

Leading Solution & Customer Value

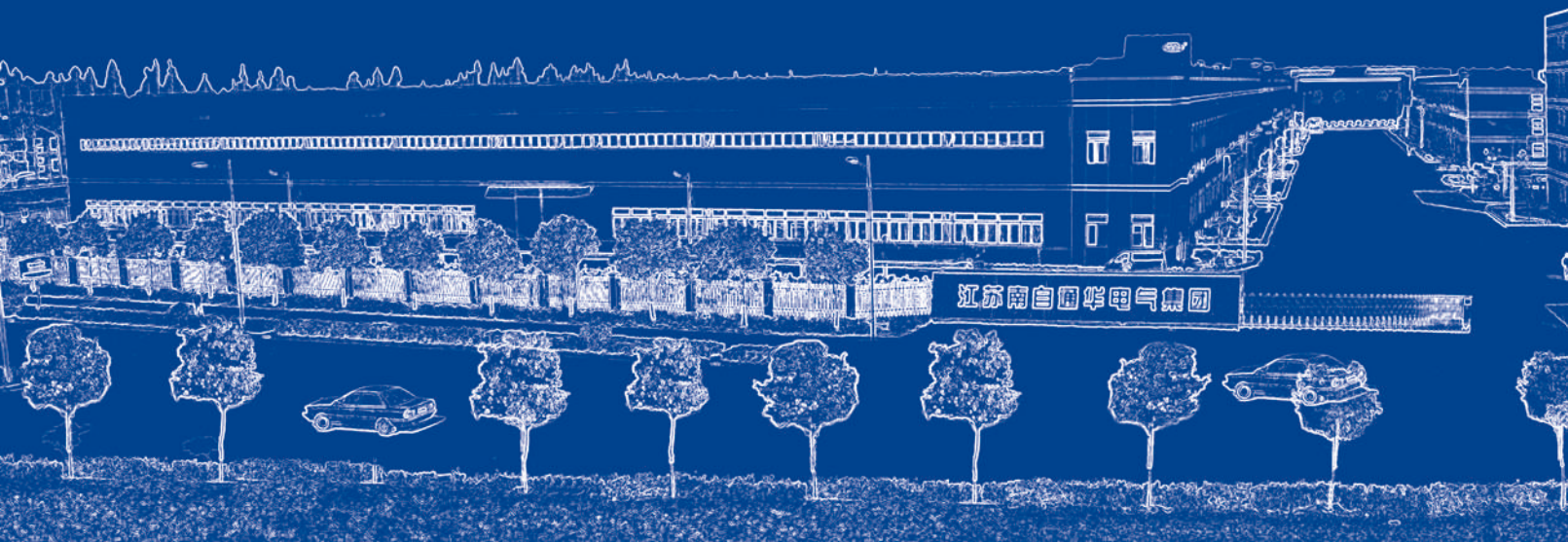
WETOWN

LV™ Series Busway



WETOWN BUSWAY

WETOWN BUSWAY CO., LTD. is a leading busway company in China. It boasts the most complete lines of busway product & solution in the industry and modern manufacturing facility with state-of-art manufacturing equipment and process. The company complies with quality management system ISO 9001, Environment Management System ISO14001 and Occupational Health & Safety Management System OHSAS18001. The products made by WETOWN have obtained over 30 national and international patents and passed the type tests of international authority including CCC, KEMA, UL, and CE etc. All these strength together with our strong market position and financial status have allowed us to become the No. 1 national brand of busway. With long history and rich experience in product design, manufacturing expertise as well as proven quality of thousands of installations through out China and the rest of world, Wetown is striving to become a global leading manufacturer in busway system by helping customer to solve problems with innovative and efficient solutions.



Mission

**WETOWN BUSWAY,
ENGINE of BUSWAY TOWN**

Making Electrical Transmission & Distribution

More Reliable, More Efficient and More Economical



High efficiency



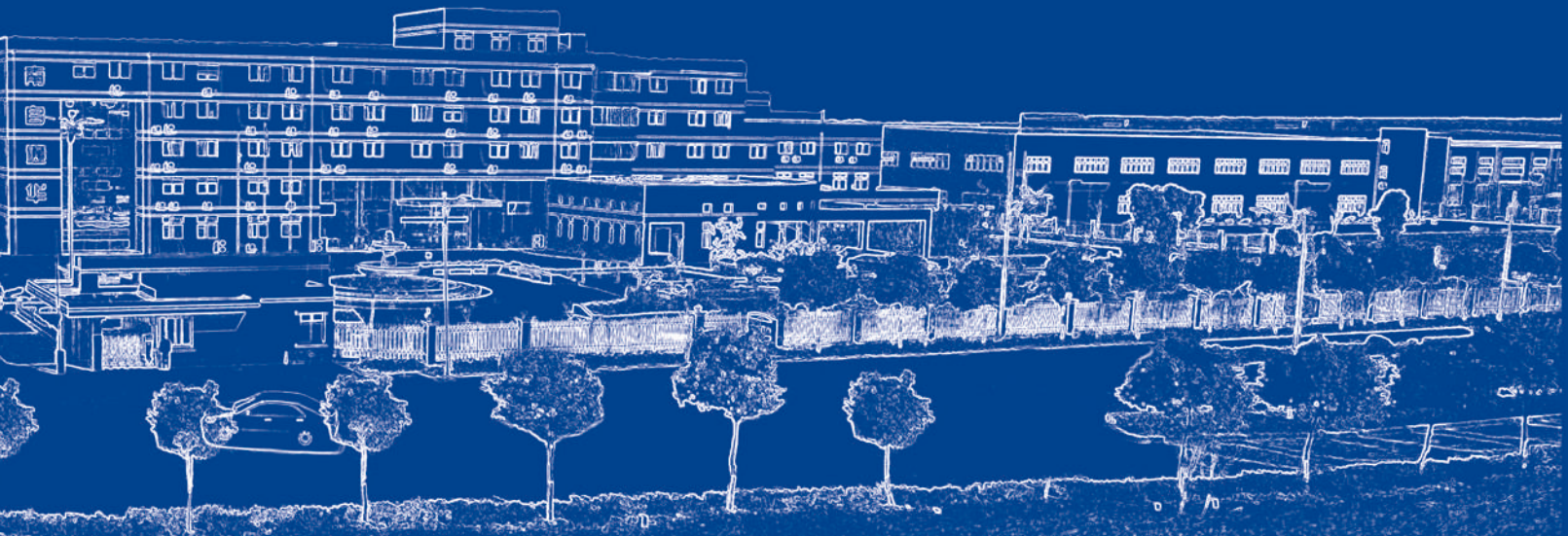
Saving space



Low Loss



High protection



Culture and value

WETOWN BUSWAY

Currently No.1 China National Brand in Busway

Striving to be a leading global expert with full solution

Our culture and value

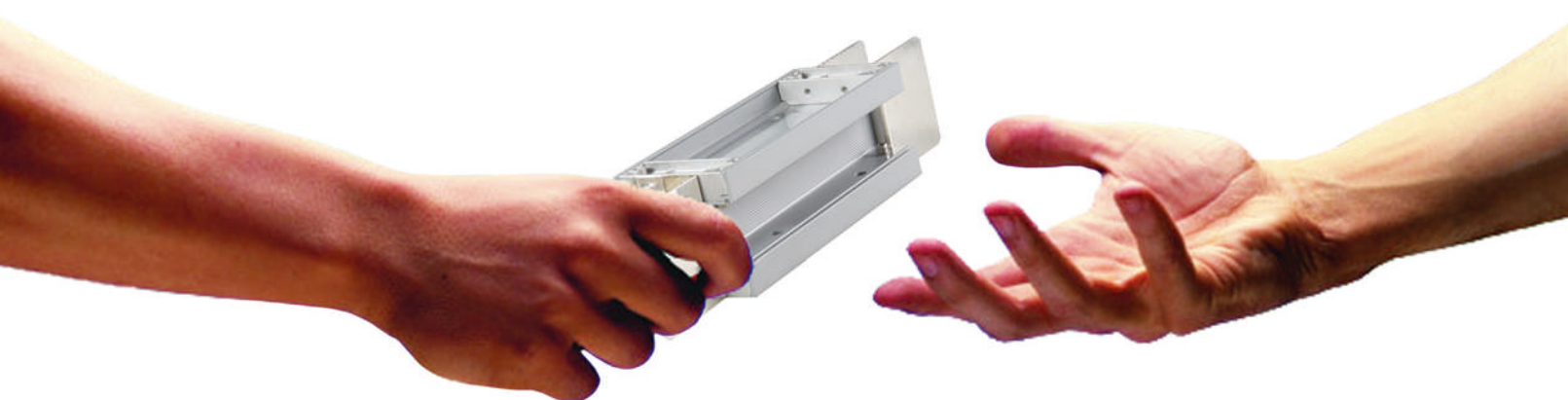
Integrity & Commitment

Commitment to society, customer and our people

Customer Orientation

It is the first priority among everything we do.

