4 1/2 conductors. Special
Length = /57.87in / 1470 mm

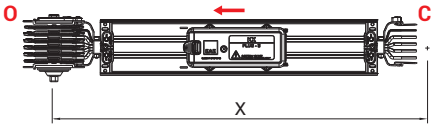
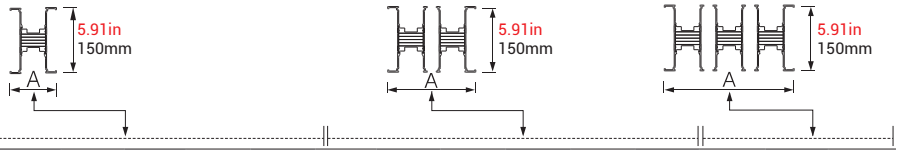


Table For Outer Dimension of Busways



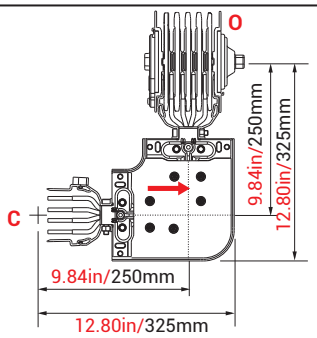
KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000	-	-	5000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40	-	-	50
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-	5000	6000	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-	50	60	-
A	(inch)	3.25	3.58	3.78	4.17	4.37	5.16	5.75	6.93	8.70	11.06	9.92	11.10	13.46	17.80	19.37	23.31	21.73	26.46	28.82
	(mm)	82.5	91	96	106	111	131	146	176	221	281	252	282	342	452	492	592	552	672	732

Important Notice for the Tap-off box use;
• KXA-III 400A, 550A, 630A, KXC-III 630A and 800A busway range may have plug-in windows at one side only.
It is highly recommended to consider these points in your project designs.

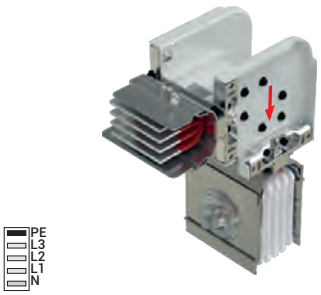
Upwards Elbow -U

Sample Order:

KXC-III 32507-B-U
3300 A, Copper, Bolton,
IP 55, 4 1/2 conductors

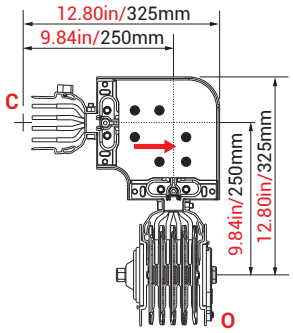


Downwards Elbow -D

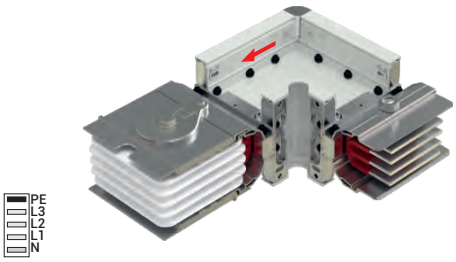


Sample Order:

KXC-III 32507-B-D
3300 A, Copper, Bolton,
IP 55, 4 1/2 conductors

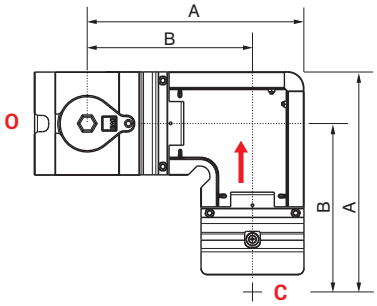


Left Elbow -L

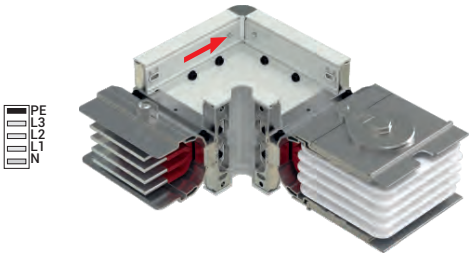


Sample Order:

KXC-III 20507-B-L
2000 A, Copper, Bolt-on,
IP 55, 4 1/2 conductors

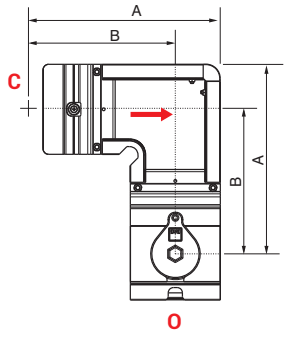


Right Elbow -R



Sample Order:

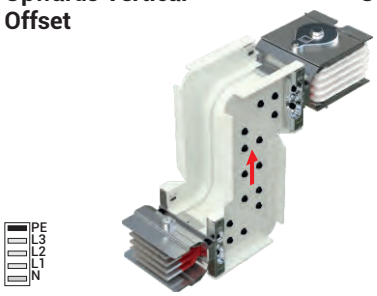
KXA-III 20507-B-R
2000 A, Aluminium, Bolt-on,
IP 55, 4 1/2 conductors



- Special left or right elbows between 90° and 180° can be manufactured upon request.
- The dimensions given above are minumum values.
- Please call us for non-standard components.

KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000	-	-	5000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40	-	-	50
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-	5000	6000	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-	50	60	-
A	(inch)	10.12	10.51	10.71	11.10	11.30	12.08	12.68	13.86	15.63	17.99	16.81	17.99	20.35	24.69	26.26	30.20	28.62	33.35	35.71
	(mm)	257	267	272	282	287	307	322	352	397	457	427	457	517	627	667	767	727	847	907
B	(inch)	8.54	8.74	8.82	9.02	9.13	9.49	9.80	10.39	11.26	12.44	11.85	12.44	13.62	15.79	16.57	18.54	17.76	20.12	21.30
	(mm)	217	222	224	229	232	241	249	264	286	316	301	316	346	401	421	471	451	511	541

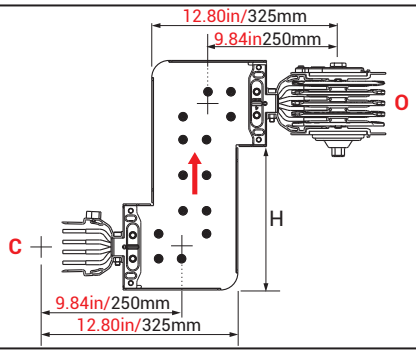
Upwards Vertical Offset -UV



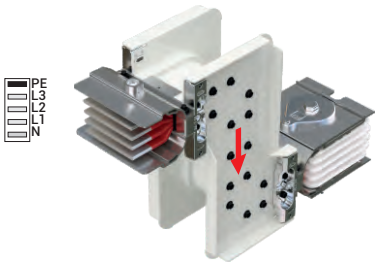
Sample Order:

KXA-III 20505-B-UV
2000 A, Aluminium, Bolt-on,
IP 55, 5 conductors

Note:
(*)Offset=min: 9.84in/250mm
max: 19.29in/490mm



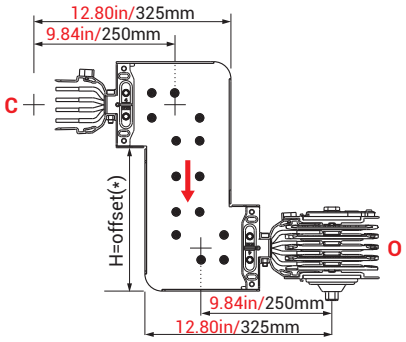
Downwards Vertical Offset -DV



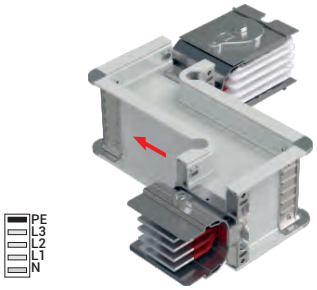
Sample Order:

KXA-III 20505-B-DV
2000 A, Aluminium, Bolt-on,
IP 55, 5 conductors

Note:
(*)Offset=min:9.84in/250mm
max:19.29in/490mm



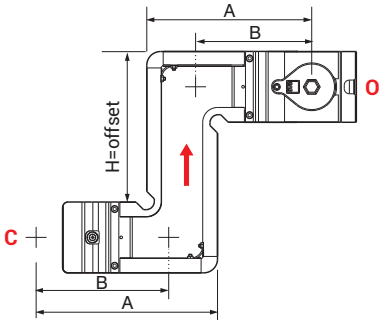
Left Horizontal Offset -LH



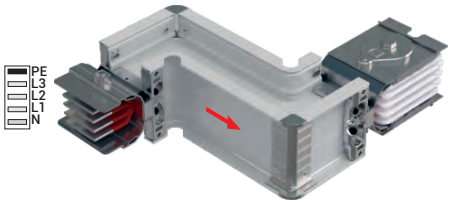
Sample Order:

KXC-III 32507-B-LH
3300 A, Copper, Bolton,
IP 55, 4 1/2 conductors

Note:
X=min:11.02in/280mm .
max: *Please see table.
Used.if two horizontal elbows
can not fit.

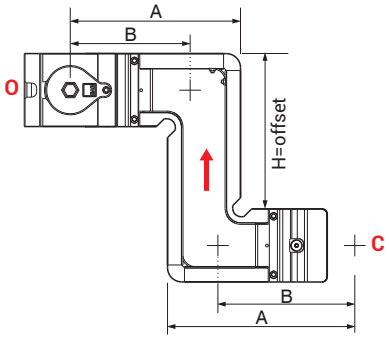


Right Horizontal Offset -RH



Sample Order:

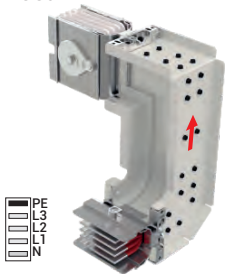
KXC-III 32507-B-RH
3300 A, Copper, Bolton,
IP 55, 4 1/2 conductors



- Special left or right elbows between 90° and 180° can be manufactured upon request.
- The dimensions given above are minumum values.
- Please call us for non-standard components.

KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000	-	-	5000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40	-	-	50
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-	5000	6000	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-	50	60	-
A	(inch)	10.12	10.51	10.71	11.10	11.30	12.08	12.68	13.86	15.63	17.99	16.81	17.99	20.35	24.69	26.26	30.20	28.62	33.35	35.71
	(mm)	257	267	272	282	287	307	322	352	397	457	427	457	517	627	667	767	727	847	907
B	(inch)	8.54	8.74	8.82	9.02	9.13	9.49	9.80	10.39	11.26	12.44	11.85	12.44	13.62	15.79	16.57	18.54	17.76	20.12	21.30
	(mm)	217	222	224	229	232	241	249	264	286	316	301	316	346	401	421	471	451	511	541
$H=Offset_{max}$	(inch)	17.00	17.40	17.60	17.99	18.19	18.98	19.57	20.75	22.52	24.88	23.70	24.88	27.24	31.57	33.15	37.48	41.42	46.14	48.50
	(mm)	432	442	447	457	462	482	497	527	572	632	602	632	692	802	842	952	1052	1172	1232

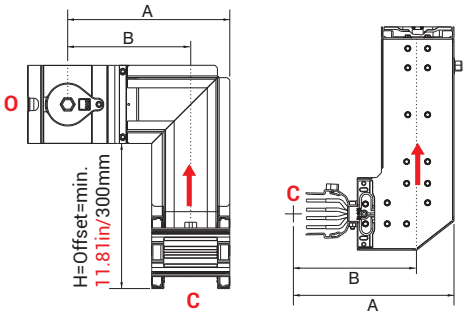
Upwards Left Combined Offset -K U L



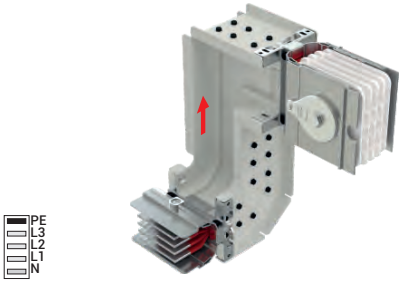
Sample Order:

KXC-III 32507-B-KUL
3300 A, Copper, Bolton,
IP 55, 4 1/2 conductors

Note:
H=Offset=min. 11.81in/300mm



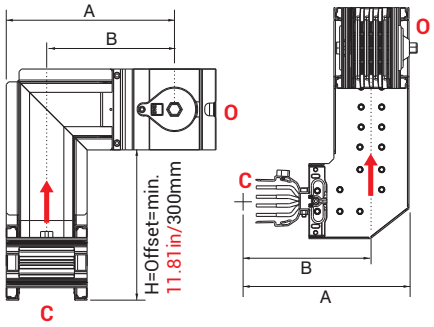
Upwards Right Combined Offset -K U R



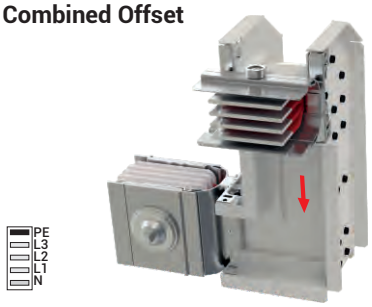
Sample Order:

KXA-III 33507-B-KUR
3200 A, Aluminium, Bolton,
IP 55, 4 1/2 conductors

Note:
H=Offset=min. 11.81in/300mm



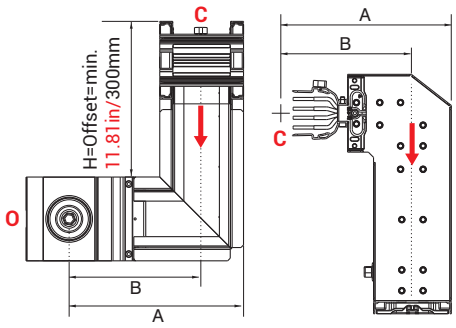
Downwards Left Combined Offset -K D L



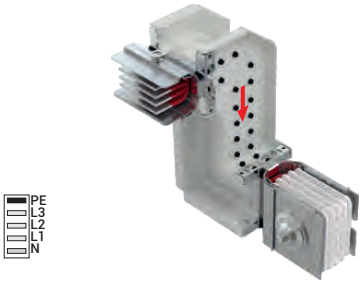
Sample Order:

KXC-III 32507-B-KDL
3300 A, Copper, Bolt-on,
IP 55, 4 1/2 conductors

Note:
H=Offset=min. 11.81in/300mm



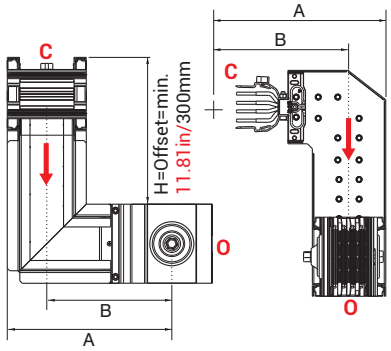
Downwards Right Combined Offset -K D R



Sample Order:

KXA-III 33507-B-KDR
3200 A, Aluminium, Bolt-on,
IP 55, 4 1/2 conductors

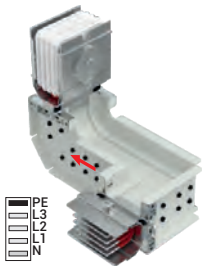
Note:
H=Offset=min. 11.81in/300mm



- Special left or right elbows between 90° and 180° can be manufactured upon request.
- The dimensions given above are minumum values.

KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000	-	-	5000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40	-	-	50
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-	5000	6000	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-	50	60	-
A	(inch)	10.12	10.51	10.71	11.10	11.30	12.08	12.68	13.86	15.63	17.99	16.81	17.99	20.35	24.69	26.26	30.20	28.62	33.35	35.71
	(mm)	257	267	272	282	287	307	322	352	397	457	427	457	517	627	667	767	727	847	907
B	(inch)	8.54	8.74	8.82	9.02	9.13	9.49	9.80	10.39	11.26	12.44	11.85	12.44	13.62	15.79	16.57	18.54	17.76	20.12	21.30
	(mm)	217	222	224	229	232	241	249	264	286	316	301	316	346	401	421	471	451	511	541
$H=Offset_{max}$	(inch)	17.00	17.40	17.60	17.99	18.19	18.98	19.57	20.75	22.52	24.88	23.70	24.88	27.24	31.57	33.15	37.48	41.42	46.14	48.50
	(mm)	432	442	447	457	462	482	497	527	572	632	602	632	692	802	842	952	1052	1172	1232

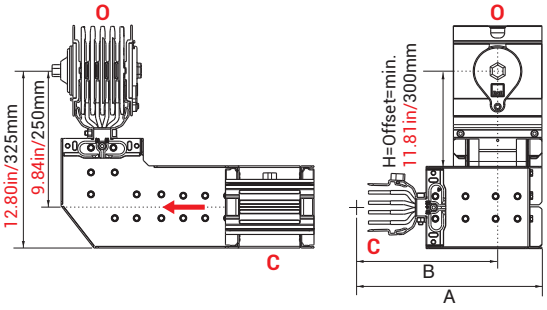
Left Upwards Combined Offset -K L U



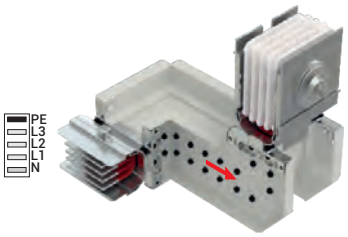
Sample Order:

KXA-III 33507-B-KLU
3200 A, Aluminium, Bolton,
IP 55, 4 1/2 conductors

Note:
H=Offset=min. 11.81in/300mm



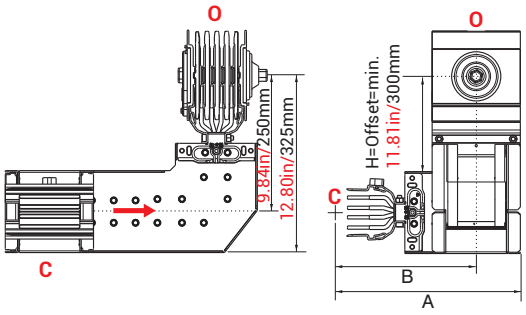
Right Upwards Combined Offset -K R U



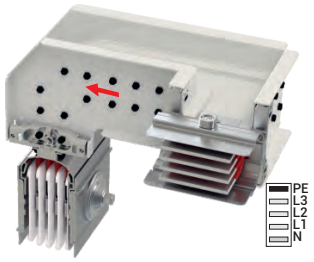
Sample Order:

KXC-III 32505-B-KRU
3300 A, Aluminium, Bolton,
IP 55, 5 conductors

Note:
H=Offset=min. 11.81in/300mm



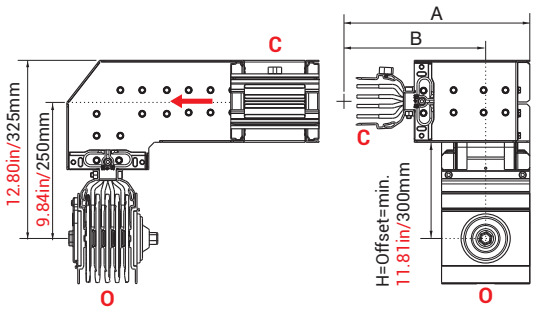
Left Downwards Combined Offset -K L D



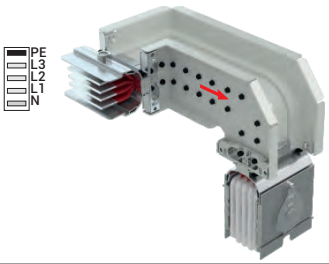
Sample Order:

KXA-III 33505-B-KLD
3200 A, Aluminium, Bolt-on,
IP 55, 5 conductors

Note:
H=Offset=min. 11.81in/300mm



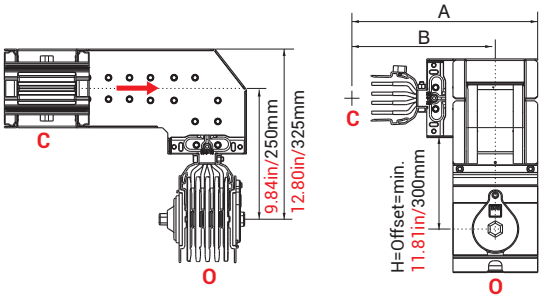
Right Downwards Combined Offset -K R D



Sample Order:

KXC-III 32507-B-KRD
3300 A, Copper, Bolt-on,
IP 55, 4 1/2 conductors

Note:
H=Offset=min. 11.81in/300mm

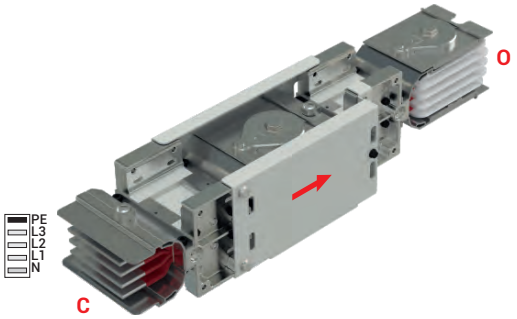


- Special left or right elbows between 90° and 180° can be manufactured upon request.
- The dimensions given above are minumum values.

KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000	-	-	5000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40	-	-	50
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-	5000	6000	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-	50	60	-
A	(inch)	10.12	10.51	10.71	11.10	11.30	12.08	12.68	13.86	15.63	17.99	16.81	17.99	20.35	24.69	26.26	30.20	28.62	33.35	35.71
	(mm)	257	267	272	282	287	307	322	352	397	457	427	457	517	627	667	767	727	847	907
B	(inch)	8.54	8.74	8.82	9.02	9.13	9.49	9.80	10.39	11.26	12.44	11.85	12.44	13.62	15.79	16.57	18.54	17.76	20.12	21.30
	(mm)	217	222	224	229	232	241	249	264	286	316	301	316	346	401	421	471	451	511	541
$H=Offset_{max}$	(inch)	17.00	17.40	17.60	17.99	18.19	18.98	19.57	20.75	22.52	24.88	23.70	24.88	27.24	31.57	33.15	37.48	41.42	46.14	48.50
	(mm)	432	442	447	457	462	482	497	527	572	632	602	632	692	802	842	952	1052	1172	1232

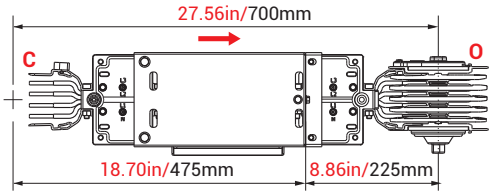
Reduction

-RD □□
Reduced Busway Current



Sample Order:

KXA-III 20507-B-RD17
2000A / 1600A, Aluminium,
Bolton, IP 55, 4 1/2 conductors



Is used to change the busway cross section.

Note:
Decisions and selection of reduction module and protection on lower side is under the customer's responsibility.

Reducers Table

KXA-III Al conductors

Rated Current	Reduced Busway Current										
	400	550	630	800	1000	1300	1600	2000	2500	3200	4000
550	✓	-	-	-	-	-	-	-	-	-	-
630	✓	✓	-	-	-	-	-	-	-	-	-
800	-	✓	✓	-	-	-	-	-	-	-	-
1000	-	-	✓	✓	-	-	-	-	-	-	-
1300	-	-	-	✓	✓	-	-	-	-	-	-
1600	-	-	-	-	✓	✓	-	-	-	-	-
2000	-	-	-	-	-	✓	-	-	-	-	-
2500	-	-	-	-	-	-	✓	✓	-	-	-
3200	-	-	-	-	-	-	-	✓	✓	-	-
4000	-	-	-	-	-	-	-	-	✓	✓	-
5000	-	-	-	-	-	-	-	-	-	✓	✓

1 ↓ 2 →

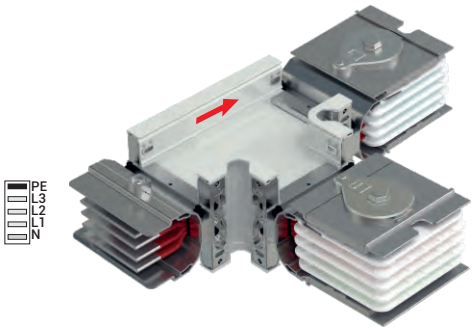
KXC-III Cu conductors

Rated Current	Reduced Busway Current											
	630	800	1000	1250	1350	1600	2000	2000	2500	3200	4000	5000
800	✓	-	-	-	-	-	-	-	-	-	-	
1000	✓	✓	-	-	-	-	-	-	-	-	-	
1250	-	✓	✓	-	-	-	-	-	-	-	-	
1350	-	-	✓	✓	-	-	-	-	-	-	-	
1600	-	-	-	✓	✓	-	-	-	-	-	-	
2000	-	-	-	-	✓	✓	-	-	-	-	-	
2000	-	-	-	-	-	✓	-	-	-	-	-	
2500	-	-	-	-	-	-	✓	✓	-	-	-	
3200	-	-	-	-	-	-	-	✓	✓	-	-	
4000	-	-	-	-	-	-	-	-	✓	✓	-	
5000	-	-	-	-	-	-	-	-	-	✓	✓	
6000												

1 ↓ 2 →

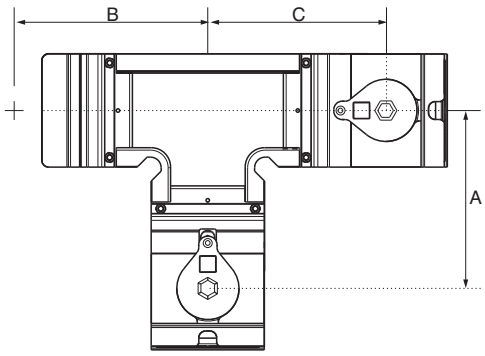
■ See table below for ratings and busway codes.
■ The dimensions given above are minumum values.
■ Please call us for non-standard components.

Right Side Feeder "T" -T Y R

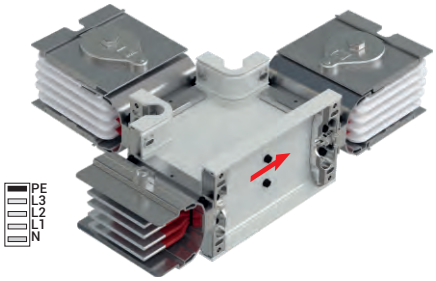


Sample Order:

KXC-III 25507-B-TYR
2500 A, Copper, Bolt-on,
IP 55, 4 1/2 conductors

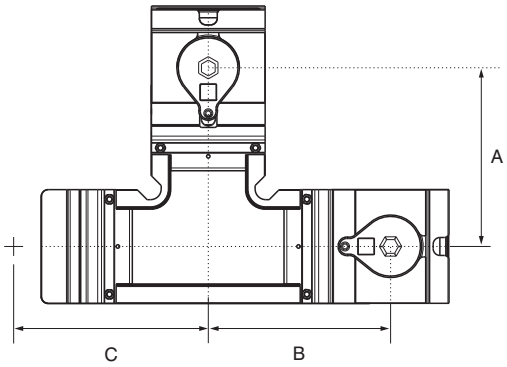


Left Side Feeder "T" -T Y L

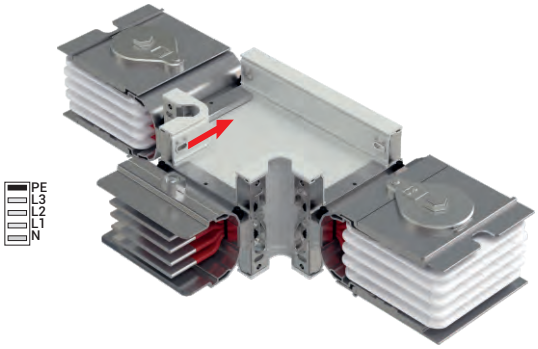


Sample Order:

KXA-III 25507-B-TYL
2500 A, Aluminium, Bolt-on,
IP 55, 4 1/2 conductors

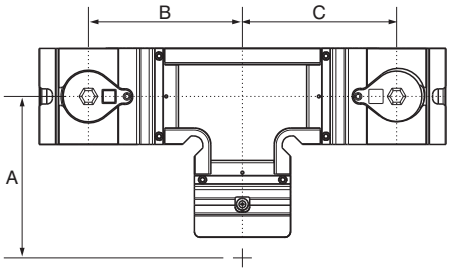


Central Feeder "T" -T O



Sample Order:

KXC-III 32507-B-TO
3300 A, Copper, Bolt-on,
IP 55, 4 1/2 conductors



- The dimensions given above are minumum values.
- Please call us for non-standard components.

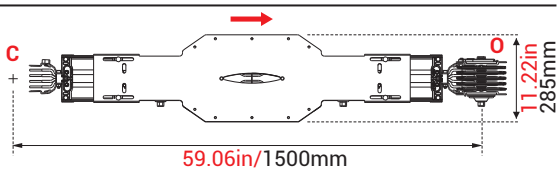
KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000	-	-	5000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40	-	-	50
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-	5000	6000	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-	50	60	-
A	(inch)	8.50	8.70	8.82	9.02	9.13	9.49	9.80	10.39	11.26	12.44	11.85	12.44	13.62	15.79	16.57	18.54	17.76	20.12	21.30
	(mm)	216	221	224	229	232	241	249	264	286	316	301	316	346	401	421	471	451	511	541
B	(inch)	8.50	8.70	8.82	9.02	9.13	9.49	9.80	10.39	11.26	12.44	11.85	12.44	13.62	15.79	16.57	18.54	17.76	20.12	21.30
	(mm)	216	221	224	229	232	241	249	264	286	316	301	316	346	401	421	471	451	511	541
C	(inch)	8.50	8.70	8.82	9.02	9.13	18.98	9.80	10.39	11.26	12.44	11.85	12.44	13.62	15.79	16.57	18.54	17.76	20.12	21.30
	(mm)	216	221	224	229	232	241	249	264	286	316	301	316	346	401	421	471	451	511	541

Vertical Expansion - B D T

Sample Order:

KXA-III 25507-B-BDT
2500A, Aluminium, Bolton,
IP 55, 4 1/2 conductors

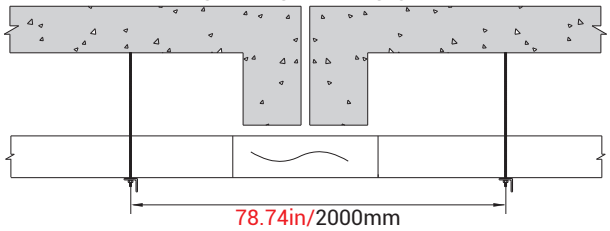
BDT Vertical Expansion



Sample Order:

KXA-III 25507-B-BDT
2500A, Aluminium, Bolton,
IP 55, 4 1/2 conductors

BUILDING EXPANSION



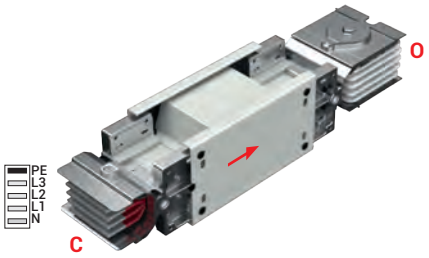
BDT BUILDING EXPANSION APPLICATION

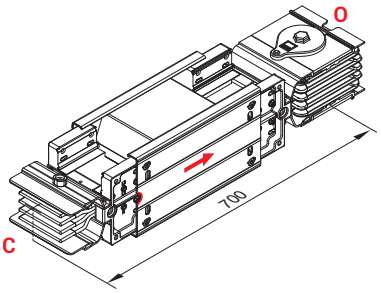
Vertical Expansion -D D T

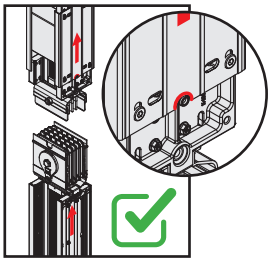
Sample Order:

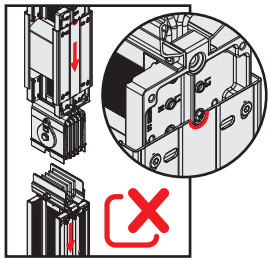
KXC-III 20507-B-DDT
2000A, Copper, Bolton,
IP 55, 4 1/2 conductors

One vertical expansion unit is advised to be used at every floor between fixed support points. Used for vertical applications in multi storey buildings.





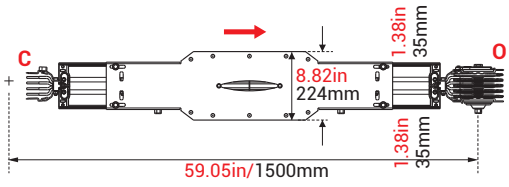


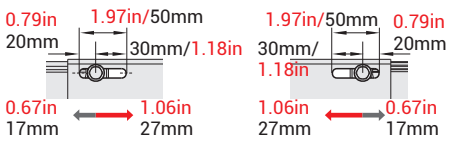


Horizontal Expansion -Y D T

Sample Order:

KXA-III 25507-B-YDT
2500A, Aluminium, Bolton,
IP 55, 4 1/2 conductors





Attention!
The total length of the module should be adjusted to **59.05in/1500mm.** after installation.
Used at every 131ft/40m in long horizontal straight lines and building expansion points.

Note:
1) Horizontal expansion joint should be utilised if busway line is crossing to adjacent through building expansion joints.

2) This module is used on the long busway line (>246ft/>75m) where line is ended by end closure and is not fixed on the support rigidly.

3) Horizontal expansion joint has sufficient movement span of 2.13in/54mm

EAE requests to be consulted during design stage.

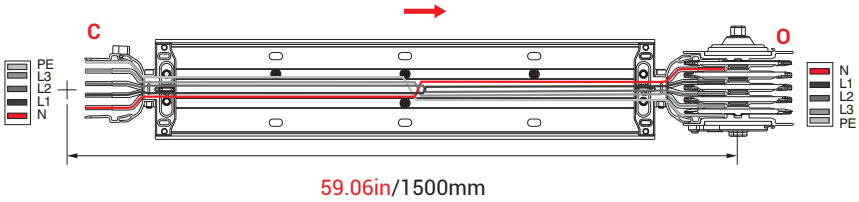
■Please call us for non-standard components.

■The dimensions given above are minumum values.

Phase Transposition Module **- F D M**

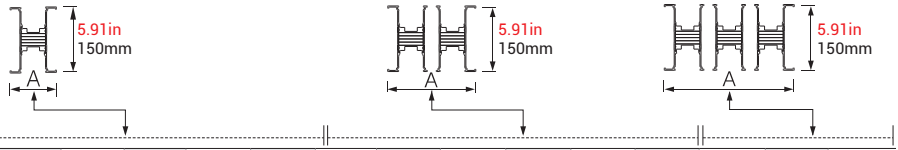
Sample Order:

KXA-III 25507-B-FDM
2500A, Aluminium, Bolton,
IP 55, 4 1/2 conductors

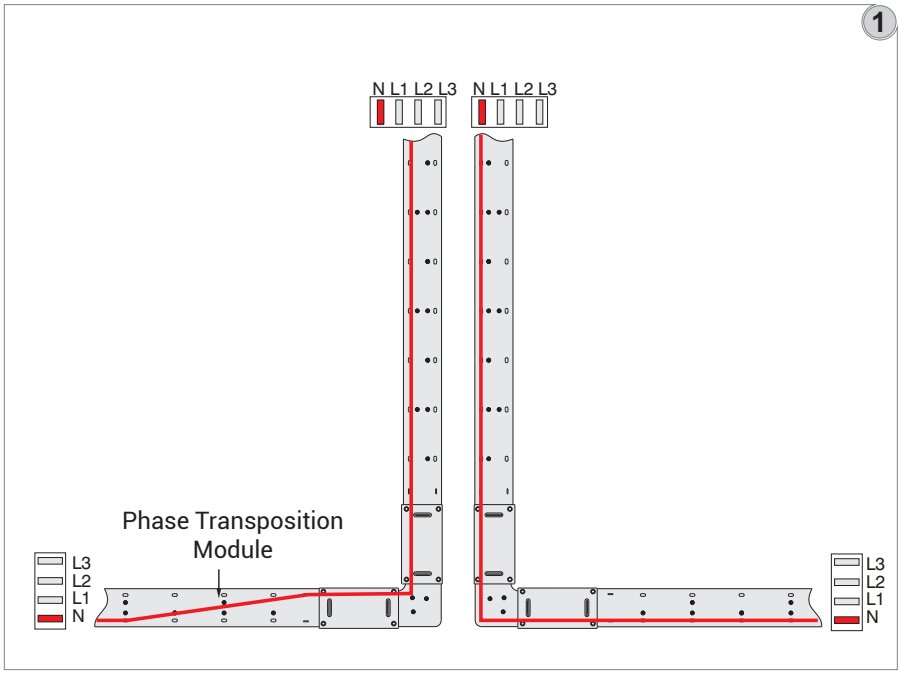


They used for transposition of phase sequence.

FDM Dimension Table



KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000	-	-	5000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40	-	-	50
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-	5000	6000	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-	50	60	-
A	(inch)	3.25	3.58	3.78	4.17	4.37	5.16	5.75	6.93	8.70	11.06	9.92	11.10	13.46	17.80	19.37	23.31	21.73	26.46	28.82
	(mm)	82.5	91	96	106	111	131	146	176	221	281	252	282	342	452	492	592	552	672	732



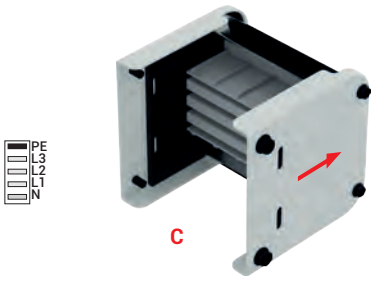
1- The neutral bar of KX busway shall be at the bottom for horizontal busway lines and on the left for vertical busway lines.(Figure 1)

2- In order to maintain the neutral bar at the bottom and in the vertical busway on the left, it is required to use the phase transposition module. (Figure 1)

■Please call us for non-standard components.

■The dimensions given above are minumum values.

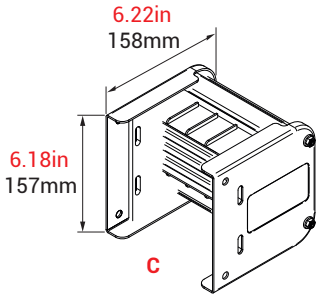
End Closer - S



Sample Order:

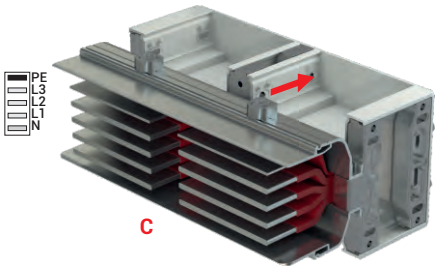
KX-III 205A/255C-B-S
2000 A, Aluminium, 2500 A, Copper
Bolt-on, IP 55, 4.5/5/6 conductors

End Closer
Is used to close the end of busway run.



KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-
Dimension	(mm)	6x30	6x40	6x45	6x55	6x60	6x80	6x95	6x125	6x170	6x230	2(6x80)	2(6x95)	2(6x125)	2(6x180)	2(6x200)	2(6x250)
Order Code		3066131	3016698	3141273	3016699	3142393	3016701	3085740	3016703	3142394	3135702	3016708	3135702	3016711	3188181	3113536	3127359

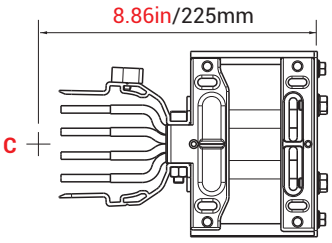
End Closer - S10



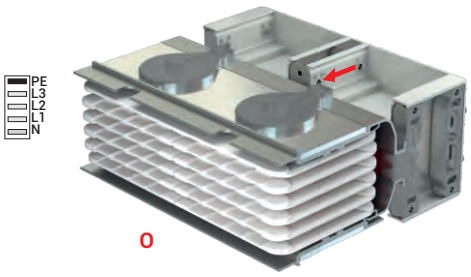
Sample Order:

KXC-III 63506-B-S10
6300 A, Copper, Bolt-on,
IP 55, 6 conductors

Note: S10 or S11 modules should be used as end closer for the busways with 08. 06 codes and for all IP55 products.



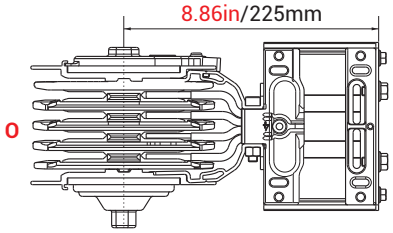
End Closer - S11



Sample Order:

KXA-III 50506-B-S11
5000 A, Aluminium, Bolt-on,
IP 55, 6 conductors

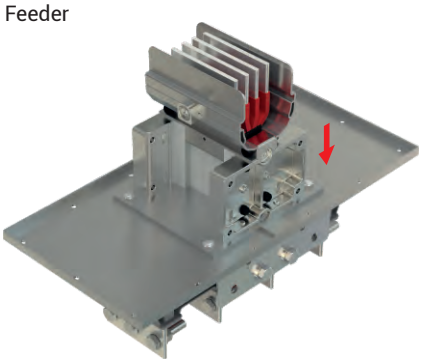
Note: S10 or S11 modules should be used as end closer for the busways with 08. 06 codes and for all IP55 products.



■Please call us for non-standard components.

■The dimensions given above are minumum values.

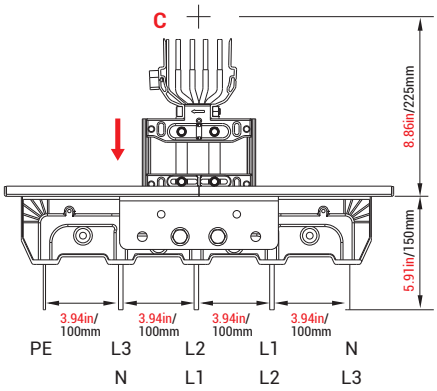
Panel Connection - P 1 0
Panel Feeder



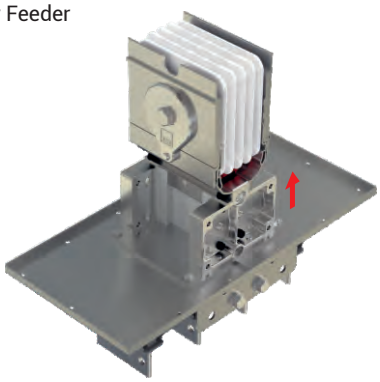
Sample Order:

KXC-III 25507-B-P10
2500 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder



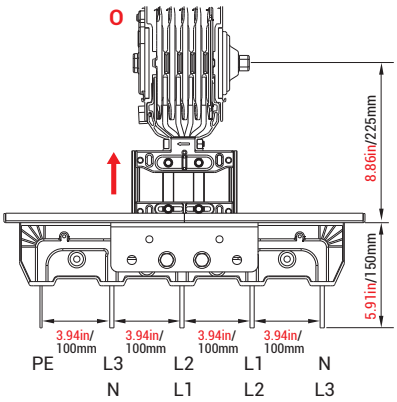
Panel Connection - P 1 1
Busway Feeder



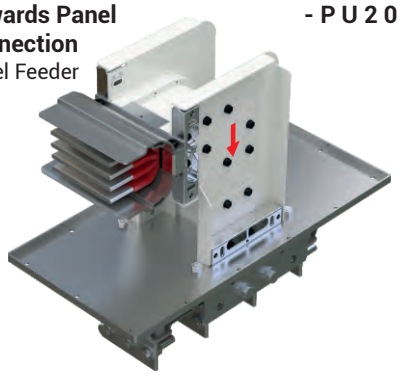
Sample Order:

KXC-III 25507-B-P11
2500 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder



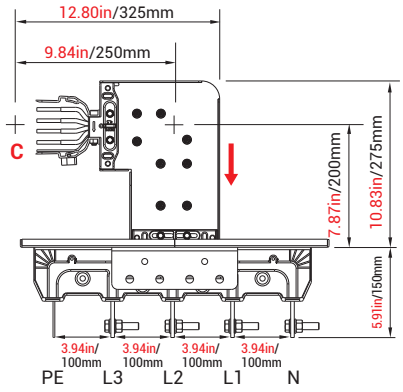
Upwards Panel Connection - P U 2 0
Panel Feeder



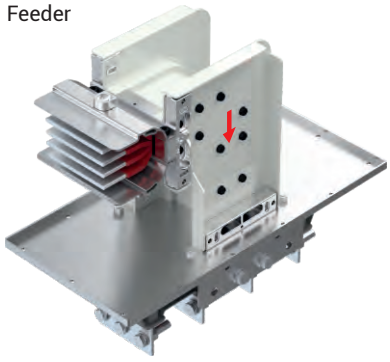
Sample Order:

KXC-III 36507-B-PU20
3600 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder



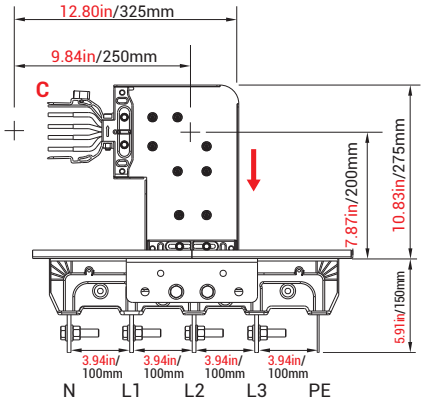
Downwards Panel Connection - P D 2 0
Panel Feeder



Sample Order:

KXC-III 43507-B-PD20
4250 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder

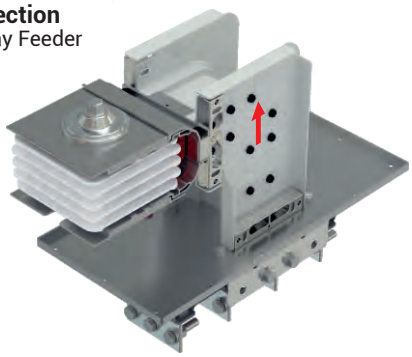


For connection dimensions please refer to tables on pages 24 and 25.

- Distance between conductors can vary in 0.20in./±5 mm
- Please call us for non-standard components.
- The dimensions given above are minumum values.

Upwards Busway Connection - P U 2 1

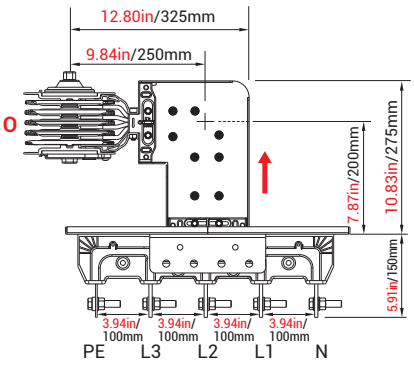
Busway Feeder



Sample Order:

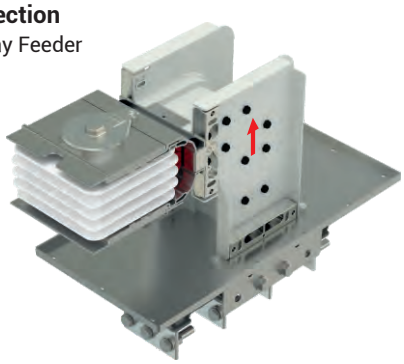
KXC-III 36507-B-PU21
3600 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder



Downwards Busway Connection - P D 2 1

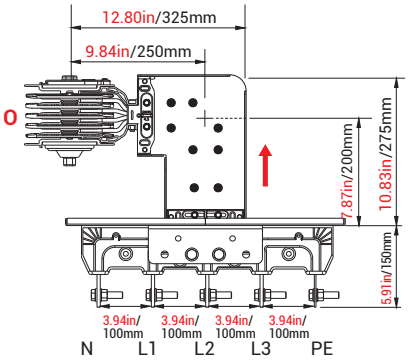
Busway Feeder



Sample Order:

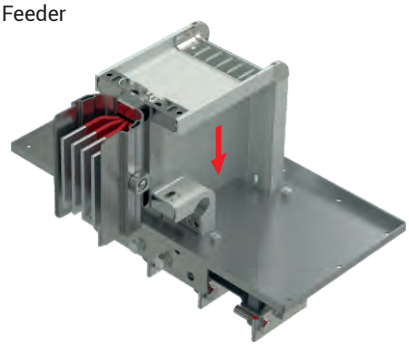
KXC 43507-B-PD21
4250 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder



Right Panel Connection - P R 3 0

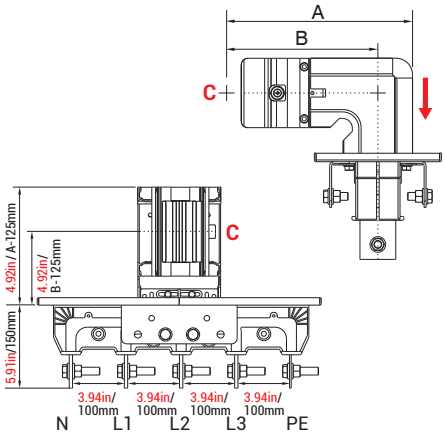
Panel Feeder



Sample Order:

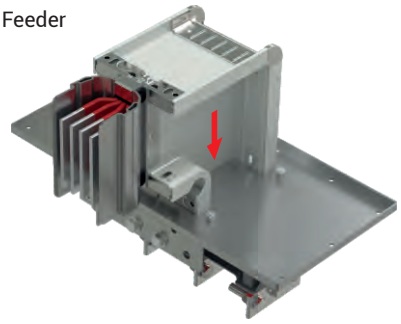
KXC 25507-B-PR30
3600 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder



Left Panel Connection - P L 3 0

Panel Feeder

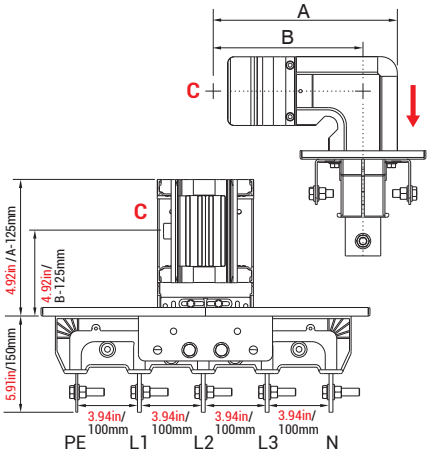


Sample Order:

KXC 25507-B-PL30
2500 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder

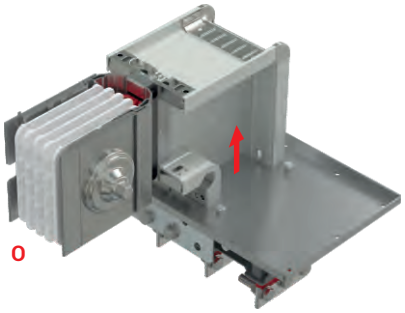
The "A" and "B" dimensions for PR30 and PL30 are the same dimensions as left and right elbows.
Please refer to page 12 for the dimensions.



For connection dimensions please refer to tables on pages 24 and 25.

- Distance between conductors can vary in 0.20in./±5 mm
- Please call us for non-standard components.
- The dimensions given above are minumum values.

Right Panel Connection - P R 3 1
Busway Feeder

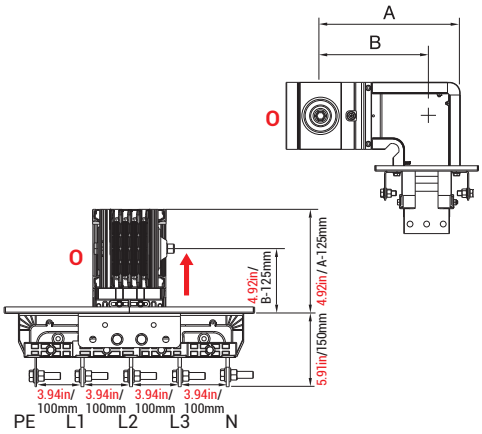


Sample Order:

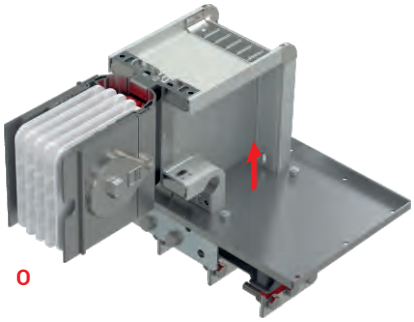
KXC-III 25507-B-PR31
2500 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder

The "A" and "B" dimensions for PR31 and PL31 are the same dimensions as left and right elbows.
Please refer to page 12 for the dimensions.



Left Panel Connection - P L 3 1
Busway Feeder

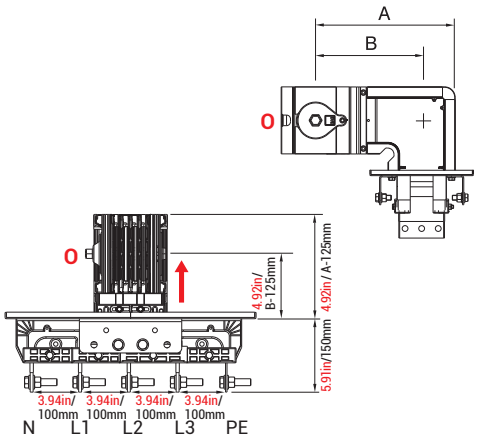


Sample Order:

KXC-III 25507-B-PL31
2500 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Busway Feeder

The "A" and "B" dimensions for PR31 and PL31 are the same dimensions as left and right elbows.
Please refer to page 12 for the dimensions.

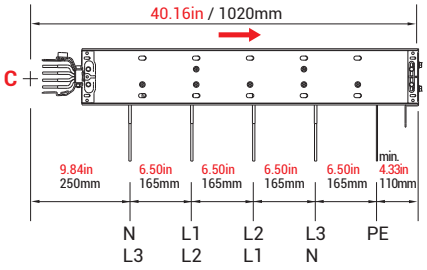


Panel Connection - P 4 0
Panel Feeder

Sample Order:

KXC-III 32507-B-P40
3300 A, Copper, Bolton,
IP 55, 4 1/2 conductors

for Panel Feeder

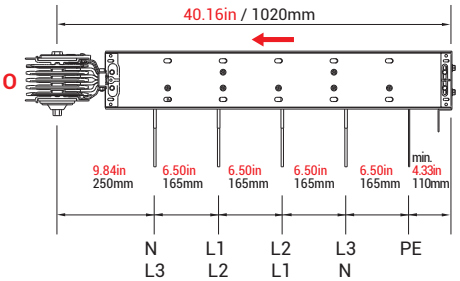


Panel Connection - P 4 1
Panel Feeder

Sample Order:

KXC-III 32507-B-P41
3300 A, Copper, Bolton,
IP 55, 4 1/2 conductors

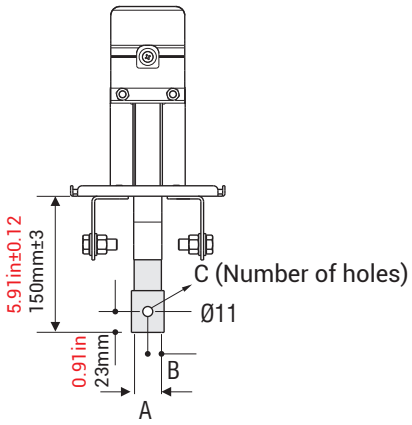
for Busway Feeder



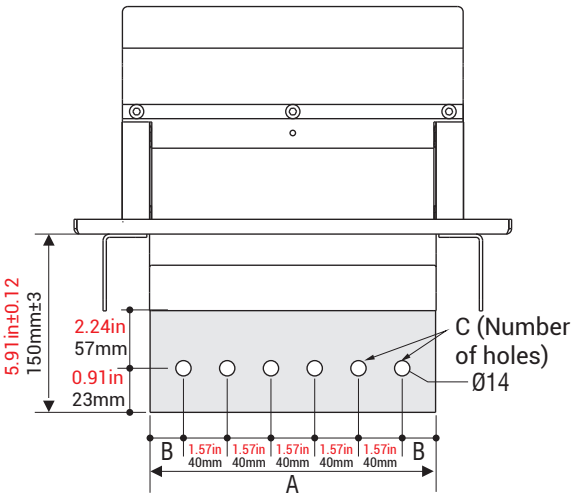
For connection dimensions please refer to tables on pages 24 and 25.

- Distance between conductors can vary in ±5 0.20in./±5 mm
- The dimensions given above are minumum values.
- Please call us for non-standard components.

Panel Connection Units
For all Panel Connection Units

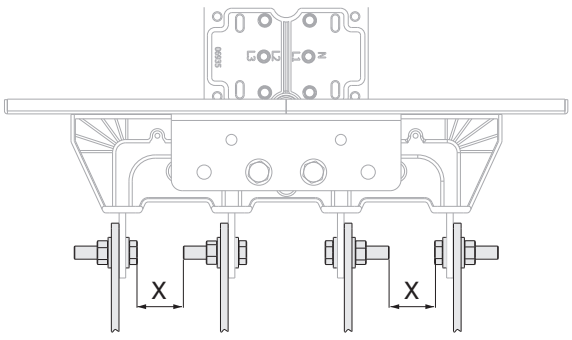


Al conductors	Cu conductors	Section		A		B		C
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(piece)
KXA-III 04	-	0.24x1.18	6x30	1.18	30	0.59	15	1



Al conductors	Cu conductors	Section		A		B		C
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(piece)
KXA-III 05	KXC-III 06	0.24x1.57	6x40	1.57	40	0.79	20	1
-	KXC-III 08	0.24x1.77	6x45	1.77	45	0.89	22.5	1
KXA-III 06	-	0.24x2.17	6x55	2.17	55	1.08	27.5	1
-	KXC-III 10	0.24x2.36	6x60	2.36	60	1.18	30	1
KXA-III 08	KXC-III 12	0.24x3.15	6x80	3.15	80	0.79	20	2
KXA-III 10	KXC-III 13	0.24x3.74	6x95	3.74	95	1.08	27.5	2
KXA-III 13	KXC-III 16	0.24x4.92	6x125	4.92	125	0.89	22.5	3
KXA-III 16	KXC-III 20	0.24x6.69	6x170	6.69	170	0.98	25	4
KXA-III 20	-	0.24x9.06	6x230	9.06	230	0.59	15	6
-	KXC-III 21	2(0.24x3.15)	2(6x80)	7.87	200	0.79	20	5
-	KXC-III 25	2(0.24x3.74)	2(6x95)	9.06	230	0.59	15	6
KXA-III 25	KXC-III 32	2(0.24x4.92)	2(6x125)	11.42	290	0.98	25	7
-	KXC-III 40	2(0.24x7.09)	2(6x180)	15.75	400	0.79	20	10
KXA-III 32	-	2(0.24x7.87)	2(6x200)	17.32	440	0.79	20	11
KXA-III 40	-	2(0.24x9.84)	2(6x250)	21.26	540	1.18	30	13
-	KXC-III 50	3(0.24x5.51)	3(6x140)	19.69	500	1.18	30	12
-	KXC-III 60	3(0.24x7.09)	3(6x180)	24.41	620	1.18	30	15
KXA-III 50	-	3(0.24x7.87)	3(6x200)	26.77	680	0.79	20	17

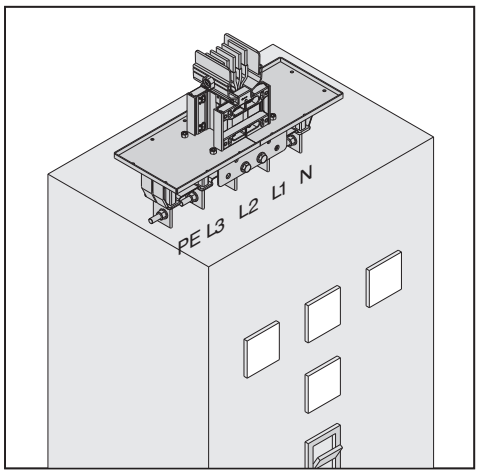
Sample Connection

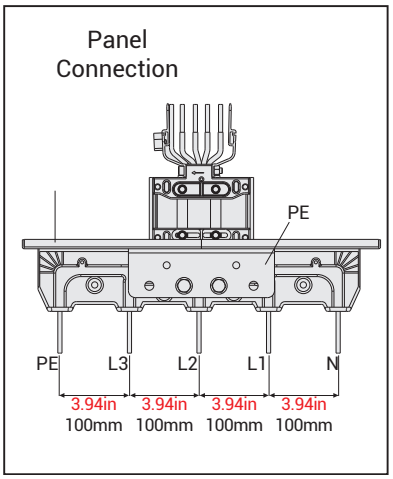


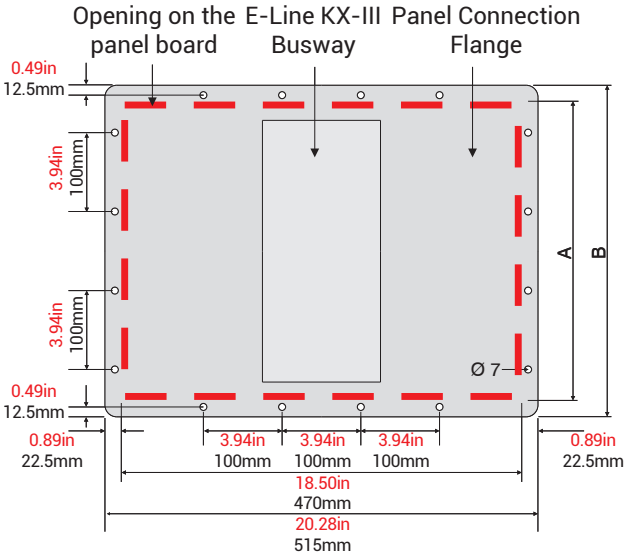
(Minimum X= 0.98in/25 mm)

■Please call us for non-standard components. ■Distance between conductors can vary in ±5 0.20in./±5 mm ■The dimensions given above are minumum values.