Seeking to be your first choice partner by excellence.





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System overview



Wetown LV™ series busway system is a reliable and efficient electrical distribution system with sandwich construction and superior performance. It is a safe and robust power distribution system with high electrical efficiency, low voltage drop, high mechanical strength.



The system offers a full line of busway to meet the world market: suitable for three-phase three-wire, three-phase four-wire, three-phase five-wire power supply and distribution, with rated current from 250 to 6300A, rated operation voltage up to 690V(rated insulation voltage up to 1000V), IP degree up to IP66 and the frequency 50~60Hz.



Constructed with two-pieces of aluminum housing, Wetown LV™ breaks the barrier of weight as one of the lightest system in the business and offers you maximum flexibility. The full aluminum alloy housing, a low magnetic material, avoid hysteresis loss on the distribution system.

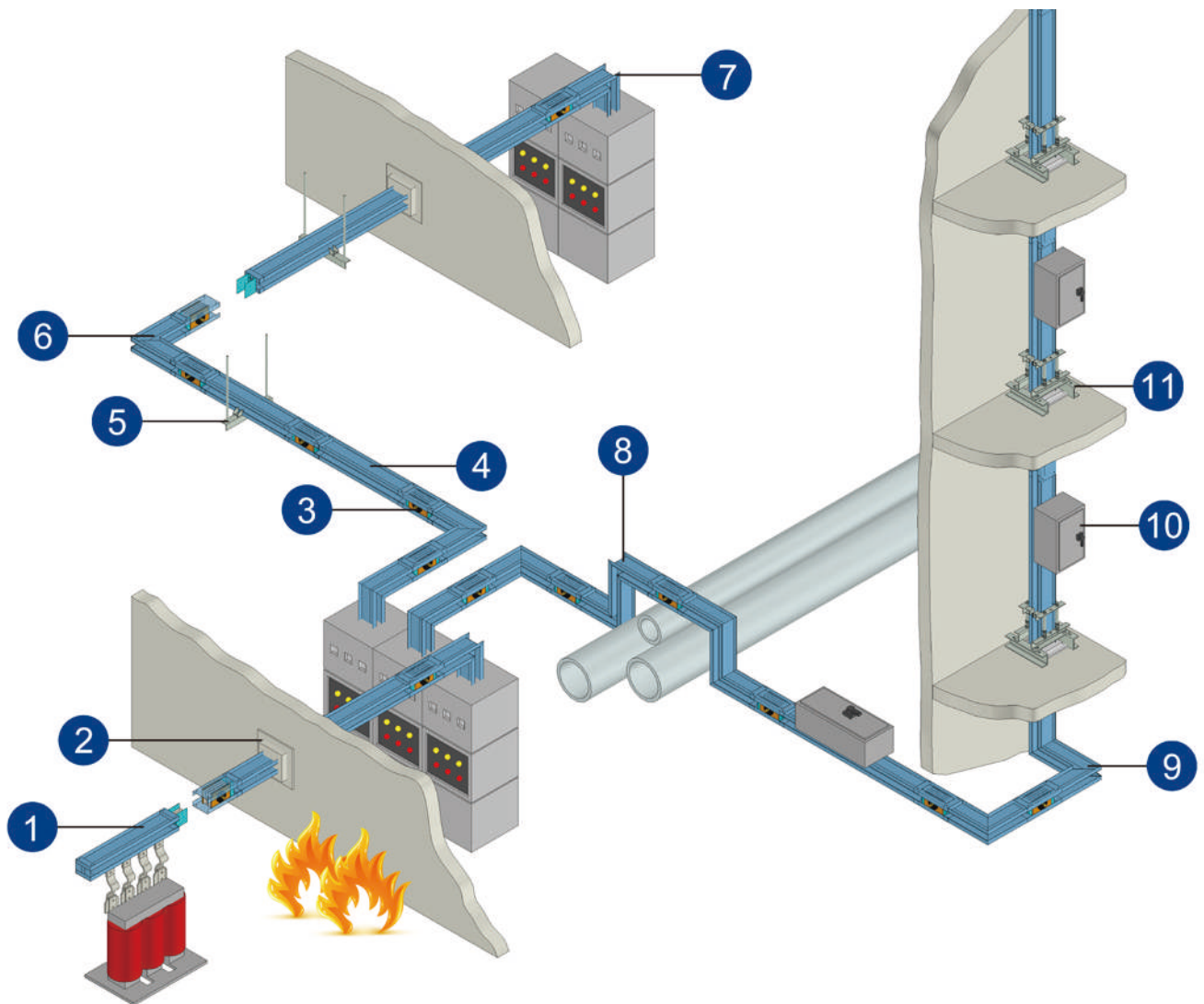
Wetown LV™ series busway provides longer life than mylar by epoxy insulation(H class) as an option with “3M” power as coating insulation..



Wetown LV™ series busway system is an ideal choice for various applications including commercial, industrial electrical distribution and other verticals.

From every aspect—performance, flexibility, quality and customer value, Wetown LV™ is a superior choice for your next installation.

System overview



1. Transformer Connection Unit
2. Wall Flange
3. Joint
4. Straight Length
5. Hanger
6. Flatwise Elbow

7. Edgewise Elbow
8. Edgewise Offset
9. Nonstandard Elbow
10. Plug-in Box
11. Spring Hanger

Product Features

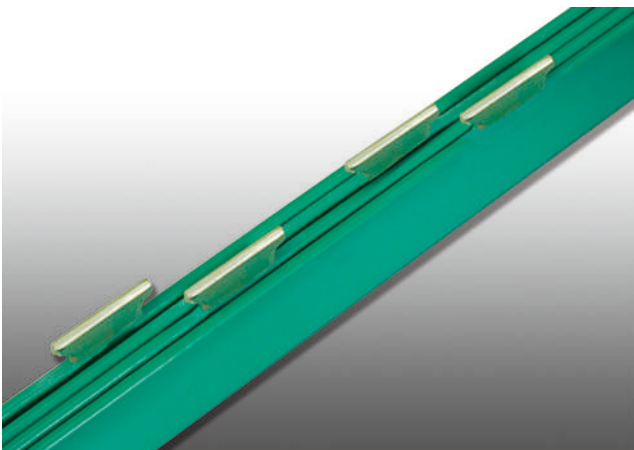
—Superior design and performance.

Unique structure design



The unique “serrated surface” design of housing greatly improves the heat dissipation for the whole busway system. By the design of two-piece housing, Wetown LV™ series busway provides more reliable IP protection for the field application than the traditional design.