Flange Dimensions
Panel Connection Units are supplied with suitable flange as standard.



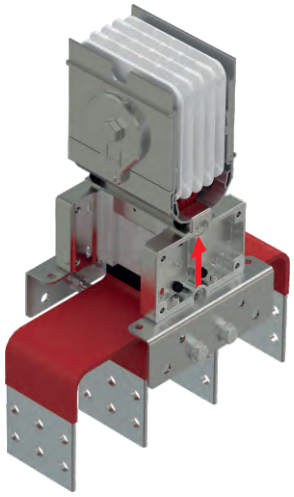




* Bolt and nut sets are supplied together with related product as per the quantities below.

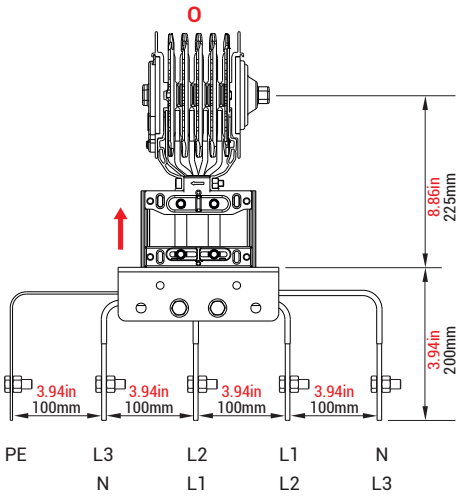
Aluminium (Al)		Copper (Cu)									
Rated Current	Busway Code	Rated Current	Busway Code	Conductor Size		A		B		Number of the holes along B length	* M6 Bolt/ Nut Set(pcs)
				(inch)	(mm)	(inch)	(mm)	(inch)	(mm)		
400	04	-	-	0.24x1.18	6x30	4.92	125	6.69	170	2	12
550	05	630	06	0.24x1.57	6x40	5.31	135	7.09	180	2	12
-	-	800	08	0.24x1.77	6x45	5.51	140	7.28	185	2	12
630	06	-	-	0.24x2.17	6x55	5.91	150	7.68	195	2	12
-	-	1000	10	0.24x2.36	6x60	6.10	155	7.87	200	2	12
800	08	1250	12	0.24x3.15	6x80	6.89	175	8.66	220	2	12
1000	10	1350	14	0.24x3.74	6x95	7.48	190	9.25	235	3	14
1300	13	1600	16	0.24x4.92	6x125	8.66	220	10.43	265	3	14
1600	17	2000	20	0.24x6.69	6x170	10.43	265	12.20	310	3	14
2000	20	-	-	0.24x9.06	6x230	12.80	325	14.57	370	4	16
-	-	2000	22	2(0.24x3.15)	2(6x80)	11.61	295	13.39	340	3	14
-	-	2500	26	2(0.24x3.74)	2(6x95)	12.80	325	14.57	370	4	16
2500	25	3200	32	2(0.24x4.92)	2(6x125)	15.16	385	16.93	430	4	16
-	-	4000	40	2(0.24x7.09)	2(6x180)	19.49	495	21.26	540	5	19
3200	33	-	-	2(0.24x7.87)	2(6x200)	21.06	535	22.83	580	6	20
4000	40	-	-	2(0.24x9.84)	2(6x250)	25.00	635	26.77	680	7	22
-	-	5000	50	3(0.24x5.51)	3(6x140)	23.43	595	25.20	640	7	22
-	-	6000	60	3(0.24x7.09)	3(6x180)	28.15	715	29.92	760	8	24
5000	50	-	-	3(0.24x7.87)	3(6x200)	30.51	775	32.28	820	8	24

Transformer Connection - T R 1 1

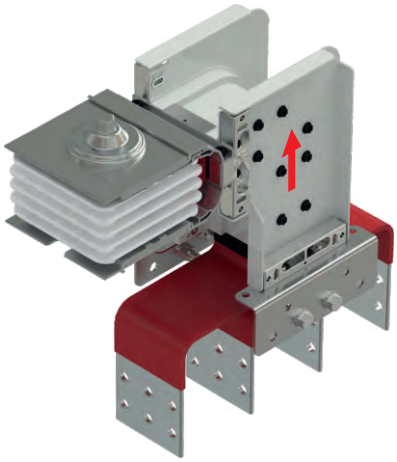


Sample Order:

KXA-III 25507-B-TR11
2500 A, Aluminium, Bolton,
IP 55, 4 1/2 conductors

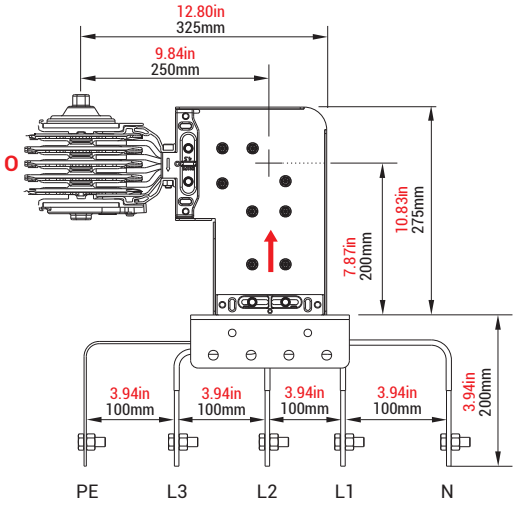


Upwards Transformer Connection - T U 2 1

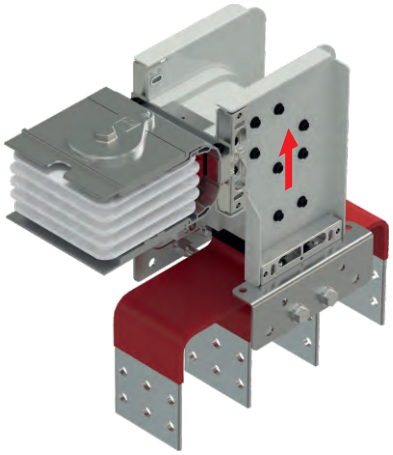


Sample Order:

KXC-III 25507-B-PL21
2500 A, Copper, Bolton,
IP 55, 4 1/2 conductors

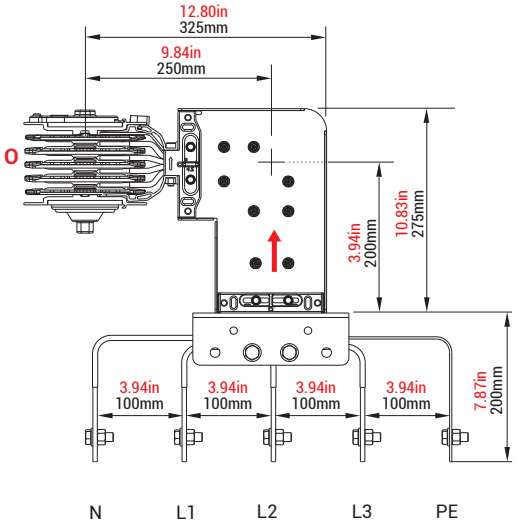


Downwards Transformer Connection - T D 2 1



Sample Order:

KXA-III 25504-B-TD21
2500 A, Aluminium, Bolton,
IP 55, 4 1/2 conductors



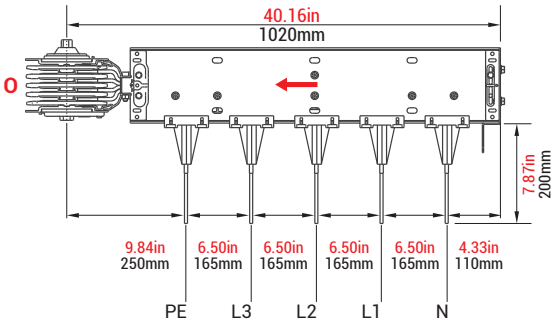
For connection dimensions please refer to tables on pages 29 and 30.

- Distance between conductors can vary in ±5 0.20in./±5 mm
- Please call us for non-standard components.
- The dimensions given above are minumum values.

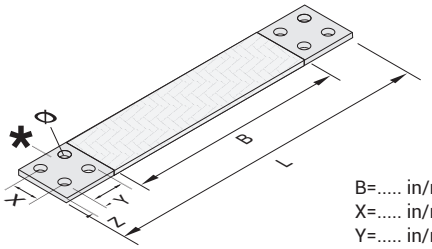
Transformer Connection - T R 3 1

Sample Order:

KXC-III 25507-B-TR31
2500 A, Copper, Bolton,
IP 55, 4 1/2 conductors



Flexibles - F □□ (L in/cm)



*This side is punched according to the needs of the custommer.

B=..... in/mm
X=..... in/mm
Y=..... in/mm
Z=..... in/mm
ø=..... in/mm

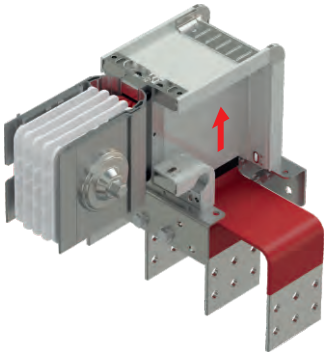
Sample Order:

KXA 0800-F40
800 A, Aluminium

Flexible are used for

- Transformer - busway.
- Panel - busway connections.

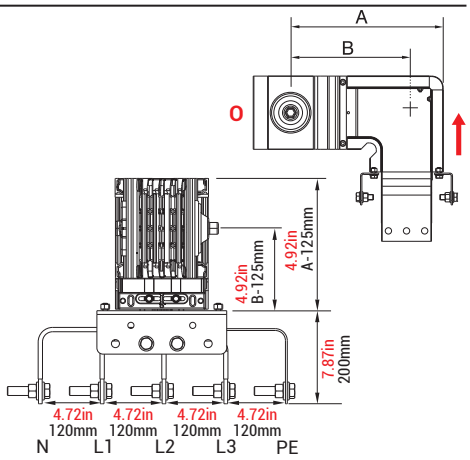
Right Transformer Connection - T R 5 1



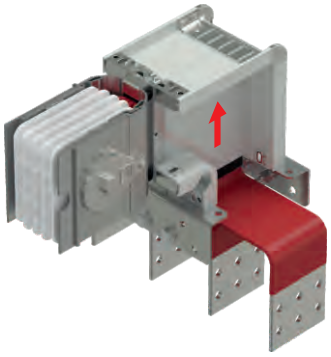
Sample Order:

KXC-III 25507-B-TR51
2500 A, Copper, Bolton,
IP 55, 4 1/2 conductors

A and B dimensions of TR51 and TL51 are same as left and right elbows. Please refer to page 12 for the dimensions.



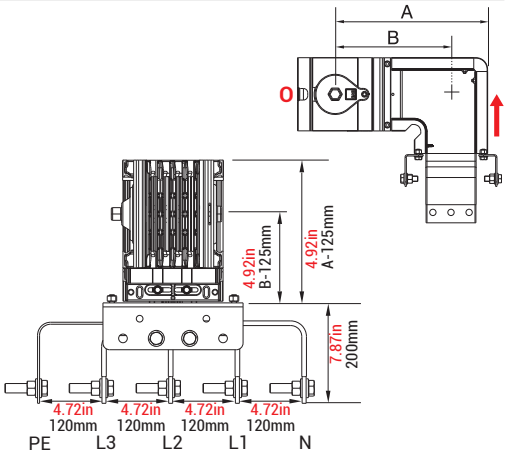
Left Transformer Connection - T L 5 1



Sample Order:

KXA-III 25507-B-TL51
2500 A, Aluminium, Bolton,
IP 55, 4 1/2 conductors

A and B dimensions of TR51 and TL51 are same as left and right elbows. Please refer to page 12 for the dimensions.



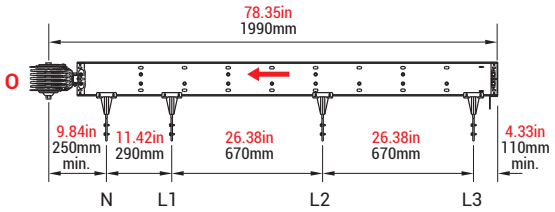
For connection dimensions please refer to tables on page 30.

- Distance between conductors can vary in ±5 0.20in./±5 mm
- Please call us for non-standard components.
- The dimensions given above are minumum values.

Transformer Connection - T R 4 1

Sample Order:

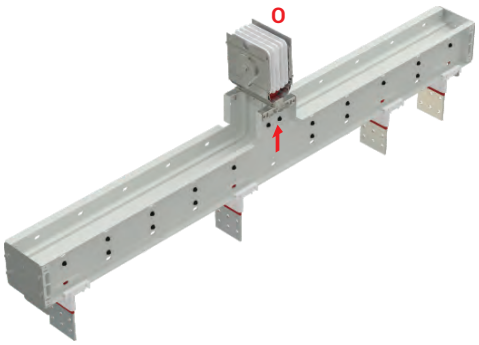
KXC-III 25507-B-TR41
3200 A, Copper, Bolton,
IP 55, 4 1/2 conductors

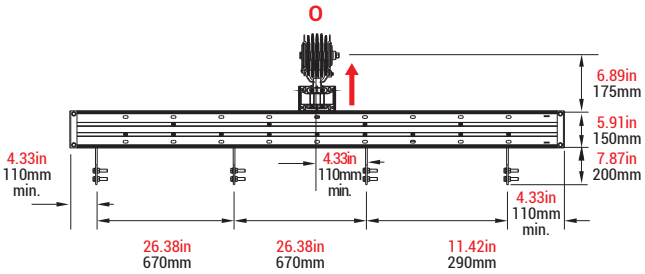


Transformer Connection - T R 6 1

Sample Order:

KXC-III 36507-B-TR61
3600 A, Copper, Bolton,
IP 55, 4 1/2 conductors

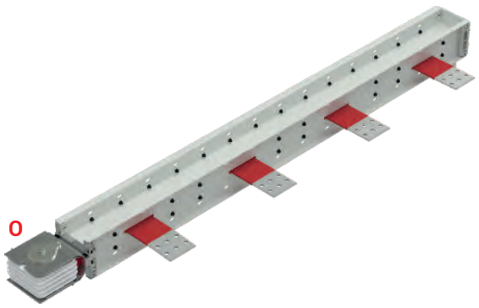


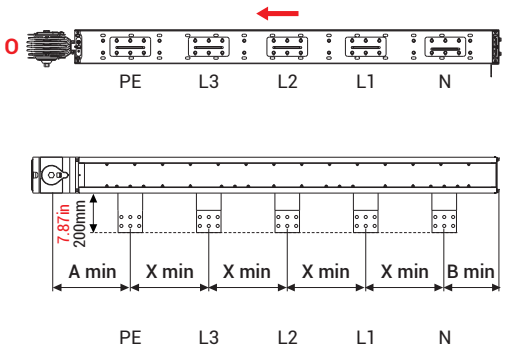


Transformer Connection - T R 7 1

Sample Order:

KXC-III 40507-B-TR71
4000 A, Copper, Bolt-on,
IP 55, 4 1/2 conductors





- Distance between conductors can vary in ±0.20in./±5 mm
- Please call us for non-standard components.
- The dimensions given above are minumum values.

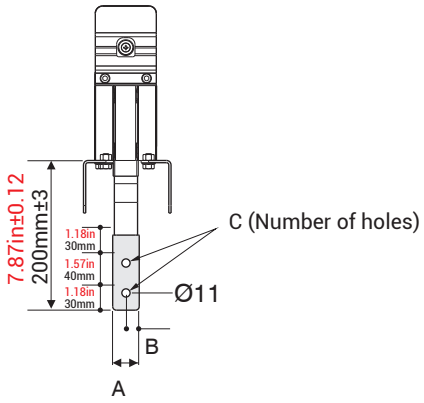
For connection dimensions please refer to tables on page 30.

KXA-III Al Conductors	Rated Current (A)	400	550	-	630	-	800	1000	1300	1600	2000	-	-	2500	-	3200	4000	-	-	5000
	Busway Code	04	05	-	06	-	08	10	13	17	20	-	-	25	-	33	40	-	-	50
KXC-III Cu Conductors	Rated Current (A)	-	630	800	-	1000	1250	1350	1600	2000	-	2000	2500	3200	4000	-	-	5000	6000	-
	Busway Code	-	06	08	-	10	12	14	16	20	-	22	26	32	40	-	-	50	60	-
A_{min}	(inch)	10.12	10.51	10.71	11.10	11.30	12.08	12.68	13.86	15.63	17.99	16.81	17.99	20.35	24.69	26.26	30.20	28.62	33.35	35.71
	(mm)	257	267	272	282	287	307	322	352	397	457	427	457	517	627	667	767	727	847	907
B_{min}	(inch)	8.54	8.74	8.82	9.02	9.13	9.49	9.80	10.39	11.26	12.44	11.85	12.44	13.62	15.79	16.57	18.54	17.76	20.12	21.30
	(mm)	217	222	224	229	232	241	249	264	286	316	301	316	346	401	421	471	451	511	541
X_{min}	(inch)	17.00	17.40	17.60	17.99	18.19	18.98	19.57	20.75	22.52	24.88	23.70	24.88	27.24	31.57	33.15	37.48	41.42	46.14	48.50
	(mm)	432	442	447	457	462	482	497	527	572	632	602	632	692	802	842	952	1052	1172	1232

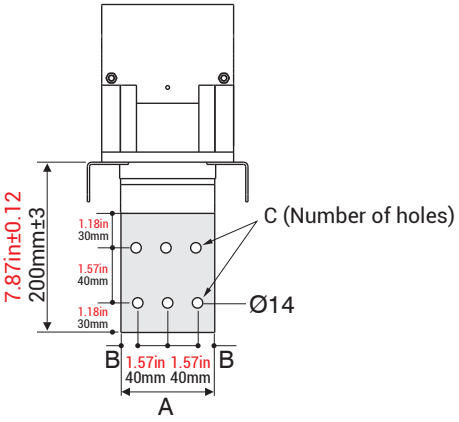
Transformer Connection Units

Transformer Connection Units (TR31. TR41. TR61)

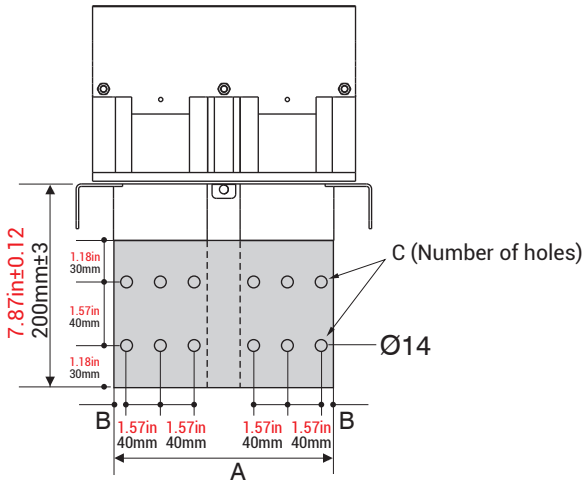
Note: No flange supplied with transformer connection units.