Novel conductor structure

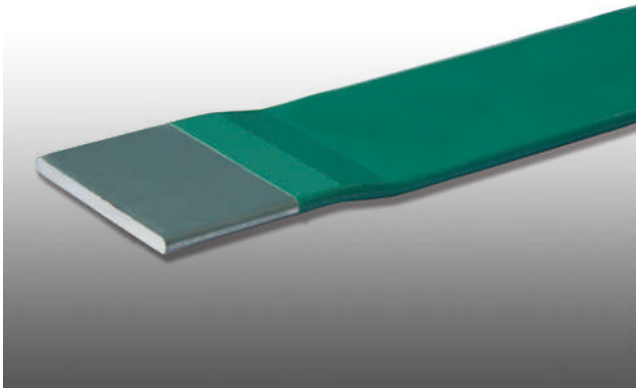


True sandwich structure for the design and construction. Bus bars for plug in length are welded in place by state of art welding process. Bus tabs, arranged compactly without bending, achieve the performance of superior heat dissipation, lower temperature rise and elimination of “chimney effect”.

Product Features

—Superior design and performance.

Superior & reliable insulation



Class B(130°C) PET and Class H(180°C) epoxy insulation are available.

Epoxy insulation on bus bar is applied by an automated process with “3M” coating powder.

Epoxy insulation offers an exceptional electrical performance with dielectric strength up to 45V/μm and superior mechanical strength as well.

Wetown LV™ epoxy insulation provides longer life (50 years) for the system as Class H insulation allows for continuous operation at maximum 180°C ambient.

The flame-retardant performance of LV™ epoxy insulation complies to V0 grade (UL standards). The busway system is halogen-free with no toxic emission in case of fire.

Compact design



LV™ busway dimension begins at 125mmx103mm for 400-630A ratings with very compact design. Bus plug is also compact and dimension begins at 360mmx250mmx255mm for 100A. with more space for equipment.

Features

—Ease of installation and safe operation

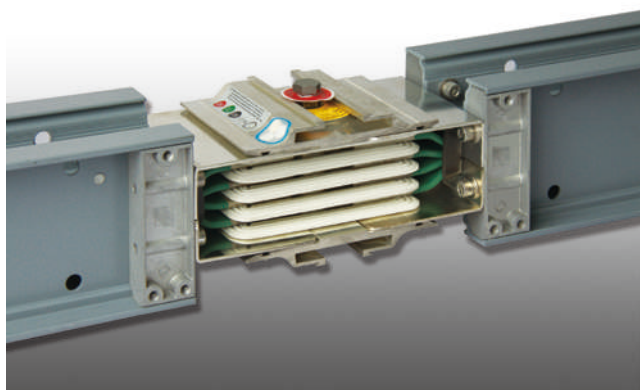
Safe plug-in operation mechanism



The installation of bus plug can be easily achieved by an ordinary wrench to complete the push in and pull out.

The interlock mechanism is designed in compliance with IEC60439-2, preventing on-load connection and fully insuring the safety of the operator.

Unique error-proof device



A unique error-proof device is designed to prevent potential damage on bus bar due to incorrect connection.

With this unique device, the installers can not connect two sections of busway successfully with incorrect phase orientation.

Features

—Ease of installation and safe operation

Unique joint design



- Single bolt joint design is applied to shorten the time of connection by 50% than the traditional design.
- Double headed "break off" joint bolt is applied to tighten the busway with no torque wrench required. Just a common 16mm socket wrench is used to fasten the fixed captive torque bolt with red indication disc. Belleville spring washers are adopted to ensure pressure evenly applied across the joint.
- Joint insulator with a convex-concave groove edge provides an increased creepage distance.
- Color coded temperature indicator is applied at busway joint to give an early warning when high temperature occurs at the joint.



High quality guarantee by the state of art equipment and process



High-speed sawing machine, imported from Germany, Numerical control machinery is used to precision polish-saw all busbar ends.

The resulting high quality bus end finish does not suffer from the deformed, stretched, inconsistent flat end surfaces common with punched busbar at the most critical interconnection joint locations.



Imported Robot for bus bar welding, the first one adopted for busway manufacturing in China, provides a high quality welding, more precisely and stably than manual process.

High quality guarantee by the state of art equipment and process



Automatic assembly line, the most state of art in the world, guarantees a stable quality and fast delivery. One section of busway feeder can be completed within 90 seconds.



Wetown LV™ busway demonstrates its high quality in careful selection of materials:

high quality raw materials such as copper raw material with purity up to 99.9935%, key materials and accessories imported from Canada, USA, Austria.

Standards and certificates

Reference Standards

LV busway system complies with:

IEC 60947.2-1997

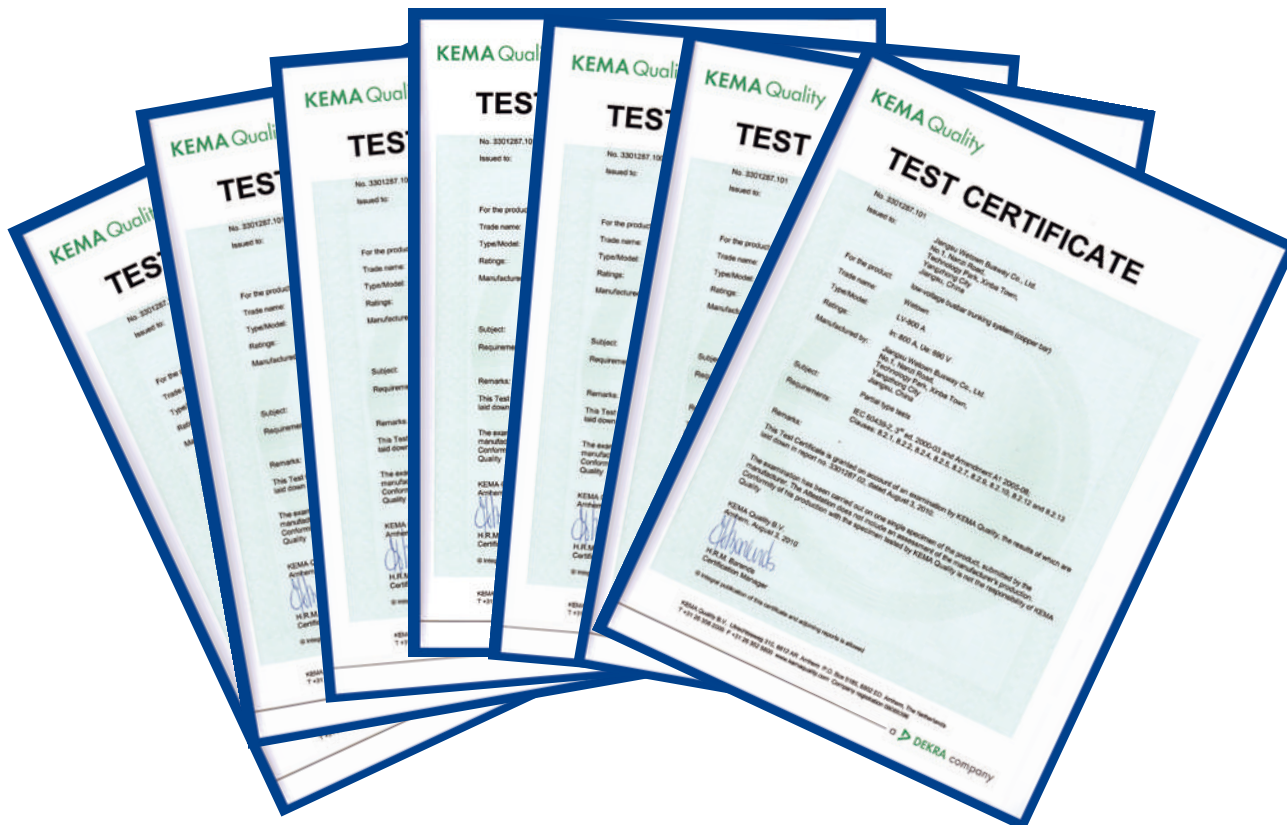
IEC 60439.1-2004

IEC 60439.2-2000

IEC 60529

JB/T9662-1999

Certificates



Electrical specification

WETOWN LV™ Series Busway aluminum alloy housing provide an extremely low impedance ground path with small resistance for both copper and aluminum systems. Plug-in outlet grounding is supplied with tin-plated copper tabs bolted to the plug in box housing for superior continuity through standard bus plug ground stabs.

Grounding resistance of LV busway system (temperature=20°C):

LVC Table 10-1

| Current | Internal 50% ground bus resistance($\mu\Omega/m$) | Integrated housing ground DC resistance($\mu\Omega/m$) |
|---------|---|--|
| 400 | 197.4 | 22.88 |
| 630 | 148.1 | 22.88 |
| 800 | 107.7 | 21.60 |
| 1000 | 91.1 | 20.83 |
| 1250 | 66.6 | 19.19 |
| 1600 | 47.4 | 17.16 |
| 2000 | 37.3 | 15.60 |
| 2500 | 28.3 | 13.76 |
| 3200 | 24.9 | 9.14 |
| 4000 | 18.6 | 8.12 |
| 5000 | 14.2 | 7.13 |
| 6300 | 11.0 | 5.20 |

LVA Table 10-2

| Current | Internal 50% ground bus resistance($\mu\Omega/m$) | Integrated housing ground DC resistance($\mu\Omega/m$) |
|---------|---|--|
| 250 | 291.7 | 22.88 |
| 400 | 233.3 | 22.01 |
| 630 | 179.5 | 20.83 |
| 800 | 147.7 | 19.84 |
| 1000 | 112.2 | 18.29 |
| 1250 | 83.9 | 16.48 |
| 1600 | 61.7 | 14.44 |
| 2000 | 56.1 | 9.59 |
| 2500 | 42.0 | 8.60 |
| 3200 | 30.9 | 7.50 |
| 4000 | 25.5 | 6.80 |

Electrical specification

Short-circuit ratings

LV busway provides a stable and efficient power transmission, with a high short-circuit withstand capability.

LV busway has been certified by KEMA to be in compliance

with IEC60439-1 and-2 short circuit withstand test for 1 second.

Copper conductor

Table 11-1

| Current | Rated short circuit withstand current(ICW)KA | Rated peak withstand current(IPK)KA |
|---------|--|-------------------------------------|
| 400 | 30 | 63 |
| 630 | | |
| 800 | | |
| 1000 | 50 | 105 |
| 1250 | | |
| 1600 | | |
| 2000 | 65 | 143 |
| 2500 | | |
| 3200 | | |
| 4000 | 120 | 264 |
| 5000 | | |
| 6300 | | |

Aluminum conductor

Table 11-2

| Current | Rated short circuit withstand current(ICW)KA | Rated peak withstand current(IPK)KA |
|---------|--|-------------------------------------|
| 250 | 20 | 40 |
| 400 | | |
| 630 | 30 | 63 |
| 800 | | |
| 1000 | 50 | 105 |
| 1250 | | |
| 1600 | 65 | 143 |
| 2000 | | |
| 2500 | 80 | 176 |
| 3200 | | |
| 4000 | 120 | 264 |
| | | |

Electrical specification

Resistance, reactance, impedance and voltage drop

WETOWN LV™ Series Busway has low voltage-drop values. Minimum reactance (X) is due to very close bar spacings (sandwiched construction) and a non-magnetic housing. Values shown are identical for plug-in and feeder.

50Hz values shown. For 60Hz, multiply reactance (X) by 1.2048 and resistance values do not change. Calculate new voltage drop $V_d = \text{amps load} \times 3 (R \cos Q + X \sin Q) \text{ m}$, where $\cos Q = \text{Power Factor}$.

Copper busway (50Hz, temperature = 20°C)

Table 12-1

| Current | Resistance/ (mΩ/m) | Reactance/ (mΩ/m) | Impedance/ (mΩ/m) | Voltage drop per meter(V) | | | | |
|---------|-----------------------|----------------------|----------------------|---------------------------|-------|-------|-------|-------|
| | | | | Power factor cosφ | | | | |
| | | | | 0.6 | 0.7 | 0.8 | 0.9 | 1 |
| 400 | 0.099 | 0.031 | 0.104 | 0.092 | 0.100 | 0.107 | 0.112 | 0.108 |
| 630 | | | | | | | | |
| 800 | 0.079 | 0.028 | 0.084 | 0.089 | 0.096 | 0.101 | 0.105 | 0.100 |
| 1000 | 0.061 | 0.024 | 0.065 | 0.096 | 0.103 | 0.109 | 0.113 | 0.105 |
| 1250 | 0.044 | 0.020 | 0.048 | 0.091 | 0.097 | 0.102 | 0.104 | 0.095 |
| 1600 | 0.033 | 0.017 | 0.037 | 0.089 | 0.093 | 0.097 | 0.098 | 0.088 |
| 2000 | 0.025 | 0.014 | 0.028 | 0.089 | 0.094 | 0.097 | 0.098 | 0.086 |
| 2500 | 0.019 | 0.011 | 0.022 | 0.087 | 0.091 | 0.094 | 0.094 | 0.082 |
| 3200 | 0.016 | 0.010 | 0.019 | 0.096 | 0.100 | 0.103 | 0.104 | 0.090 |
| 4000 | 0.012 | 0.007 | 0.014 | 0.089 | 0.093 | 0.096 | 0.097 | 0.086 |
| 5000 | 0.009 | 0.004 | 0.010 | 0.077 | 0.082 | 0.086 | 0.089 | 0.082 |
| 6300 | 0.007 | 0.002 | 0.007 | 0.061 | 0.068 | 0.074 | 0.079 | 0.080 |

Aluminum busway (50Hz, temperature = 20°C)

Table 12-2

| Current | Resistance/ (mΩ/m) | Reactance/ (mΩ/m) | Impedance/ (mΩ/m) | Voltage drop per meter(V) | | | | |
|---------|-----------------------|----------------------|----------------------|---------------------------|-------|-------|-------|-------|
| | | | | Power factor cosφ | | | | |
| | | | | 0.6 | 0.7 | 0.8 | 0.9 | 1 |
| 250 | 0.203 | 0.031 | 0.205 | 0.064 | 0.071 | 0.078 | 0.085 | 0.088 |
| 400 | 0.162 | 0.028 | 0.165 | 0.083 | 0.092 | 0.101 | 0.110 | 0.112 |
| 630 | 0.125 | 0.024 | 0.127 | 0.103 | 0.114 | 0.125 | 0.134 | 0.136 |
| 800 | 0.101 | 0.021 | 0.104 | 0.108 | 0.119 | 0.130 | 0.139 | 0.140 |
| 1000 | 0.077 | 0.018 | 0.079 | 0.105 | 0.116 | 0.126 | 0.134 | 0.134 |
| 1250 | 0.058 | 0.015 | 0.060 | 0.101 | 0.111 | 0.120 | 0.127 | 0.125 |
| 1600 | 0.043 | 0.012 | 0.044 | 0.098 | 0.107 | 0.115 | 0.121 | 0.118 |
| 2000 | 0.039 | 0.011 | 0.040 | 0.111 | 0.121 | 0.130 | 0.137 | 0.134 |
| 2500 | 0.029 | 0.008 | 0.030 | 0.103 | 0.113 | 0.121 | 0.128 | 0.125 |
| 3200 | 0.021 | 0.005 | 0.022 | 0.093 | 0.103 | 0.111 | 0.119 | 0.118 |
| 4000 | 0.016 | 0.003 | 0.017 | 0.085 | 0.094 | 0.103 | 0.111 | 0.113 |

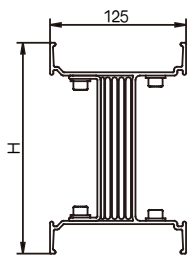
Physical data

Straight length

Feeder, the straight length without outlets, may be installed either horizontally or vertically.