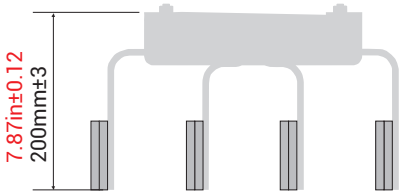
Al conductors	Cu conductors	Section		A		B		C
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(piece)
KXA-III 04	-	0.24x1.18	6x30	1.18	30	0.59	15	1



Al conductors	Cu conductors	Section		A		B		C
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(piece)
KXA-III 05	KXC-III 06	0.24x1.57	6x40	1.57	40	0.79	20	1+1
-	KXC-III 08	0.24x1.77	6x45	1.77	45	0.89	22.5	1+1
KXA-III 06	-	0.24x2.17	6x55	2.17	55	1.08	27.5	1+1
-	KXC-III 10	0.24x2.36	6x60	2.36	60	1.18	30	1+1
KXA-III 08	KXC-III 12	0.24x3.15	6x80	3.15	80	0.79	20	2+2
KXA-III 10	KXC-III 13	0.24x3.74	6x95	3.74	95	1.08	27.5	2+2
KXA-III 13	KXC-III 16	0.24x4.92	6x125	4.92	125	0.89	22.5	3+3
KXA-III 16	KXC-III 20	0.24x6.69	6x170	6.69	170	0.98	25	4+4
KXA-III 20	-	0.24x9.06	6x230	9.06	230	0.59	15	6+6



Al conductors	Cu conductors	Section		A		B		C
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(piece)
-	KXC-III 21	2(0.24x3.15)	2(6x80)	7.87	200	0.79	20	4+4
-	KXC-III 25	2(0.24x3.74)	2(6x95)	9.06	230	1.08	27.5	4+4
KXA-III 25	KXC-III 32	2(0.24x4.92)	2(6x125)	11.42	290	0.89	22.5	6+6
-	KXC-III 40	2(0.24x7.09)	2(6x180)	15.75	400	1.18	30	8+8
KXA-III 32	-	2(0.24x7.87)	2(6x200)	17.32	440	0.79	20	10+10
KXA-III 40	-	2(0.24x9.84)	2(6x250)	21.26	540	0.89	22.5	12+12
-	KXC-III 50	3(0.24x5.51)	3(6x140)	19.69	500	1.18	30	9+9
-	KXC-III 60	3(0.24x7.09)	3(6x180)	24.41	620	1.18	30	12+12
KXA-III 50	-	3(0.24x7.87)	3(6x200)	26.77	680	0.79	20	15+15

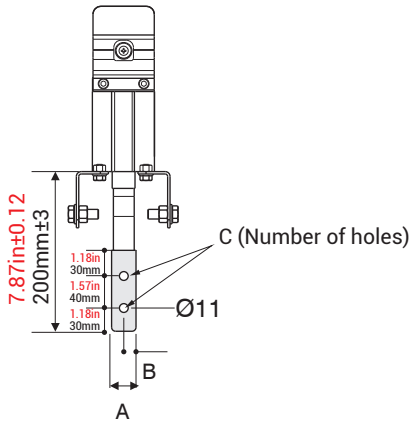


- Please call us for non-standard components.
- Distance between conductors can vary in ±0.20in./±5 mm
- The dimensions given above are minumum values.

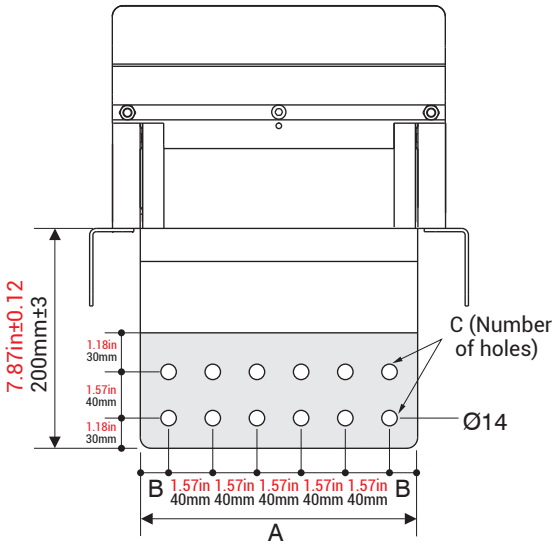
Transformer Connection Units

Transformer Connection Units (TR11. TU21. TD21. TR51. TL51)

Note: No flange supplied with transformer connection units.

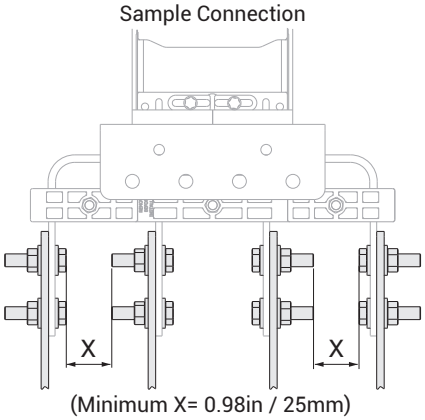


Al conductors	Cu conductors	Section		A		B		C
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(piece)
KXA-III 04	-	0.24x1.18	6x30	1.18	30	0.59	15	1



Al conductors	Cu conductors	Section		A		B		C
		(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(piece)
KXA-III 05	KXC-III 06	0.24x1.57	6x40	1.57	40	0.79	20	1+1
-	KXC-III 08	0.24x1.77	6x45	1.77	45	0.89	22.5	1+1
KXA-III 06	-	0.24x2.17	6x55	2.17	55	1.08	27.5	1+1
-	KXC-III 10	0.24x2.36	6x60	2.36	60	1.18	30	1+1
KXA-III 08	KXC-III 12	0.24x3.15	6x80	3.15	80	0.79	20	2+2
KXA-III 10	KXC-III 13	0.24x3.74	6x95	3.74	95	1.08	27.5	2+2
KXA-III 13	KXC-III 16	0.24x4.92	6x125	4.92	125	0.89	22.5	3+3
KXA-III 16	KXC-III 20	0.24x6.69	6x170	6.69	170	0.98	25	4+4
KXA-III 20	-	0.24x9.06	6x230	9.06	230	0.59	15	6+6
-	KXC-III 21	2(0.24x3.15)	2(6x80)	7.87	200	0.79	20	5+5
-	KXC-III 25	2(0.24x3.74)	2(6x95)	9.06	230	0.59	15	6+6
KXA-III 25	KXC-III 32	2(0.24x4.92)	2(6x125)	11.42	290	0.98	25	7+7
-	KXC-III 40	2(0.24x7.09)	2(6x180)	15.75	400	0.79	20	10+10
KXA-III 32	-	2(0.24x7.87)	2(6x200)	17.32	440	0.79	20	11+11
KXA-III 40	-	2(0.24x9.84)	2(6x250)	21.26	540	1.18	30	13+13
-	KXC-III 50	3(0.24x5.51)	3(6x140)	19.69	500	1.18	30	12+12
-	KXC-III 60	3(0.24x7.09)	3(6x180)	24.41	620	1.18	30	15+15
KXA-III 50	-	3(0.24x7.87)	3(6x200)	26.77	680	0.79	20	17+17

Sample Connection



(Minimum X= 0.98in / 25mm)

- Please call us for non-standard components.
- Distance between conductors can vary in ±0.20in./±5 mm
- The dimensions given above are minumum values.

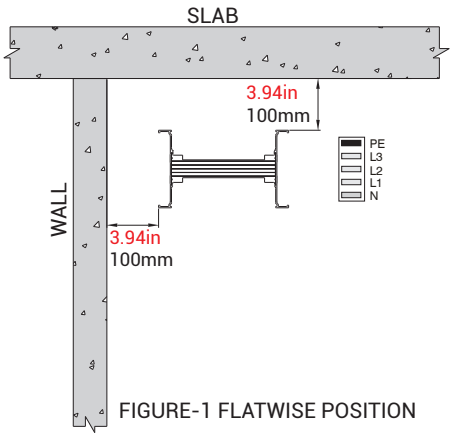


FIGURE-1 FLATWISE POSITION

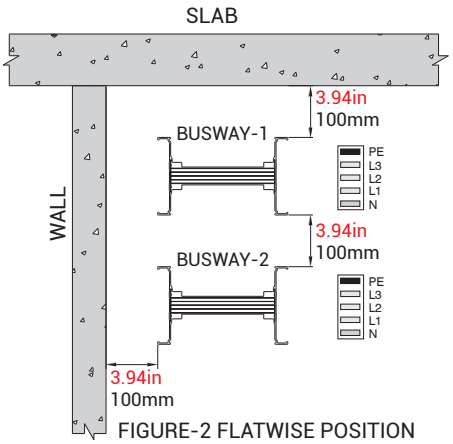


FIGURE-2 FLATWISE POSITION

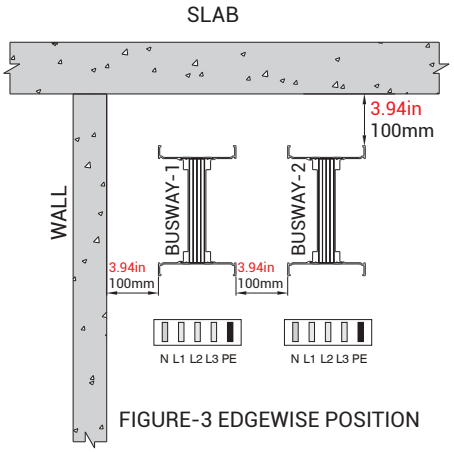


FIGURE-3 EDGEWISE POSITION

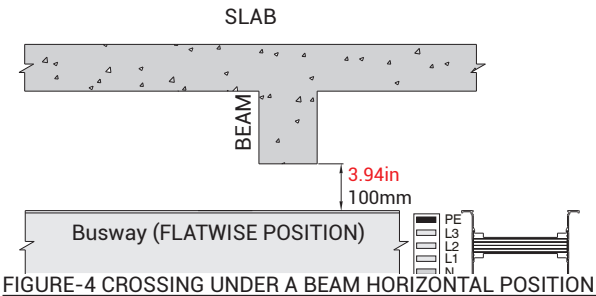


FIGURE-4 CROSSING UNDER A BEAM HORIZONTAL POSITION

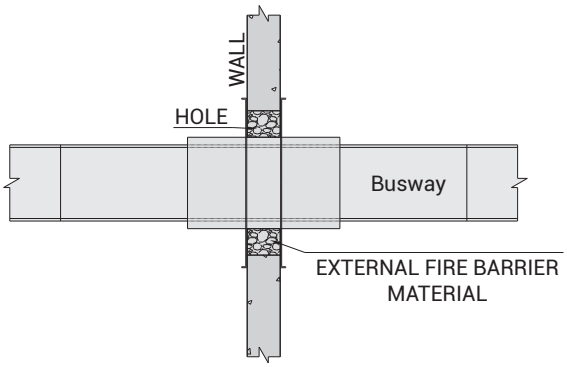


FIGURE-5 SAMPLE WALL CROSSING WITH FIRE BARRIER

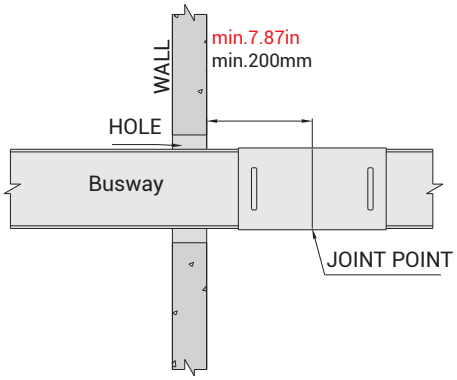
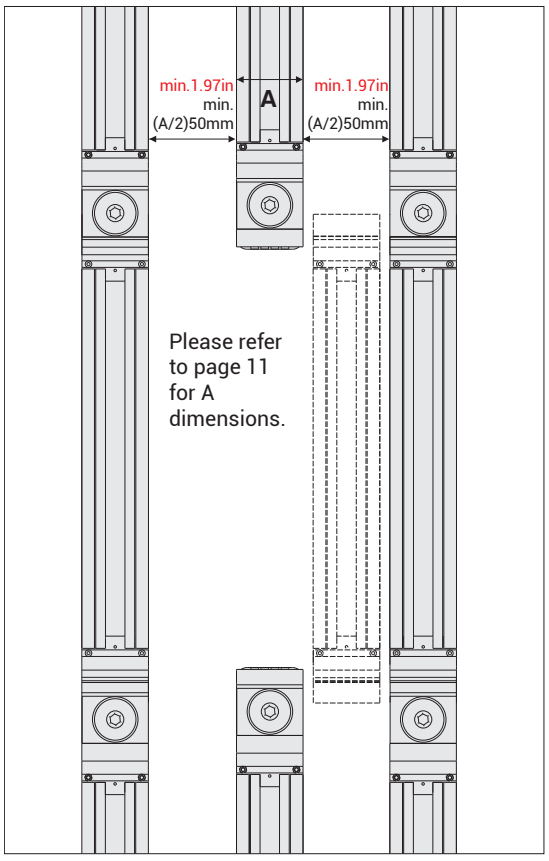


FIGURE-6 STANDARD WALL CROSSING



MINIMUM DISTANCE BETWEEN BUSWAY RUNS IN HORIZONTAL APPLICATIONS.

■The dimensions given above are minumum values. ■All measures are given in inch / mm

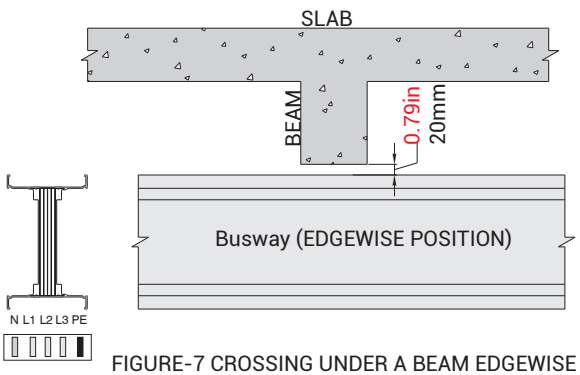


FIGURE-7 CROSSING UNDER A BEAM EDGEWISE POSITION

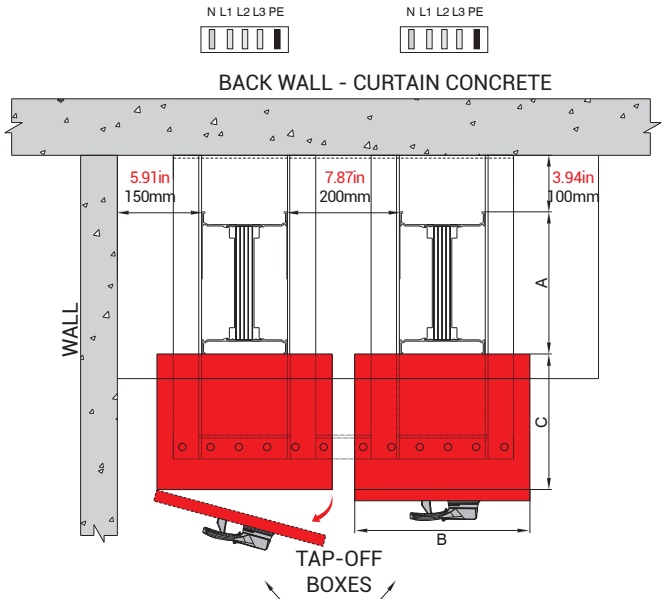


FIGURE-8 MINIMUM DIMENSIONS BETWEEN 2 TAP-OFF BOXES

NOTE: In order to accomodate the busway systems in the riser shaft;

MDM= Minimum Distance from the wall

"A" dimension = All dimensions are for standard modules.

"C" dimension = Please see page 31-32 and special dimension for Tap-off box "C" dimension.

"B" dimension = Max. opening distance for Tap-off box cover.

Shaft Dimension = MDM + A + C + B + 3.94in/ 100mm Shown as (Figure-8)

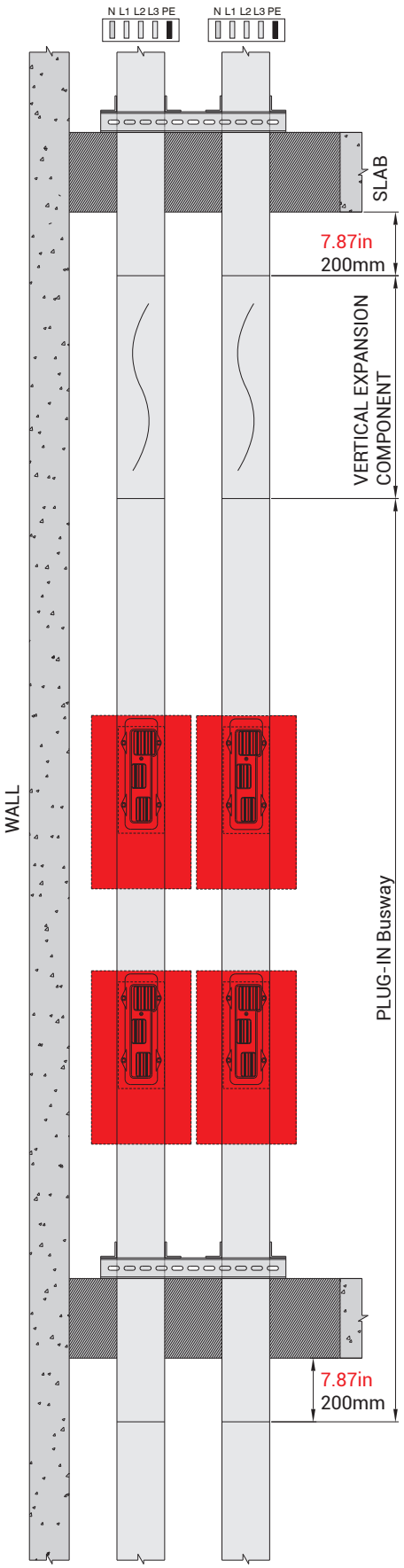
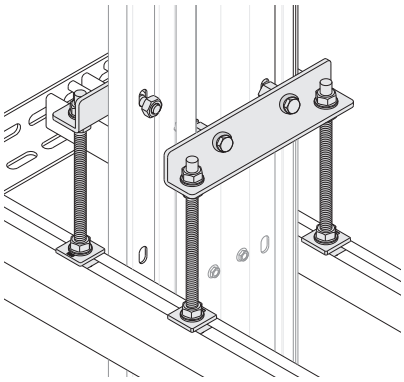


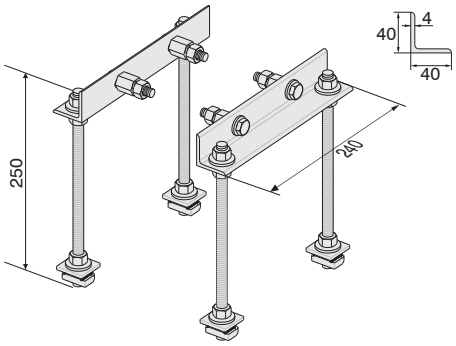
FIGURE-9 MINIMUM DIMENSIONS BETWEEN 2 RISERS

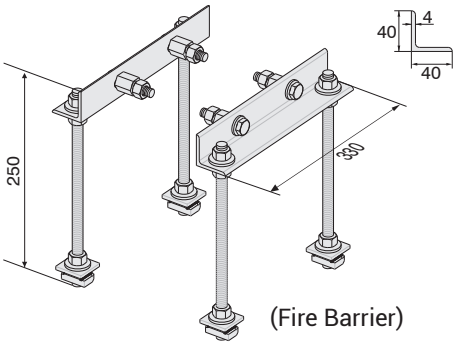
■The dimensions given above are minumum values. ■All measures are given in inch./mm

Supports

Description	Order Code
KX Vertical Riser Fixing Unit	**3048475**
KX Vertical Riser Fixing Unit (Fire Barrier)	**3048707**