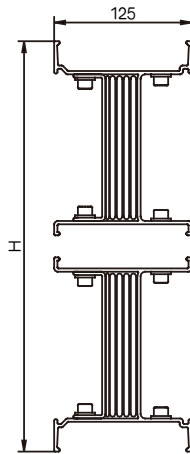
The standard length is either 3000mm or 4000mm.

The minimum length is 460mm.



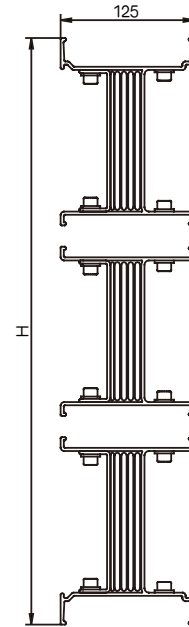
Single-deck
LVA-02~06
LVC-04~25

Fig 13-1



Dual-deck
LVA-20~40
LVC-32~50

Fig 13-2



Tripple-deck
LVC-63

Fig 13-3

Copper conductor

Table 13-1

| Current | Dimension | | Weight per meter (kg/m) | | Fig. |
|---------|-----------|------------|-------------------------|--------------------|------|
| | Width (W) | Height (H) | 4wire 100%N | 5wire 100%N, 50%PE | |
| 400 | 125 | 103 | 11.8 | 12.9 | 13-1 |
| 630 | | 118 | 14.7 | 16.2 | |
| 800 | | 128 | 16.6 | 18.4 | |
| 1000 | | 153 | 21.3 | 23.7 | |
| 1600 | | 188 | 28.3 | 31.6 | |
| 2000 | | 223 | 34.9 | 39.1 | |
| 2500 | | 273 | 44.6 | 50.2 | |
| 3200 | | 352 | 53.3 | 59.6 | |
| 4000 | | 432 | 68.8 | 77.3 | |
| 5000 | 532 | 88.2 | 99.4 | 13-3 | |
| 6300 | 701 | 114.5 | 128.9 | | |

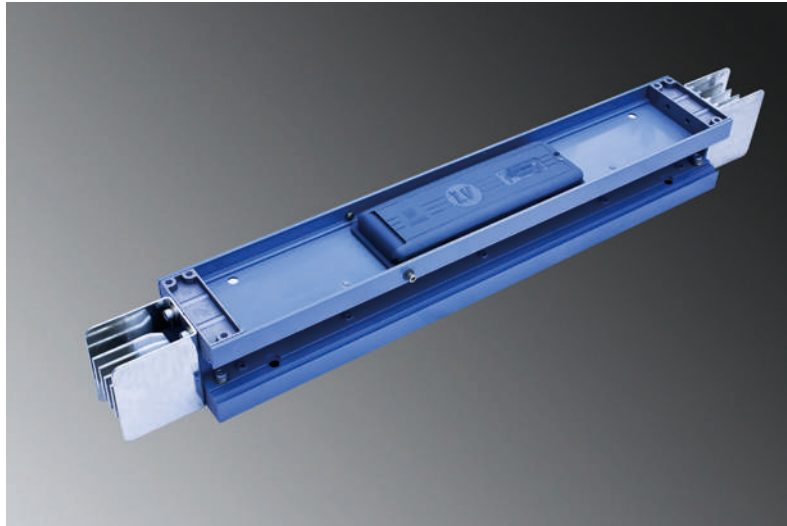
Aluminum conductor

Table 13-2

| Current | Dimension | | Weight per meter (kg/m) | | Fig. |
|---------|-----------|------------|-------------------------|--------------------|------|
| | Width (W) | Height (H) | 4wire 100%N | 5wire 100%N, 50%PE | |
| 250 | 125 | 103 | 6.7 | 7.1 | 13-1 |
| 400 | | 113 | 7.4 | 7.8 | |
| 630 | | 128 | 8.4 | 8.9 | |
| 800 | | 143 | 9.4 | 10.0 | |
| 1000 | | 168 | 11.1 | 11.9 | |
| 1250 | | 203 | 13.5 | 14.6 | |
| 1600 | | 253 | 16.9 | 18.3 | |
| 2000 | | 322 | 21.2 | 22.8 | |
| 2500 | | 392 | 26.0 | 28.1 | |
| 3200 | 492 | 32.8 | 35.7 | | |
| 4000 | 572 | 39.2 | 42.9 | | |

Fittings

Plug-in straight length



The plug-in busway has a flexible design with optional plug outlets on both sides. A maximum of 5 outlets can be fixed on each side of 3m standard length. The customer may reserve plug outlets for extension in the future when changes occur in terms of the equipment load or busway run. Both base plate and socket cover are set for each plug outlet. Base plate helps to prevent fingers from contacting live conductors (IP2X) by accident, on which the phase sequences of conductors are identified. Socket cover prevents the conductive contacting surface from being contaminated. A pad may be used to keep off dust or moisture.

Standard length is 3000mm or 4000mm. The minimum length is 720mm. The minimum length of L1 (distance from the center of plug outlet to standard end) is 360mm. The minimum length of L2 (distance between the centers of two adjacent plug outlets) is 570mm.

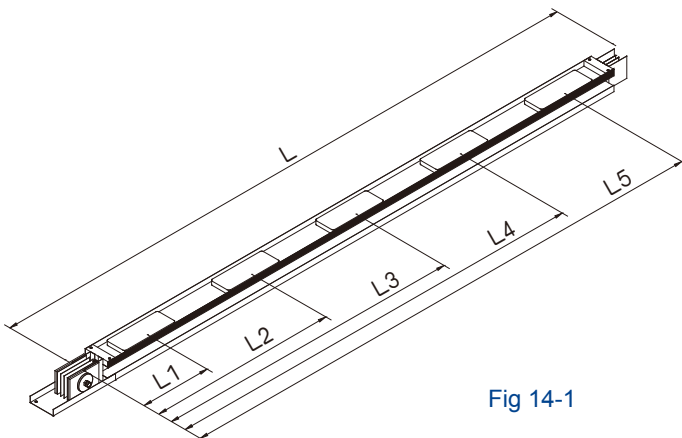


Fig 14-1

- L1=0.36
- L2=0.93
- L3=1.50
- L4=2.07
- L5=2.64

Standard length:

LVC: L=1、2、3m LVA: L=1、2、3m

Optional length:

LVC: L=0.72~2.99m LVA: L=0.72~4m

Fittings

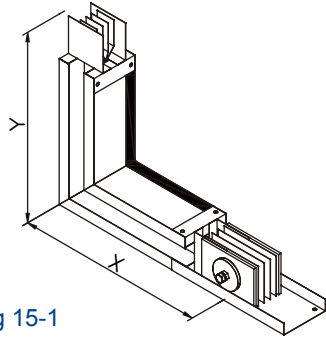


Fig 15-1

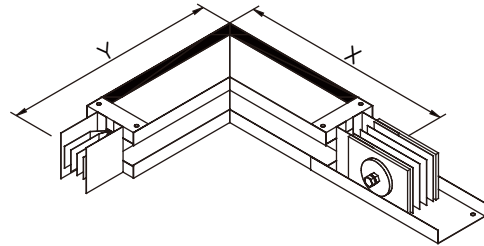


Fig 15-2

L flatwise elbow

Table 15-1

| Rated current (A) | Copper busway size (mm) | | | | Aluminium busway size (mm) | | | |
|-------------------|-------------------------|-----|----------|-----|----------------------------|-----|----------|-----|
| | Minium | | Standard | | Minium | | Standard | |
| | X | Y | X | Y | X | Y | X | Y |
| 250 | | | | | 341 | 341 | 450 | 450 |
| 400 | 341 | 341 | 400 | 400 | 351 | 351 | 450 | 450 |
| 630 | 341 | 341 | 400 | 400 | 366 | 366 | 450 | 450 |
| 800 | 351 | 351 | 400 | 400 | 381 | 381 | 450 | 450 |
| 1000 | 366 | 366 | 400 | 400 | 406 | 406 | 450 | 450 |
| 1250 | 391 | 391 | 400 | 400 | 441 | 441 | 500 | 500 |
| 1600 | 421 | 421 | 550 | 550 | 491 | 491 | 500 | 500 |
| 2000 | 461 | 461 | 550 | 550 | 560 | 560 | 850 | 850 |
| 2500 | 511 | 511 | 550 | 550 | 630 | 630 | 850 | 850 |
| 3200 | 590 | 590 | 800 | 800 | 730 | 730 | 850 | 850 |
| 4000 | 670 | 670 | 800 | 800 | 810 | 810 | 850 | 850 |
| 5000 | 770 | 770 | 800 | 800 | | | | |
| 6300 | 939 | 939 | 950 | 950 | | | | |