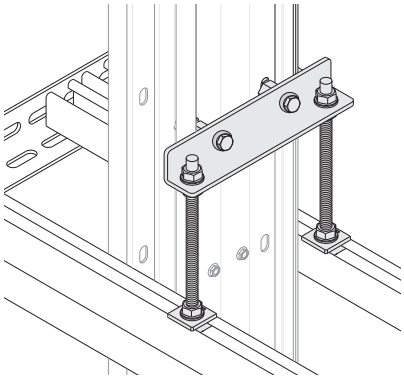


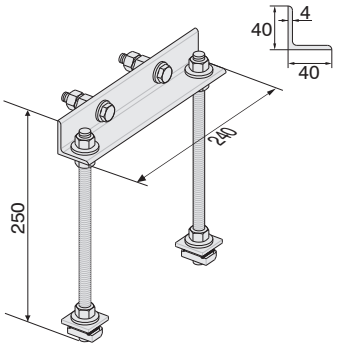


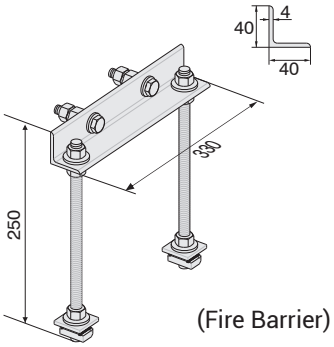


(Fire Barrier)

Description	Order Code
* KX Vertical Riser Fixing Unit	**3305415**
* KX Vertical Riser Fixing Unit (Fire Barrier)	**3305419**



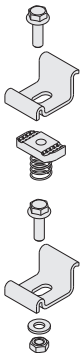




(Fire Barrier)

* KXA 04	* KXC 05	**6x25**
* KXA 05	* KXC 06	**6x30**
* KXA 06	* KXC 08	**6x40**

Fixing Elements

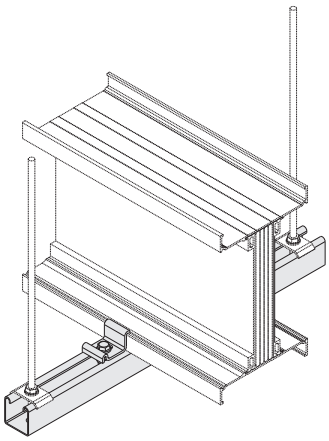


Description	Order Code
KX Fixing Clamp for Binrak (Unistrut) Channel	**2011227**

Description	Order Code
KX Fixing Clamp for Steel Angle Profile	**2011226**

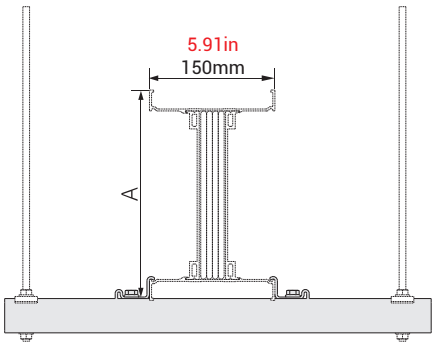
■The dimensions given above are minumum values. ■All measures are given in inch./mm

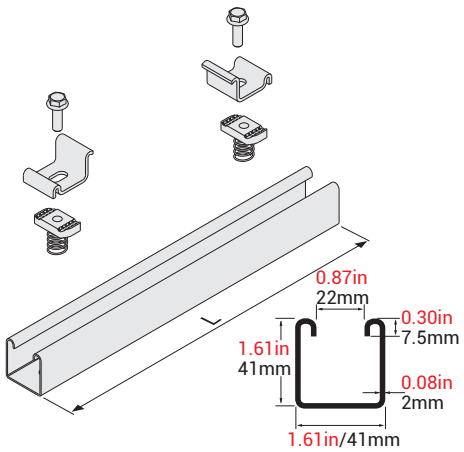
Supports



KX - BRA HANGER SET FOR EDGEWISE APPLICATION TO BINRAK (UNISTRUT) CHANNEL

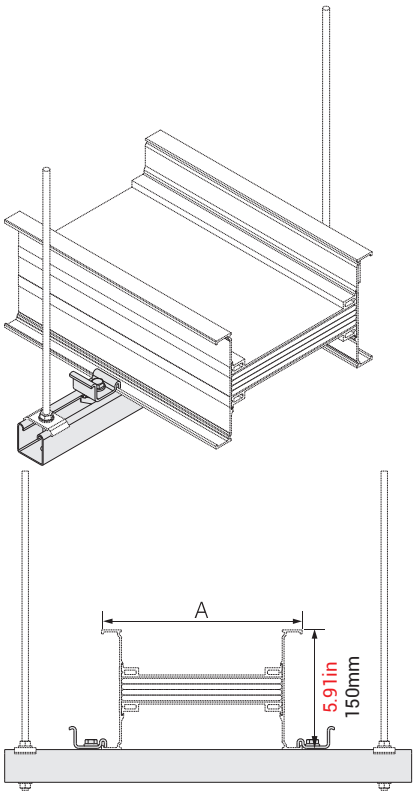
Al Conductor		Cu Conductor		L		A		Order Code
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)	(inch)	(mm)	
400	04	-	-	13.78	350	3.25	82.5	3025372
550	05	630	06			3.58	91	
-	-	800	08			3.78	96	
630	06	-	-			4.17	106	
-	-	1000	10			4.37	111	
800	08	1250	12			5.16	131	
1000	10	1350	14			5.75	146	
1300	13	1600	16			6.93	176	
1600	17	2000	20			8.70	221	
2000	20	-	-			11.06	281	

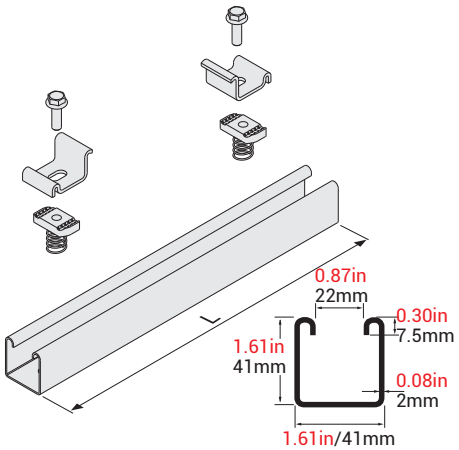




KX - BRA HANGER SET FOR FLATWISE APPLICATION TO BINRAK (UNISTRUT) CHANNEL

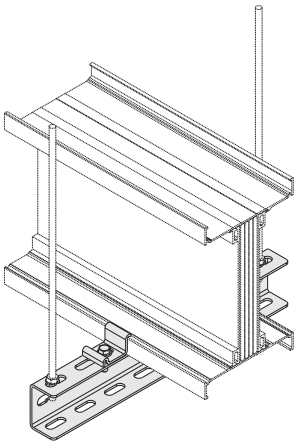
Al Conductor		Cu Conductor		L		A		Order Code
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)	(inch)	(mm)	
400	04	-	-	11.81	300	3.25	82.5	3025372
550	05	630	06			3.58	91	
-	-	800	08			3.78	96	
630	06	-	-			4.17	106	
-	-	1000	10			4.37	111	
800	08	1250	12			5.16	131	
1000	10	1350	14			5.75	146	
1300	13	1600	16	13.78	350	6.93	176	3025373
1600	17	2000	20	15.75	400	8.70	221	3025374
2000	20	-	-	17.72	450	11.06	281	3025375

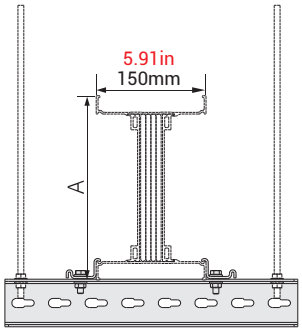




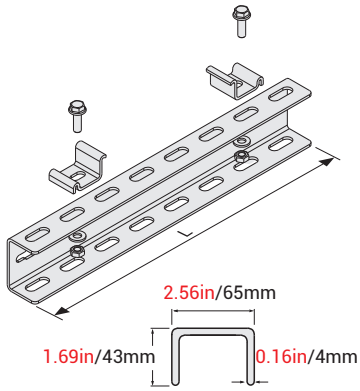
■The dimensions given above are minumum values. ■All measures are given in inch. /mm

Supports

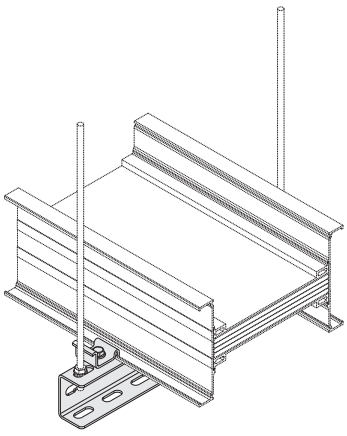


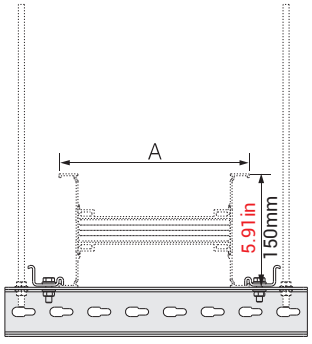


KX - UT HANGER SET FOR EDGEWISE APPLICATION TO NPU CHANNEL

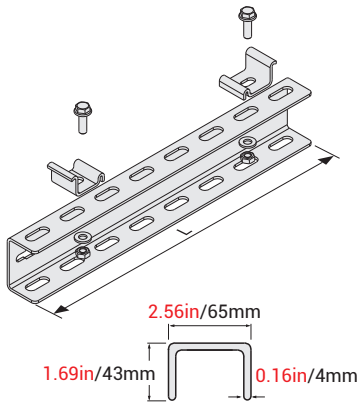


Al Conductor		Cu Conductor		L		A		Order Code
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)	(inch)	(mm)	
400	04	-	-			3.25	82.5	
550	05	630	06			3.58	91	
-	-	800	08			3.78	96	
630	06	-	-			4.17	106	
-	-	1000	10			4.37	111	
800	08	1250	12			5.16	131	
1000	10	1350	14			5.75	146	
1300	13	1600	16			6.93	176	
1600	17	2000	20			8.70	221	
2000	20	-	-	13.78	350	11.06	281	3025348
-	-	2000	22			9.92	252	
-	-	2500	26			11.10	282	
2500	25	3200	32			13.46	342	
-	-	4000	40			17.80	452	
3200	33	-	-			19.37	492	
4000	40	-	-			23.31	592	
-	-	5000	50			21.73	552	
-	-	6000	60			26.46	672	
5000	50	-	-			28.82	732	





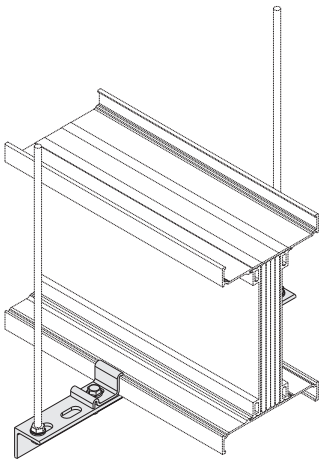
KX - UT HANGER SET FOR FLATWISE APPLICATION TO NPU CHANNEL



Al Conductor		Cu Conductor		L		A		Order Code
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)	(inch)	(mm)	
400	04	-	-			3.25	82.5	
550	05	630	06			3.58	91	
-	-	800	08	11.81	300	3.78	96	3025347
630	06	-	-			4.17	106	
-	-	1000	10			4.37	111	
800	08	1250	12			5.16	131	
1000	10	1350	14	13.78	350	5.75	146	3025348
1300	13	1600	16	15.75	400	6.93	176	3025349
1600	17	2000	20			8.70	221	
2000	20	-	-	17.72	450	11.06	281	3025350
-	-	2000	22			9.92	252	
-	-	2500	26			11.10	282	
2500	25	3200	32	21.65	550	13.46	342	3025352
-	-	4000	40			17.80	452	
3200	33	-	-	27.56	700	19.37	492	3025354
4000	40	-	-			23.31	592	
-	-	5000	50			21.73	552	
-	-	6000	60	35.43	900	26.46	672	3025355
5000	50	-	-			28.82	732	

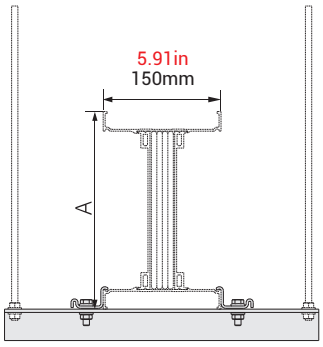
■The dimensions given above are minumum values. ■All measures are given in inch. /mm

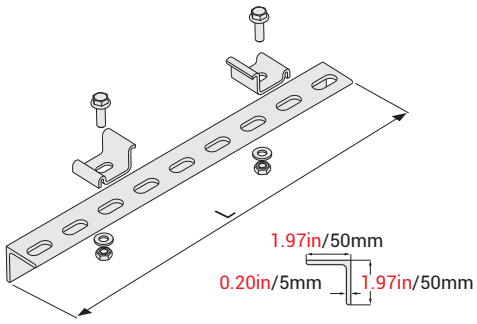
Supports

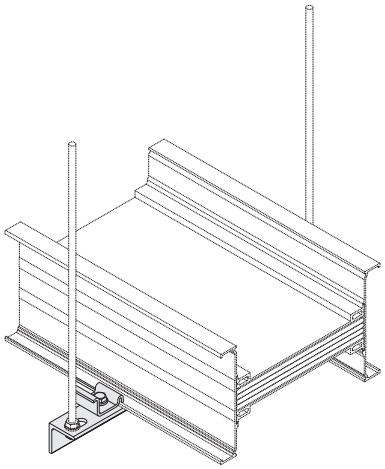


KX HANGER SET FOR EDGEWISE APPLICATION TO STEEL ANGLE PROFILE

Al Conductor		Cu Conductor		L		A		Order Code
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)	(inch)	(mm)	
400	04	-	-	13.78	350	3.25	82.5	3025344
550	05	630	06			3.58	91	
-	-	800	08			3.78	96	
630	06	-	-			4.17	106	
-	-	1000	10			4.37	111	
800	08	1250	12			5.16	131	
1000	10	1350	14			5.75	146	
1300	13	1600	16			6.93	176	
1600	17	2000	20			8.70	221	
2000	20	-	-			11.06	281	

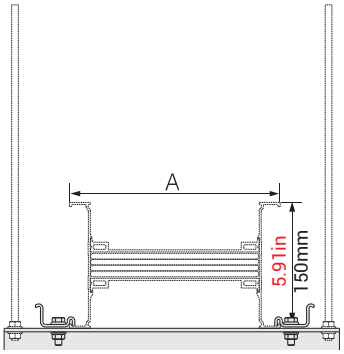


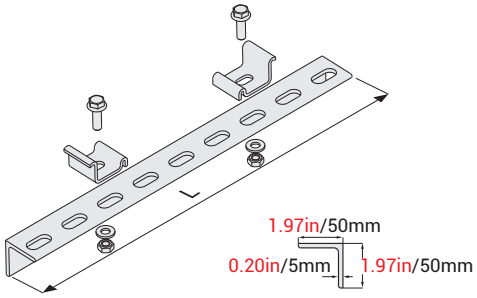




KX - BRA HANGER SET FOR FLATWISE APPLICATION TO BINRAK (UNISTRUT) CHANNEL

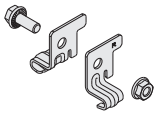
Al Conductor		Cu Conductor		L		A		Order Code
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)	(inch)	(mm)	
400	04	-	-	11.81	300	3.25	82.5	3025372
550	05	630	06			3.58	91	
-	-	800	08			3.78	96	
630	06	-	-			4.17	106	
-	-	1000	10			4.37	111	
800	08	1250	12			5.16	131	
1000	10	1350	14			5.75	146	
1300	13	1600	16	13.78	350	6.93	176	3025374
1600	17	2000	20	15.75	400	8.70	221	
2000	20	-	-	17.72	450	11.06	281	3025375





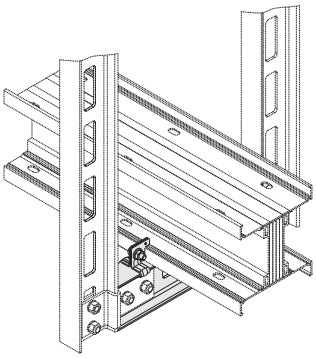
■The dimensions given above are minumum values. ■All measures are given in inch. /mm

Fixing Elements

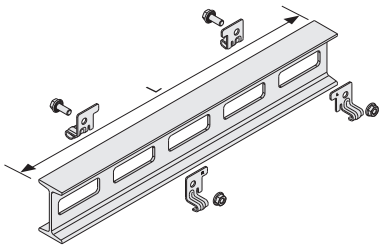


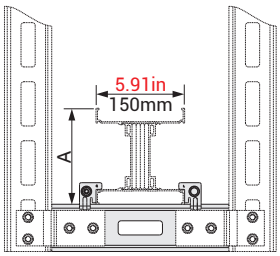
Description	Code
KX IDY Support Set	2054590

Supports

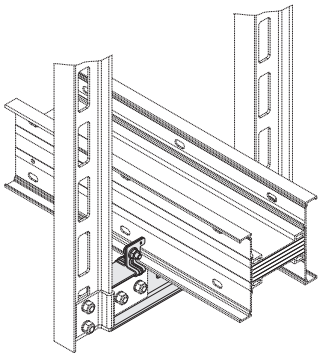


KX - IDY TWO-WAY FOR EDGEWISE APPLICATION TO NPI CHANNEL

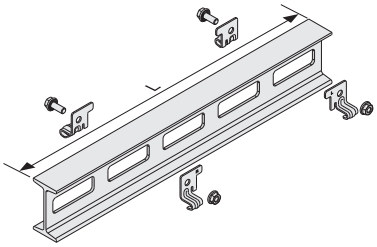


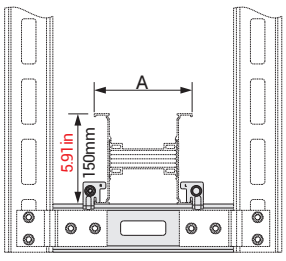


Al Conductor		Cu Conductor		L		A		Order Code
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)	(inch)	(mm)	
400	04	-	-	11.81	350	3.25	82.5	3113547
550	05	630	06			3.58	91	
-	-	800	08			3.78	96	
630	06	-	-			4.17	106	
-	-	1000	10			4.37	111	
800	08	1250	12			5.16	131	
1000	10	1350	14			5.75	146	
1300	13	1600	16			6.93	176	
1600	17	2000	20			8.70	221	
2000	20	-	-			11.06	281	
-	-	2000	22			9.92	252	
-	-	2500	26			11.10	282	
2500	25	3200	32			13.46	342	
-	-	4000	40			17.80	452	
3200	33	-	-			19.37	492	
4000	40	-	-			23.31	592	
-	-	5000	50			21.73	552	
-	-	6000	60			26.46	672	
5000	50	-	-			28.82	732	



KX - IDY TWO-WAY FOR FLATWISE APPLICATION TO NPI CHANNEL



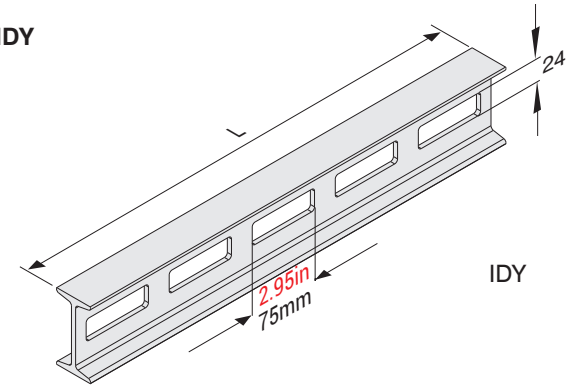


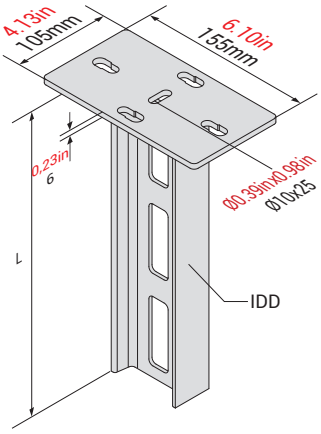
Al Conductor		Cu Conductor		L		A		Order Code
Rated Current	Busway Code	Rated Current	Busway Code	(inch)	(mm)	(inch)	(mm)	
400	04	-	-	11.81	300	3.25	82.5	3113547
550	05	630	06			3.58	91	
-	-	800	08			3.78	96	
630	06	-	-			4.17	106	
-	-	1000	10			4.37	111	
800	08	1250	12			5.16	131	
1000	10	1350	14			5.75	146	
1300	13	1600	16			6.93	176	
1600	17	2000	20	15.75	400	8.70	221	3113548
2000	20	-	-	19.69	500	11.06	281	3113549
-	-	2000	22			9.92	252	
-	-	2500	26			11.10	282	
2500	25	3200	32			13.46	342	
-	-	4000	40	27.56	700	17.80	452	3134127
3200	33	-	-			19.37	492	
4000	40	-	-			23.31	592	
-	-	5000	50			21.73	552	
-	-	6000	60	35.43	900	26.46	672	3113553
5000	50	-	-			28.82	732	