L edgewise elbow

Table 15-2

| Rated current (A) | Copper busway size (mm) | | | | Aluminium busway size (mm) | | | |
|-------------------|-------------------------|-----|----------|-----|----------------------------|-----|----------|-----|
| | Minium | | Standard | | Minium | | Standard | |
| | X | Y | X | Y | X | Y | X | Y |
| 250 | | | | | 363 | 363 | 400 | 400 |
| 400 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 630 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 800 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 1000 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 1250 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 1600 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 2000 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 2500 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 3200 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 4000 | 363 | 363 | 400 | 400 | 363 | 363 | 400 | 400 |
| 5000 | 363 | 363 | 400 | 400 | | | | |
| 6300 | 363 | 363 | 400 | 400 | | | | |

Fittings

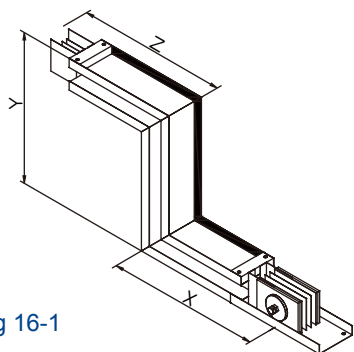


Fig 16-1

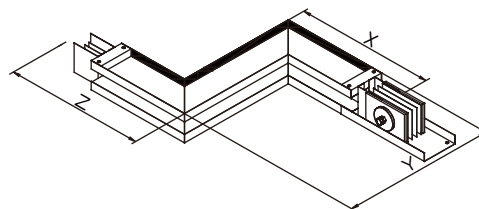


Fig 16-2

Z flatwise offset

Table 16-1

| Rated current (A) | Copper busway size (mm) | | | | | | Aluminium busway size (mm) | | | | | |
|-------------------|-------------------------|------|-----|----------|------|-----|----------------------------|------|-----|----------|------|-----|
| | Minium | | | Standard | | | Minium | | | Standard | | |
| | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 250 | | | | | | | 341 | 326 | 341 | 450 | 500 | 450 |
| 400 | 341 | 326 | 341 | 400 | 450 | 400 | 351 | 346 | 351 | 450 | 500 | 450 |
| 630 | 341 | 326 | 341 | 400 | 450 | 400 | 366 | 376 | 366 | 450 | 500 | 450 |
| 800 | 351 | 346 | 351 | 400 | 450 | 400 | 381 | 406 | 381 | 450 | 500 | 450 |
| 1000 | 366 | 376 | 366 | 400 | 450 | 400 | 406 | 456 | 406 | 450 | 500 | 450 |
| 1250 | 391 | 426 | 391 | 400 | 450 | 400 | 441 | 526 | 441 | 500 | 650 | 500 |
| 1600 | 421 | 486 | 421 | 550 | 700 | 550 | 491 | 626 | 491 | 500 | 650 | 500 |
| 2000 | 461 | 566 | 461 | 550 | 700 | 550 | 560 | 764 | 560 | 850 | 1300 | 850 |
| 2500 | 511 | 666 | 511 | 550 | 700 | 550 | 630 | 904 | 630 | 850 | 1300 | 850 |
| 3200 | 590 | 824 | 590 | 800 | 1200 | 800 | 730 | 1104 | 730 | 850 | 1300 | 850 |
| 4000 | 670 | 984 | 670 | 800 | 1200 | 800 | 810 | 1264 | 810 | 850 | 1300 | 850 |
| 5000 | 770 | 1184 | 770 | 800 | 1200 | 800 | | | | | | |
| 6300 | 939 | 1522 | 939 | 950 | 1550 | 950 | | | | | | |

Z edgewise offset

Table 16-2

| Rated current (A) | Copper busway size (mm) | | | | | | Aluminium busway size (mm) | | | | | |
|-------------------|-------------------------|-----|-----|----------|-----|-----|----------------------------|-----|-----|----------|-----|-----|
| | Minium | | | Standard | | | Minium | | | Standard | | |
| | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 250 | | | | | | | 363 | 370 | 363 | 400 | 400 | 400 |
| 400 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 630 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 800 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 1000 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 1250 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 1600 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 2000 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 2500 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 3200 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 4000 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 5000 | 363 | 370 | 363 | 400 | 400 | 400 | | | | | | |
| 6300 | 363 | 370 | 363 | 400 | 400 | 400 | | | | | | |

Fittings

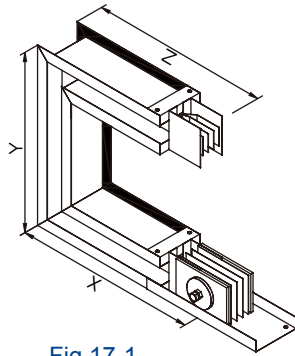


Fig 17-1

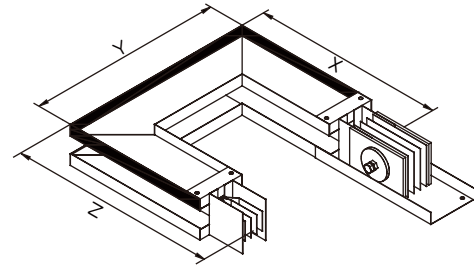


Fig 17-2

Flatwise U

Table 17-1

| Rated current (A) | Copper busway size (mm) | | | | | | Aluminium busway size (mm) | | | | | |
|-------------------|-------------------------|------|-----|----------|------|-----|----------------------------|------|-----|----------|------|-----|
| | Minium | | | Standard | | | Minium | | | Standard | | |
| | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 250 | | | | | | | 341 | 326 | 341 | 450 | 500 | 450 |
| 400 | 341 | 326 | 341 | 400 | 450 | 400 | 351 | 346 | 351 | 450 | 500 | 450 |
| 630 | 341 | 326 | 341 | 400 | 450 | 400 | 366 | 376 | 366 | 450 | 500 | 450 |
| 800 | 351 | 346 | 351 | 400 | 450 | 400 | 381 | 406 | 381 | 450 | 500 | 450 |
| 1000 | 366 | 376 | 366 | 400 | 450 | 400 | 406 | 456 | 406 | 450 | 500 | 450 |
| 1250 | 391 | 426 | 391 | 400 | 450 | 400 | 441 | 526 | 441 | 500 | 650 | 500 |
| 1600 | 421 | 486 | 421 | 550 | 700 | 550 | 491 | 626 | 491 | 500 | 650 | 500 |
| 2000 | 461 | 566 | 461 | 550 | 700 | 550 | 560 | 764 | 560 | 500 | 650 | 500 |
| 2500 | 511 | 666 | 511 | 550 | 700 | 550 | 630 | 904 | 630 | 850 | 1300 | 850 |
| 3200 | 590 | 824 | 590 | 800 | 1200 | 800 | 730 | 1104 | 730 | 850 | 1300 | 850 |
| 4000 | 670 | 984 | 670 | 800 | 1200 | 800 | 810 | 1264 | 810 | 850 | 1300 | 850 |
| 5000 | 770 | 1184 | 770 | 800 | 1200 | 800 | | | | | | |
| 6300 | 939 | 1522 | 939 | 950 | 1550 | 950 | | | | | | |

Edgewise U

Table 17-2

| Rated current (A) | Copper busway size (mm) | | | | | | Aluminium busway size (mm) | | | | | |
|-------------------|-------------------------|-----|-----|----------|-----|-----|----------------------------|-----|-----|----------|-----|-----|
| | Minium | | | Standard | | | Minium | | | Standard | | |
| | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 250 | | | | | | | 363 | 370 | 363 | 400 | 400 | 400 |
| 400 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 630 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 800 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 1000 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 1250 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 1600 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 2000 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 2500 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 3200 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 4000 | 363 | 370 | 363 | 400 | 400 | 400 | 363 | 370 | 363 | 400 | 400 | 400 |
| 5000 | 363 | 370 | 363 | 400 | 400 | 400 | | | | | | |
| 6300 | 363 | 370 | 363 | 400 | 400 | 400 | | | | | | |

Fittings

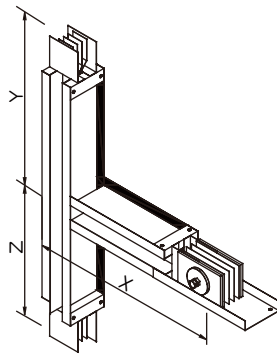


Fig 18-1

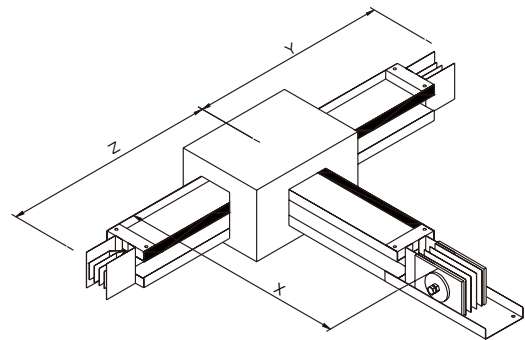


Fig 18-2

Flatwise Tee

Table 18-1

| Rated current (A) | Copper busway size (mm) | | | | | | Aluminium busway size (mm) | | | | | |
|-------------------|-------------------------|-----|-----|----------|-----|-----|----------------------------|-----|-----|----------|-----|-----|
| | Minium | | | Standard | | | Minium | | | Standard | | |
| | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 250 | | | | | | | 341 | 290 | 290 | 450 | 350 | 350 |
| 400 | 341 | 290 | 290 | 400 | 350 | 350 | 351 | 295 | 295 | 450 | 350 | 350 |
| 630 | 341 | 290 | 290 | 400 | 350 | 350 | 366 | 302 | 302 | 450 | 350 | 350 |
| 800 | 351 | 295 | 295 | 400 | 350 | 350 | 381 | 310 | 310 | 450 | 350 | 350 |
| 1000 | 366 | 302 | 302 | 400 | 350 | 350 | 406 | 322 | 322 | 450 | 350 | 350 |
| 1250 | 391 | 315 | 315 | 400 | 350 | 350 | 441 | 340 | 340 | 500 | 400 | 400 |
| 1600 | 421 | 330 | 330 | 550 | 400 | 400 | 491 | 365 | 365 | 500 | 400 | 400 |
| 2000 | 461 | 350 | 350 | 550 | 400 | 400 | 560 | 399 | 399 | 850 | 550 | 550 |
| 2500 | 511 | 375 | 375 | 550 | 400 | 400 | 630 | 434 | 434 | 850 | 550 | 550 |
| 3200 | 590 | 414 | 414 | 800 | 550 | 550 | 730 | 484 | 484 | 850 | 550 | 550 |
| 4000 | 670 | 454 | 454 | 800 | 550 | 550 | 810 | 524 | 524 | 850 | 550 | 550 |
| 5000 | 770 | 504 | 504 | 800 | 550 | 550 | | | | | | |
| 6300 | 939 | 589 | 589 | 950 | 600 | 600 | | | | | | |

Edgewise Tee

Table 18-2

| Rated current (A) | Copper busway size (mm) | | | | | | Aluminium busway size (mm) | | | | | |
|-------------------|-------------------------|-----|-----|----------|-----|-----|----------------------------|-----|-----|----------|-----|-----|
| | Minium | | | Standard | | | Minium | | | Standard | | |
| | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 250 | | | | | | | 363 | 411 | 411 | 400 | 500 | 500 |
| 400 | 363 | 411 | 411 | 400 | 500 | 500 | 363 | 421 | 421 | 400 | 500 | 500 |
| 630 | 363 | 411 | 411 | 400 | 500 | 500 | 363 | 436 | 436 | 400 | 500 | 500 |
| 800 | 363 | 426 | 426 | 400 | 500 | 500 | 363 | 451 | 451 | 400 | 500 | 500 |
| 1000 | 363 | 436 | 436 | 400 | 500 | 500 | 363 | 476 | 476 | 400 | 500 | 500 |
| 1250 | 363 | 461 | 461 | 400 | 500 | 500 | 363 | 511 | 511 | 400 | 600 | 600 |
| 1600 | 363 | 496 | 496 | 400 | 600 | 600 | 363 | 561 | 561 | 400 | 600 | 600 |
| 2000 | 363 | 531 | 531 | 400 | 600 | 600 | 363 | 630 | 630 | 400 | 900 | 900 |
| 2500 | 363 | 581 | 581 | 400 | 600 | 600 | 363 | 700 | 700 | 400 | 900 | 900 |
| 3200 | 363 | 660 | 660 | 400 | 900 | 900 | 363 | 800 | 800 | 400 | 900 | 900 |
| 4000 | 363 | 740 | 740 | 400 | 900 | 900 | 363 | 880 | 880 | 400 | 900 | 900 |
| 5000 | 363 | 840 | 840 | 400 | 900 | 900 | | | | | | |
| 6300 | | | | | | | | | | | | |

Fittings

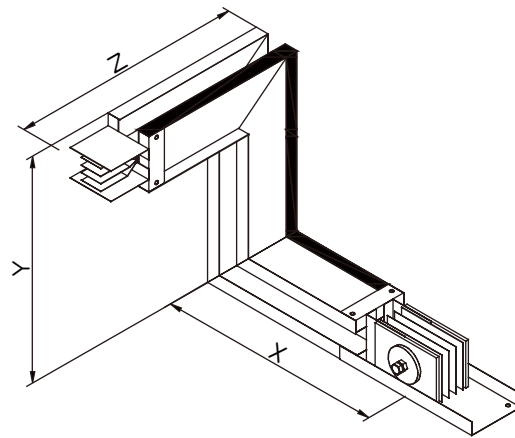


Fig 19-1

Combination Elbow

Table 19-1

| Rated current (A) | Copper busway size (mm) | | | | | | Aluminium busway size (mm) | | | | | |
|-------------------|-------------------------|-----|-----|----------|-----|-----|----------------------------|-----|-----|----------|-----|-----|
| | Minium | | | Standard | | | Minium | | | Standard | | |
| | X | Y | Z | X | Y | Z | X | Y | Z | X | Y | Z |
| 250 | | | | | | | 341 | 348 | 363 | 450 | 450 | 400 |
| 400 | 341 | 348 | 363 | 400 | 400 | 400 | 351 | 358 | 363 | 450 | 450 | 400 |
| 630 | 341 | 348 | 363 | 400 | 400 | 400 | 366 | 373 | 363 | 450 | 450 | 400 |
| 800 | 351 | 358 | 363 | 400 | 400 | 400 | 381 | 388 | 363 | 450 | 450 | 400 |
| 1000 | 366 | 373 | 363 | 400 | 400 | 400 | 406 | 413 | 363 | 450 | 450 | 400 |
| 1250 | 391 | 398 | 363 | 400 | 400 | 400 | 441 | 448 | 363 | 500 | 500 | 400 |
| 1600 | 421 | 428 | 363 | 550 | 550 | 400 | 491 | 498 | 363 | 500 | 500 | 400 |
| 2000 | 461 | 468 | 363 | 550 | 550 | 400 | 560 | 567 | 363 | 850 | 850 | 400 |
| 2500 | 511 | 518 | 363 | 550 | 550 | 400 | 630 | 637 | 363 | 850 | 850 | 400 |
| 3200 | 590 | 597 | 363 | 800 | 800 | 400 | 730 | 737 | 363 | 850 | 850 | 400 |
| 4000 | 670 | 677 | 363 | 800 | 800 | 400 | 810 | 817 | 363 | 850 | 850 | 400 |
| 5000 | 770 | 777 | 363 | 800 | 800 | 400 | | | | | | |
| 6300 | 939 | 946 | 363 | 950 | 950 | 400 | | | | | | |