■The dimensions given above are minumum values. ■All measures are given in inch. /mm

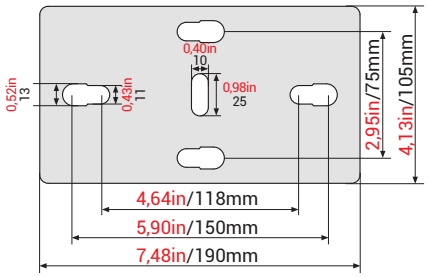
Supports

IDY



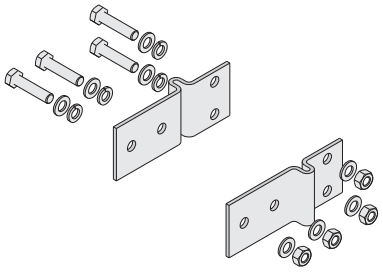


IDD

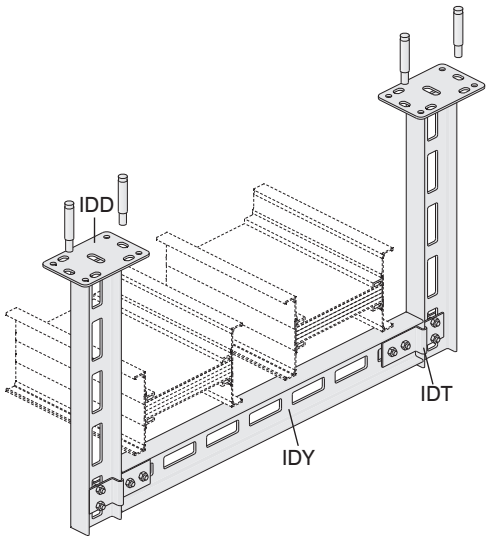


Description	L		Code
	(inch)	(mm)	
IDY 300	11.81	300	3008242
IDY 400	15.75	400	3008290
IDY 500	19.69	500	3008289
IDY 600	23.62	600	3008288
IDY 700	27.56	700	3008287
IDY 800	31.50	800	3008286
IDY 900	35.43	900	3008285
IDY 1000	39.37	1000	3008284
IDY 1100	43.31	1100	3008283
IDY 1200	47.24	1200	3008282
IDY 1300	51.18	1300	3008236
IDY 1400	55.12	1400	3008281
IDY 1500	59.06	1500	3008280
IDY 1600	62.99	1600	3008241
IDY 1700	66.93	1700	3008240
IDY 1800	70.87	1800	3008239
IDY 1900	74.80	1900	3008238
IDY 2000	78.74	2000	3008237
IDD 300	11.81	300	3008314
IDD 400	15.75	400	3008313
IDD 500	19.69	500	3008312
IDD 600	23.62	600	3008311
IDD 700	27.56	700	3008310
IDD 800	31.50	800	3008309
IDD 900	35.43	900	3008308
IDD 1000	39.37	1000	3008307
IDD 1100	43.31	1100	3008306
IDD 1200	47.24	1200	3008305
IDD 1300	51.18	1300	3008304
IDD 1400	55.12	1400	3008303
IDD 1500	59.06	1500	3008302
IDD 1600	62.99	1600	3008301
IDD 1700	66.93	1700	3008300
IDD 1800	70.87	1800	3008299
IDD 1900	74.80	1900	3008298
IDD 2000	78.74	2000	3008297
IDT Support Fitting	-		3008279

IDT



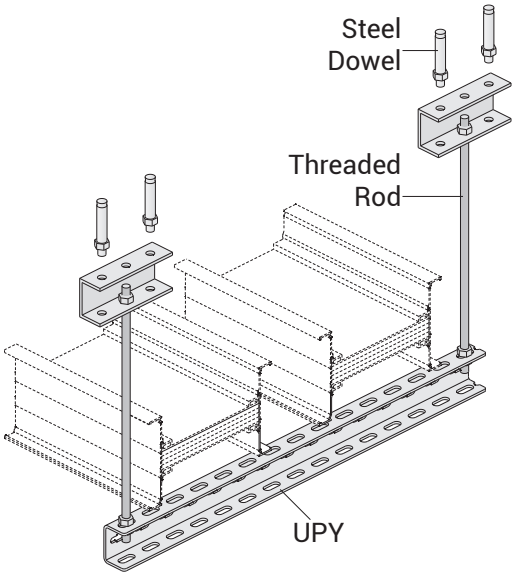
IDT

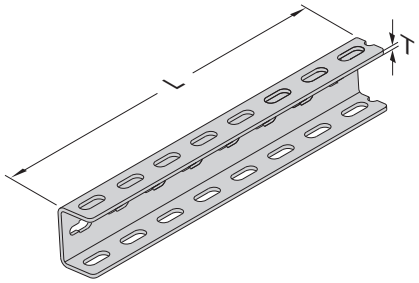


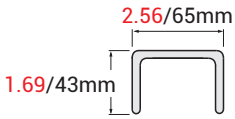
■Please call us for non-standard components.

Supports

UPY





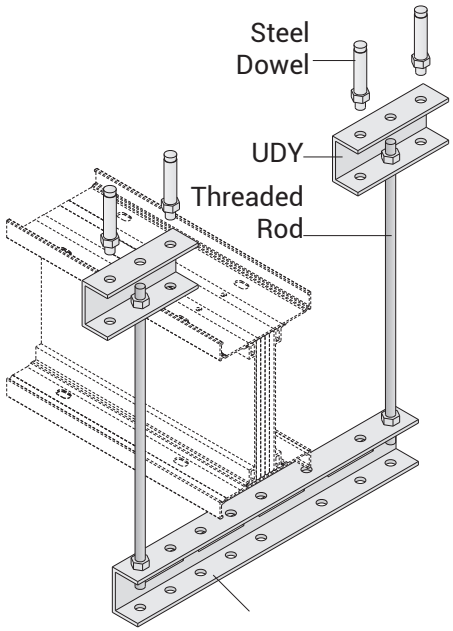


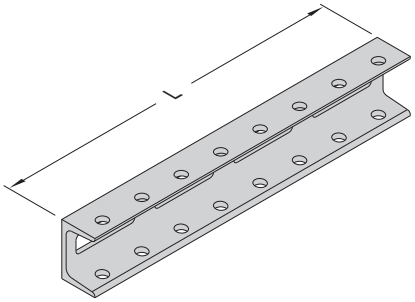
Description	T	L		Code
	(inch)/(mm)	(inch)	(mm)	
UPY 300	0.16 / 4	11.81	300	**3004487**
UPY 400	0.16 / 4	15.75	400	**3004489**
UPY 500	0.16 / 4	19.69	500	**3004491**
UPY 600	0.16 / 4	23.62	600	**3004493**
UPY 700	0.16 / 4	27.56	700	**3004495**
UPY 800	0.16 / 4	31.50	800	**3004496**
UPY 900	0.16 / 4	35.43	900	**3004497**
UPY 1000	0.16 / 4	39.37	1000	**3004498**
UPY 1100	0.16 / 4	43.31	1100	**3004499**
UPY 1200	0.16 / 4	47.24	1200	**3004500**
UPY 1500	0.16 / 4	59.06	1500	**3004503**

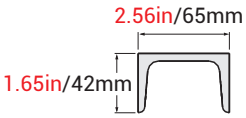
■Please call us for non-standard components.

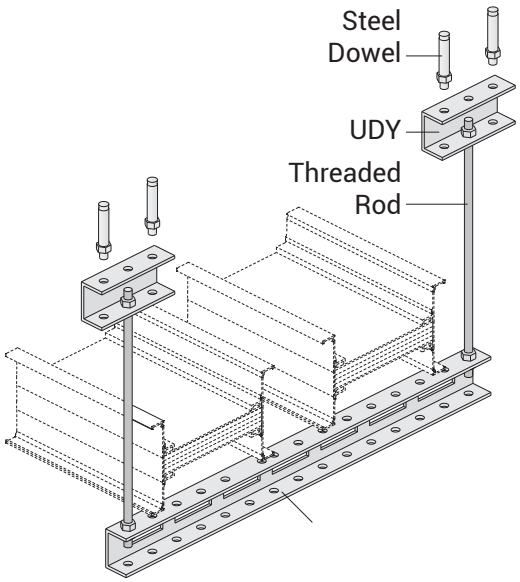
Supports

UDY



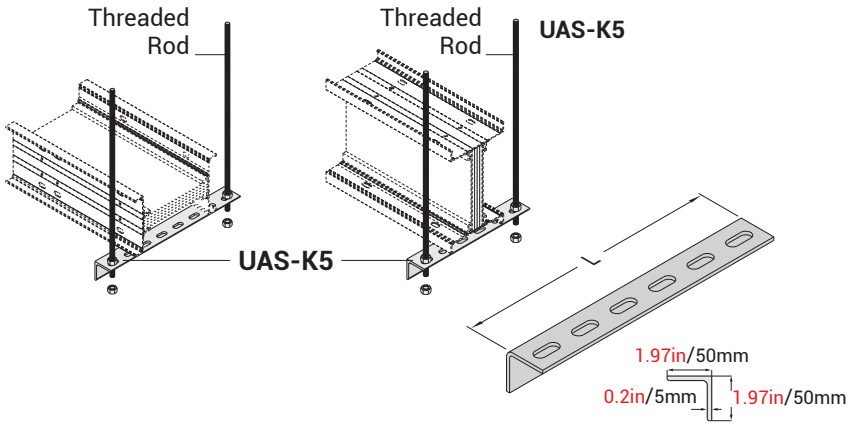






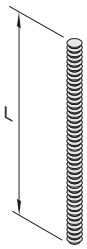
Description	L		Code
	(inch)	(mm)	
UDY 300	11.81	300	3008023
UDY 400	15.75	400	3008024
UDY 500	19.69	500	3008025
UDY 600	23.62	600	3008026
UDY 700	27.56	700	3008027
UDY 800	31.50	800	3008028
UDY 900	35.43	900	3008029
UDY 1000	39.37	1000	3008030
UDY 1100	43.31	1100	3008031
UDY 1200	47.24	1200	3008032
UDY 1300	51.18	1300	3008033
UDY 1400	55.12	1400	3008034
UDY 1500	59.06	1500	3008035
UDY 1600	62.99	1600	3008036
UDY 1700	66.93	1700	3008037
UDY 1800	70.87	1800	3008038
UDY 1900	74.80	1900	3008039
UDY 2000	78.74	2000	3008040

■Please call us for non-standard components.



Supports

Description	L		Code
	(inch)	(mm)	
UAS-K5 SUPPORT (1)	7.87	200	**3005324**
UAS-K5 SUPPORT (2)	9.84	250	**3005323**
UAS-K5 SUPPORT (3)	11.81	300	**3005322**
UAS-K5 SUPPORT (4)	13.78	350	**3005321**
UAS-K5 SUPPORT (5)	15.75	400	**3005320**
UAS-K5 SUPPORT (6)	19.69	500	**3005319**
UAS-K5 SUPPORT (7)	23.62	600	**3005318**
UAS-K5 SUPPORT (8)	27.56	700	**3005317**
UAS-K5 SUPPORT (9)	43.31	1100	**3005316**



Threaded Rod

Extension Unit

Steel Dowel

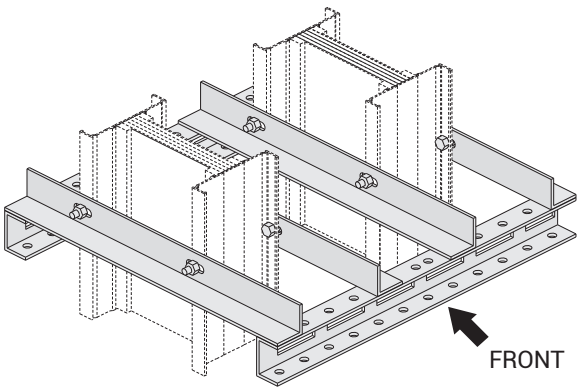
Diameter of the hole to be drilled
M10.....Ø0.55in
M12.....Ø0.63in

Steel Nut

Washer

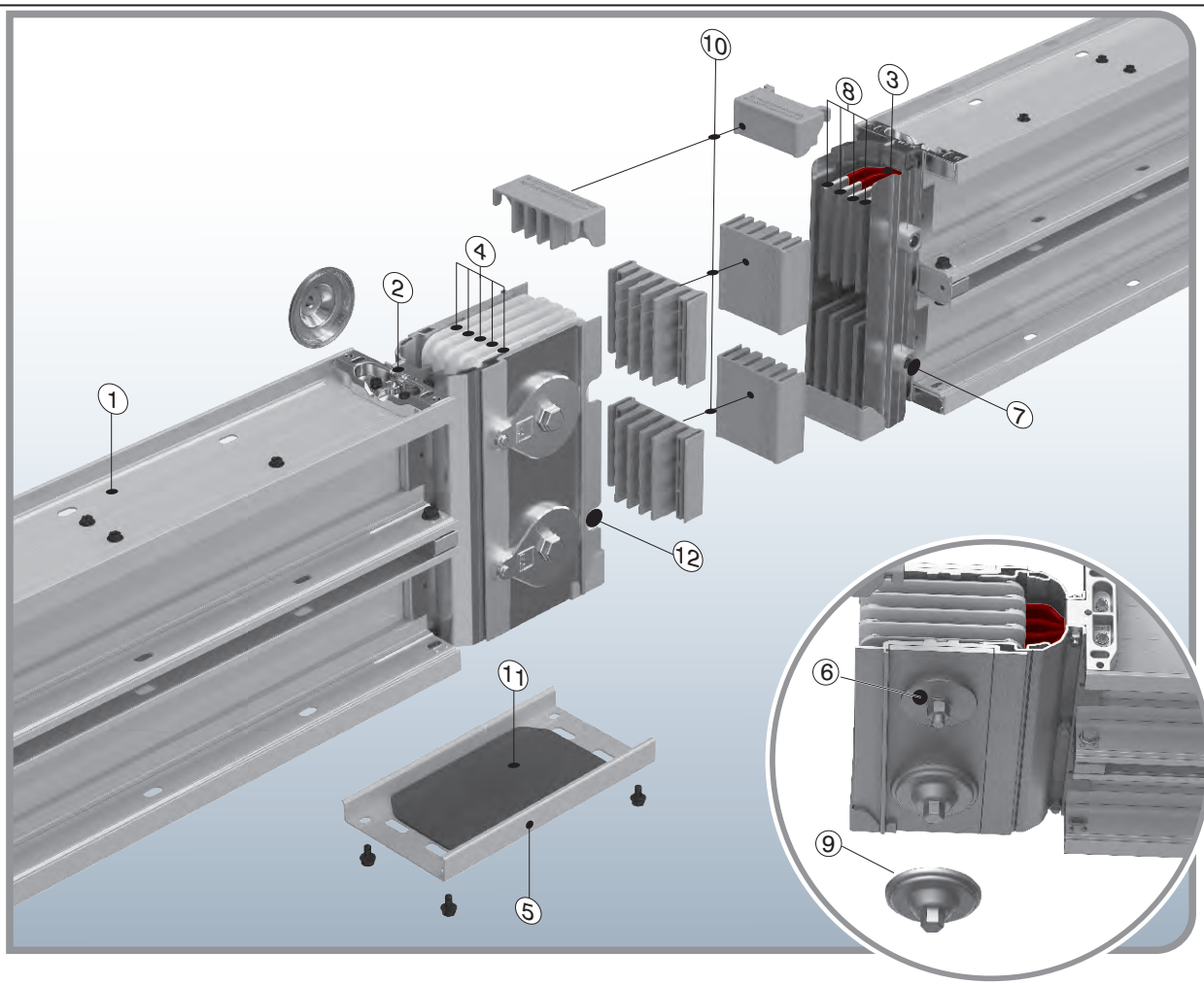
Connection Units

Description	L		Code
	(inch)	(mm)	
BRA 12-05 Threaded Rod (M10)	19.69	500	**5000037**
BRA 12-10 Threaded Rod (M10)	39.37	1000	**5000032**
BRA 14-05 Threaded Rod (M12)	19.69	500	**5000026**
BRA 14-10 Threaded Rod (M12)	39.37	1000	**5000034**
BRA 13 Extension Unit (M10)	-	-	**1004312**
BRA 13 Extension Unit (M12)	-	-	**1004282**
BRA 9 Steel Dowel (M10)	-	-	**5000023**
BRA 9 Steel Dowel (M12)	-	-	**5000022**
M10 Steel Nut	-	-	**1000522**
M12 Steel Nut	-	-	**1000964**
M10 Washer	-	-	**1000504**
M12 Washer	-	-	**1000505**



Vertical Riser Application
Sample Order Hanging
(Special to project)

■Please call us for non-standard components.



1. Extruded Aluminium Housing
2. PE Fixing Piece
3. Insulation Layers (Epoxy+B class polyester film)
4. Joint Insulators
5. Joint Cover
6. Belleville
7. Alignment Pin (removable)
8. Conductors
9. IP55 Nut Locking Piece
10. Protection Plastic
11. IP55 Joint Cover Gasket
12. Alignment Pin Slot

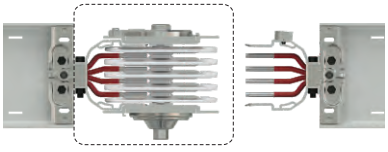


Figure 1 Block Joint

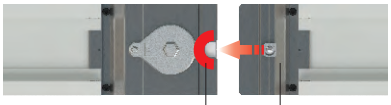


Figure 2 Alignment Slot Alignment Pin (removable)

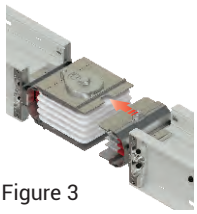


Figure 3

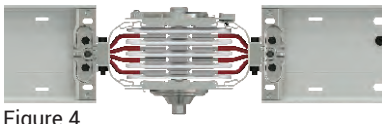


Figure 4 Joint assembly

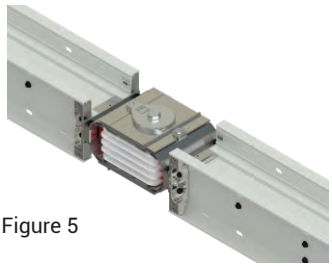


Figure 5

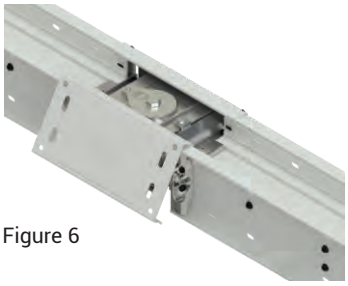
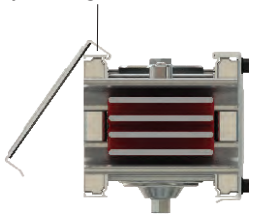


Figure 6

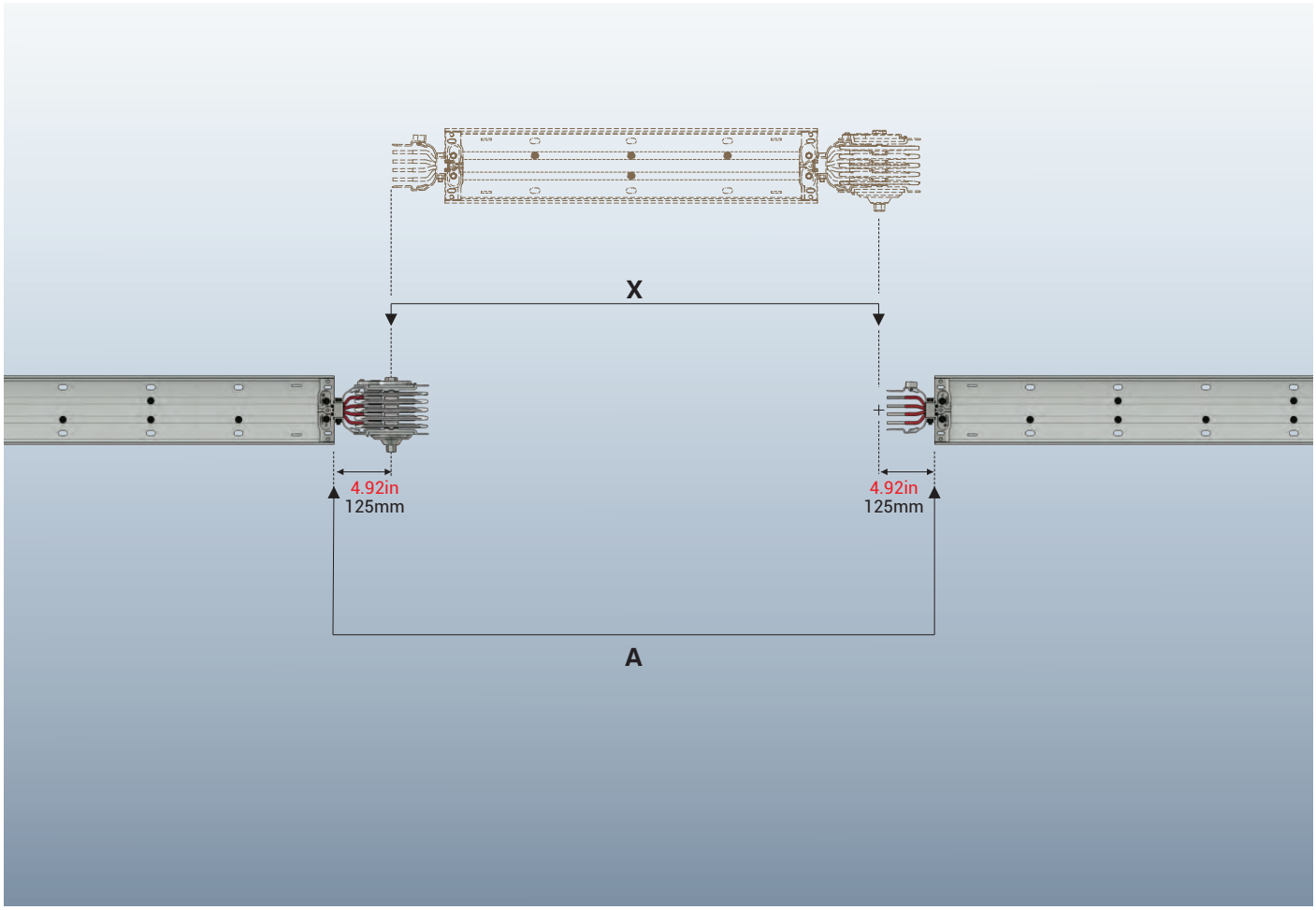
The joint cover is closed by leverage.



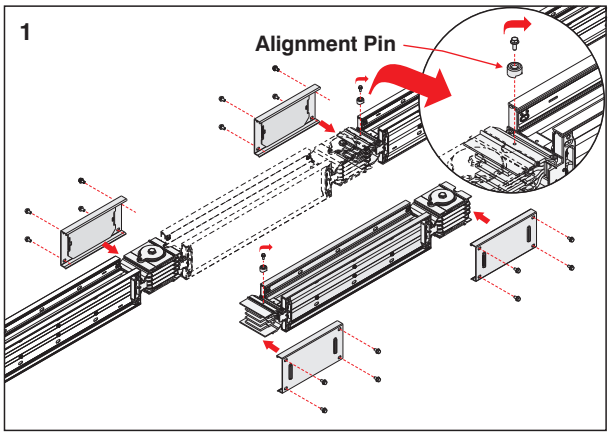
■Please call us for non-standard components.

After installation of standard busway 9.84ft/3m lengths, you will be in need of special lengths which are smaller than 9.84ft/3m. The minimum length for these special elements can be 13.78in/350mm. Please measure the lengths of these modules as shown below.

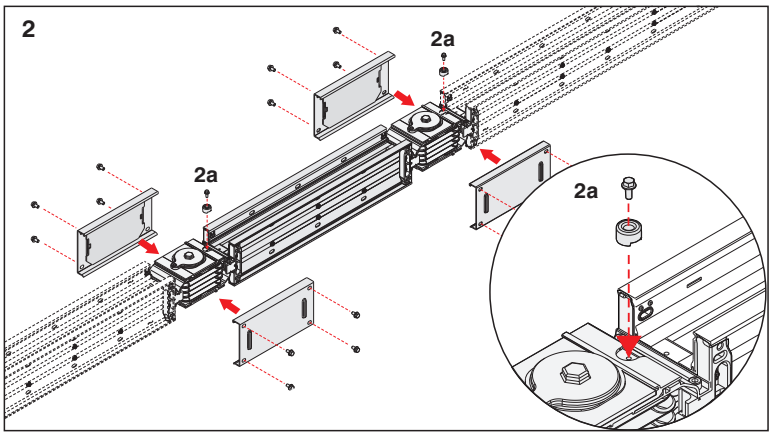
Length A is measured between housing of 2 busways in mm/inch. A, The special length is calculated by deducting 9.84in/250mm from this measured length.
X=A-9.84in (250mm) X=Length of Special Busway (The busway module will be manufactured as per X value.)



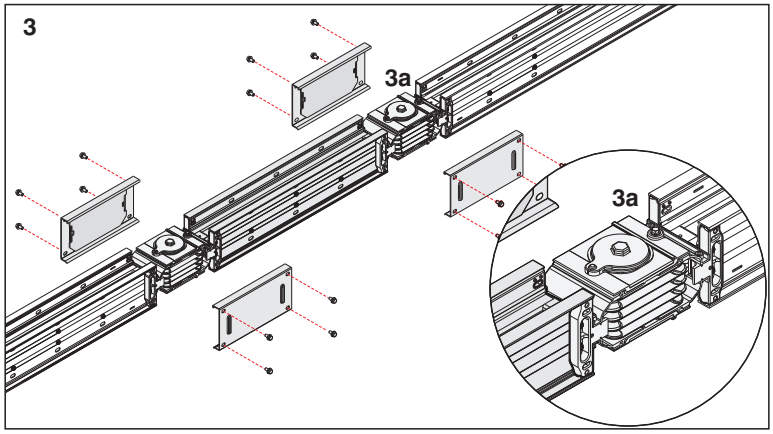
■Please call us for non-standard components.



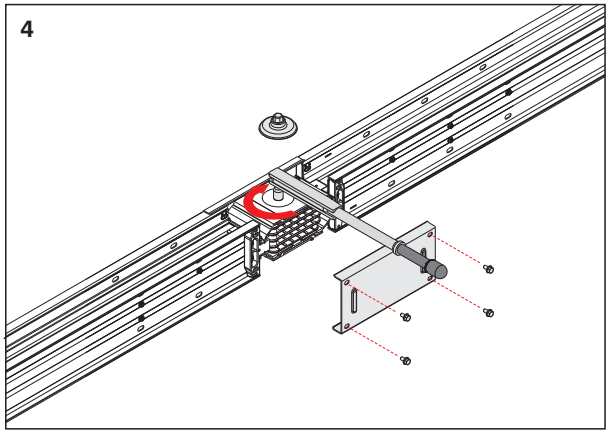
1- Remove Alignment Pin on the busway, without block joint.



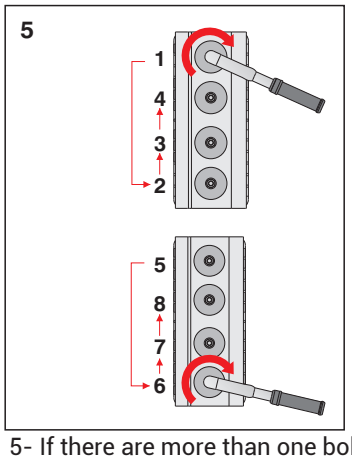
2- Insert the piece aligning conductors correctly, Fix back the Alignment pin.



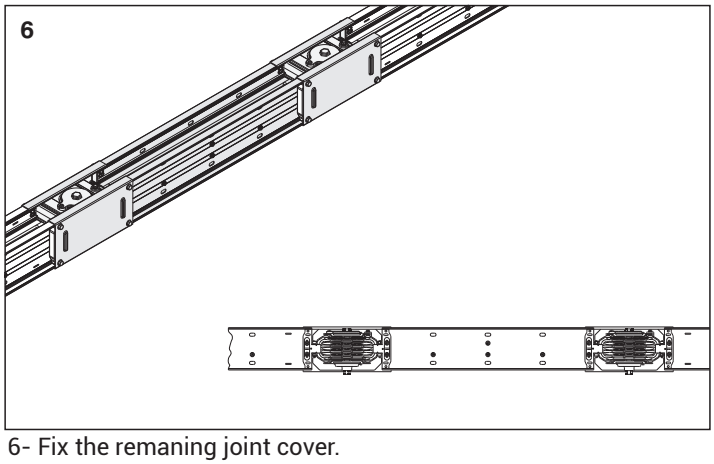
3- Make sure busway piece is aligned according to alignment pin.



4- Fix one of the joint cover to stabilize joint. Apply 61.2lb/60lbft to the main bolt.



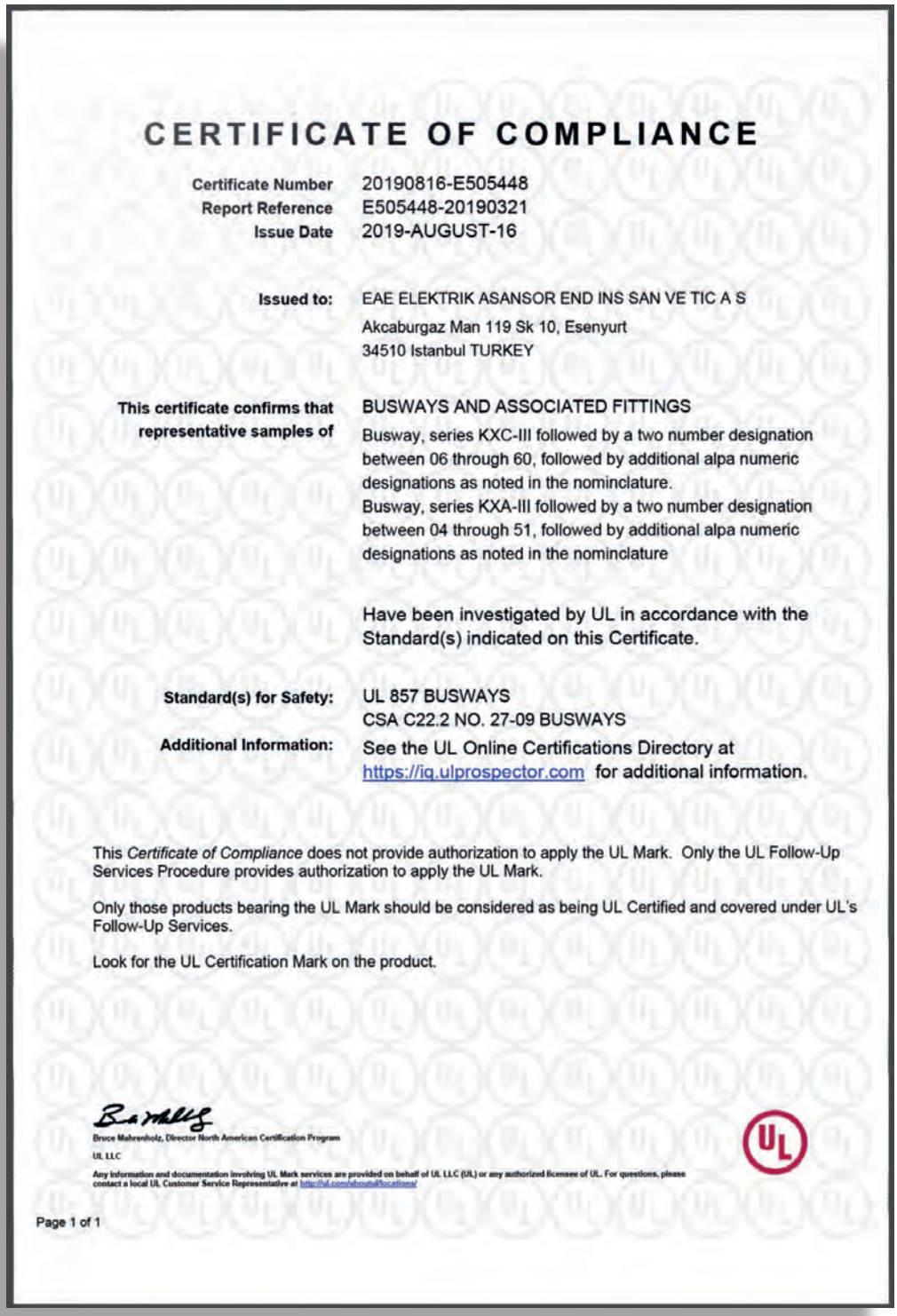
5- If there are more than one bolt for the same phase, bolts shall be tighten approximately at 14.7lb as per above sequence. Then 61.2lb shall be applied at final torque with the same sequence.



6- Fix the remaning joint cover.

Note: If the final joint cover does not close correctly, it indicates the busway is not completely aligned. Release the bolts and reapply the sequence from figure 4 to complete the joint.

■ Please check related installation manual for details.



CERTIFICATE OF COMPLIANCE

Certificate Number	20190816-E505448
Report Reference	E505448-20190321
Issue Date	2019-AUGUST-16
Issued to:	EAE ELEKTRIK ASANSOR END INS SAN VE TIC A S Akcaburgaz Man 119 Sk 10, Esenyurt 34510 Istanbul TURKEY
This certificate confirms that representative samples of	BUSWAYS AND ASSOCIATED FITTINGS Busway, series KXC-III followed by a two number designation between 06 through 60, followed by additional alpa numeric designations as noted in the nominclature. Busway, series KXA-III followed by a two number designation between 04 through 51, followed by additional alpa numeric designations as noted in the nominclature
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 857 BUSWAYS CSA C22.2 NO. 27-09 BUSWAYS
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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Page 1 of 1

KX III–UL 400A – 6000A COMPACT BUSWAY PRODUCT FEATURES

KX III–UL busway system allows users to distribute electrical energy safely with 46 years of experience in design and manufacturing of busway systems. **KX III–UL**, features flexible power supply, short installation time, superior heat dissipation and electrical characteristics. Where shown on plans, furnish and install a totally enclosed, low-impedance busway system of the indicated ratings with all necessary fittings, power takeoffs, hanging devices and accessories.

1- Standards & Certification

- **KX III–UL** Busway system has been designed and manufactured as per UL 857 standard, which requires below listed tests. Each busway rating has been type tested individually and comply with recent UL 857 standards for all type tests and certified by independent authorized testing laboratory as UL including below test:
- Compliant for: CUL Listing
- Compliant for: National Electric Code (NEC)Article 364 – Busways 19
- Compliant: NEMA AB1, Molded Case Circuit Breakers and Molded Case Switches
- Compliant: NFPA 70 – National Fire Protection Agency
- EAE has ISO 9001, ISO 14001, OSHAH 18001, ISO 27001 and ISO 17025 certifications.
- All the required type tests for each rating according to IEC 61439-6 and certified with 3rd Party.
- Compliant: IEC 60364-1 Low-voltage electrical installations
- KX III–UL Busway has high flame resistance and circuit integrity properties under fire conditions according to IEC 60331, BS 6387, BS 8491 standards including joints and tap-off boxes.

2- Electrical Characteristics

- KX III–UL Busway systems nominal voltage is 600 V.
- Operating Frequency: 50/60 Hz
- 6 Cycle RMS Symmetrical Short Circuit Rating shall be:

For Aluminium Conductors;
400-630A : 50kA
800-1300A : 65kA
1600-2000A : 100kA
2500A : 125kA
3200A : 200kA
4000A : 150kA
5000A : 200kA

For Copper Conductors;
630-1000A : 65kA
1250-2000A: 125kA
2000-6000A: 200kA

- Position: 100% rating for any horizontal or vertical orientation.
- The maximum hot-spot temperature rise at any point in the busway at continuous rated load shall not exceed 131°F

3- Components

3.1- Housing

- **KX III–UL** Busway system has "Sandwich-Compact" structure. Conductors are packed and placed into the housing without leaving air gap in order to provide low reactance.
- The housing shall be RAL7035-Electrostatic painted extruded aluminum to provide maximum protection against corrosion from water and other contaminants normally encountered during construction.
- The busway housing shall be of 100% aluminum construction to reduce hysteresis and eddy current losses.
- Busway housing shall have optional powder coating finish if required per project design,
- "Compact structure of the housing has been provided by M6 screws applied at every 7.48 in along the entire length.
- The sandwich-compact structure continues at the plug-in points too. There isn't any air gap between conductors at the plug-in points.
- The housing material and paint are selected with non-propagating properties.

3.2- Conductors

- Conductors: Individual isolated and insulated. Aluminum or Copper conductors are epoxy coated. All phase and neutral conductors joints and contact surfaces are plated tin (optinal Silver).
- Straight sections of feeder busway can be supplied in any length, from a 12.00-inch (350 mm) minimum to a 10-feet (3048 mm) maximum
- Bus bars shall be suitably plated at all joints and contact surfaces.
- KX III–UL busway system has aluminum conductors between 400A – 5000A,
- KX III–UL busway system has copper conductors between 630A – 6000A,
- KX III–UL busway system has the following number of conductors and wire configuration;
  A, 4½ Conductors: (4 full size conductors + PE (50% earth conductor + housing)).
  b. 5 Conductors: (4 full size conductors + PE (100% earth conductor + housing)).
  c. 6 Conductors: (5 full size conductors (+ PE (100% earth conductor + housing)).
- Phase conductors and neutral conductor have the same cross-section and they are insulated.
- Aluminum conductors are EC grade aluminum.
- The conductors may be ordered in copper (98% conductivity), Aluminium (58% conductivity).

3.3- Insulation

- Insulation system is suitable for 600 V continuous operation.
- Specially formulated Class B epoxy insulation has been applied as insulation material which provides high insulation resistance and high peak temperature resistance.
-The insulation process apply is the spray insulation process which produces uniform application of the epoxy powder over the entire conductor bar. It is further enhanced by inline filter process and magnetic separator that help to eliminates contaminants common to fluidized bed systems.
- Epoxy is UL V0 class and halogen and toxic free properties.
- All insulators must be UL recognized.

3.4- Joint Structure

- KX III - UL Busway, ensures contact pressure at the joint by special EAE belleville spring washers.
- All parts of the joint structure are plated with tin against contact losses due to corrosion in order to get safe and reliable earth connections and have very low resistance values entire length.
- It shall be possible to make up a joint from one side in the event the busway is installed against a wall or ceiling. The joint shall be so designed as to allow removal of any length without disturbing
adjacent lengths.

3.5- Accessories and Components

- All system components including Tees, flanges, Reducers, Expansion joints and Elbows etc. shall be of the same material from the same manufacturer.
- End pieces and end caps will be provided to install at the ends of each line.
- KX III–UL Busway system has all necessary accessories (elbows, offsets, panel-transformer connections, reductions, etc.) EAE supply special dimensioned units in short time, if the project conditions require.
- For horizontal runs, a horizontal expansion unit will be used at every 40m and at the building expansions.
- For vertical applications, a vertical expansion unit will be used at every floor. Busway system must be rigidly fixed by supports at every floor.
- Horizontal runs of busway shall be UL Listed for hanging on 10-foot (3.05 meters) centers in any position. Vertical riser runs of busway shall be supported with rigid and/or spring hangers in positions indicated on plans (max 16'/4.88 meters) centers.

Component List

Item	Component	Quantity

Company :
Project :
Project No :

Prepared by
Name :
Date :
Signature :

Please duplicate this page for your own use.

Component List		
Item	Component	Quantity

Company :
Project :
Project No :

Prepared by
Name :
Date :
Signature :

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PRODUCT TYPES

BUSWAY ENERGY DISTRIBUTION SYSTEMS

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TROLLEY BUSWAY ENERGY DISTRIBUTION SYSTEMS

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SUPPORT SYSTEMS

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IEC 61439-6

Catalogue 59 / Rev 08 0 pcs. 03/10/2023
D.S.