Fittings

Flange end

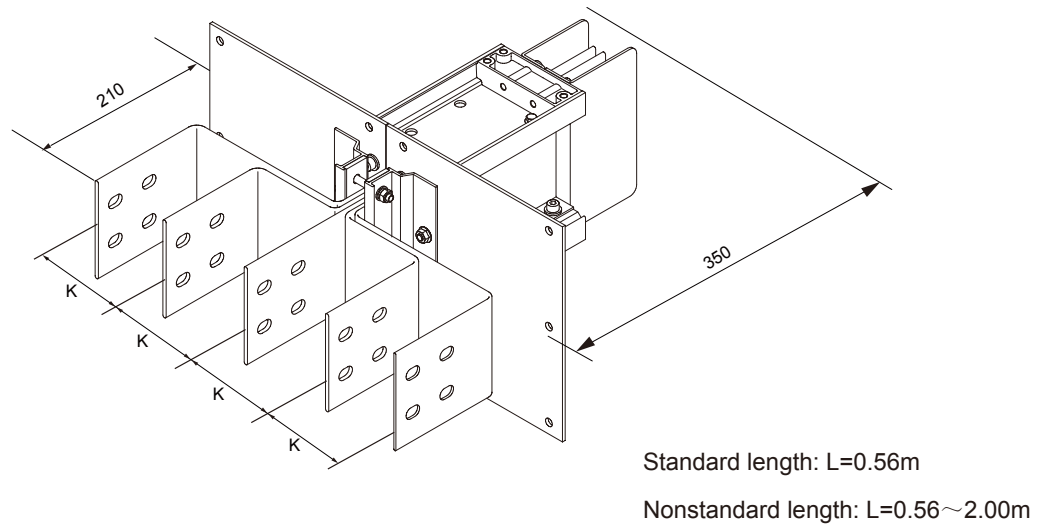
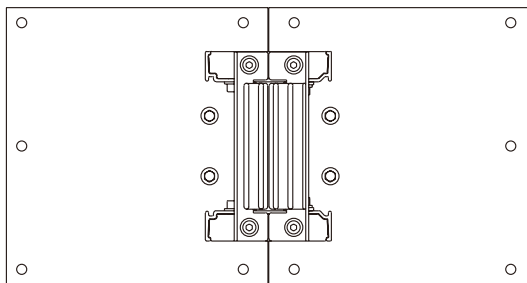
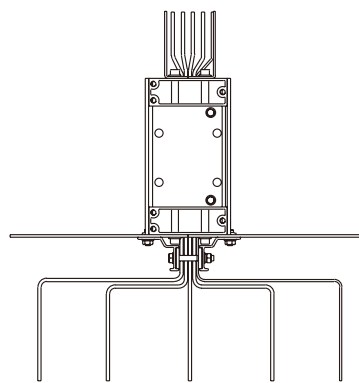


Fig 20-1



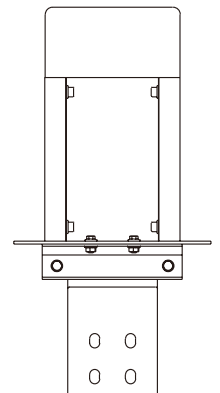
Section view

Fig 20-2



Top view

Fig 20-3



Side view

Fig 20-4

Flanged end and end tap box can be used in connection with any type of switchgear cabinets and transformers. Flanged end busbar spacing can be customized on specific application.

Note:

All the dimensions provided are for standard products. Please contact our engineers for customized dimensions.

Fittings

Flanged end cut out and drilling pattern

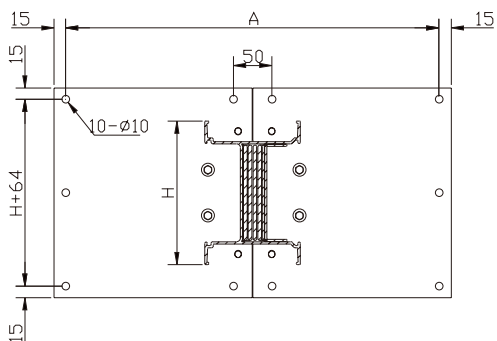


Fig 21-1

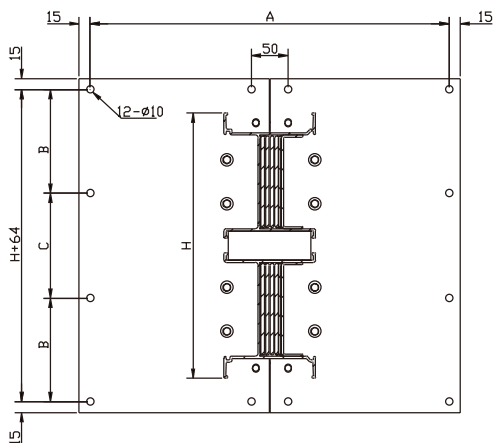


Fig 21-2

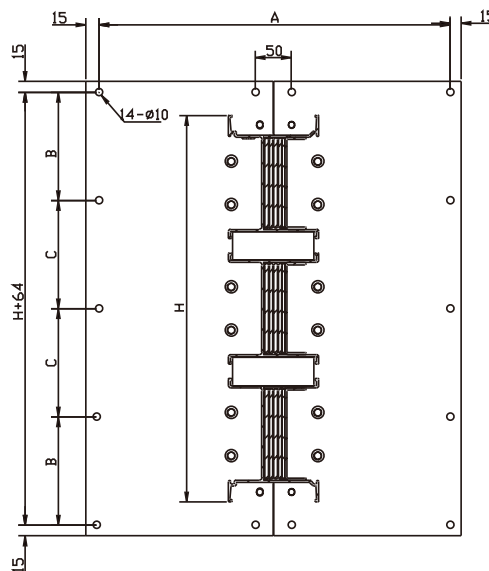


Fig 21-3

LVC

Table 21-1

| Rated Current (A) | 3L+N+PE Size (mm) | | | | 3L+N Size (mm) | | | Fig |
|-------------------|-------------------|-----|-----|-------|----------------|-----|-------|------|
| | H | A | B | C | A | B | C | |
| 400 | 103 | 490 | - | - | 370 | - | - | 21-1 |
| 630 | 103 | 490 | - | - | 370 | - | - | |
| 800 | 118 | 490 | - | - | 370 | - | - | |
| 1000 | 128 | 490 | - | - | 370 | - | - | |
| 1250 | 153 | 490 | - | - | 370 | - | - | |
| 1600 | 188 | 490 | - | - | 370 | - | - | |
| 2000 | 223 | 490 | - | - | 370 | - | - | |
| 2500 | 273 | 490 | - | - | 370 | - | - | |
| 3200 | 352 | 490 | 140 | 136 | 370 | 140 | 136 | |
| 4000 | 432 | 490 | 165 | 166 | 370 | 165 | 166 | 21-2 |
| 5000 | 532 | 490 | 200 | 196 | 370 | 200 | 196 | 21-3 |
| 6300 | 701 | 490 | 190 | 192.5 | 370 | 190 | 192.5 | |

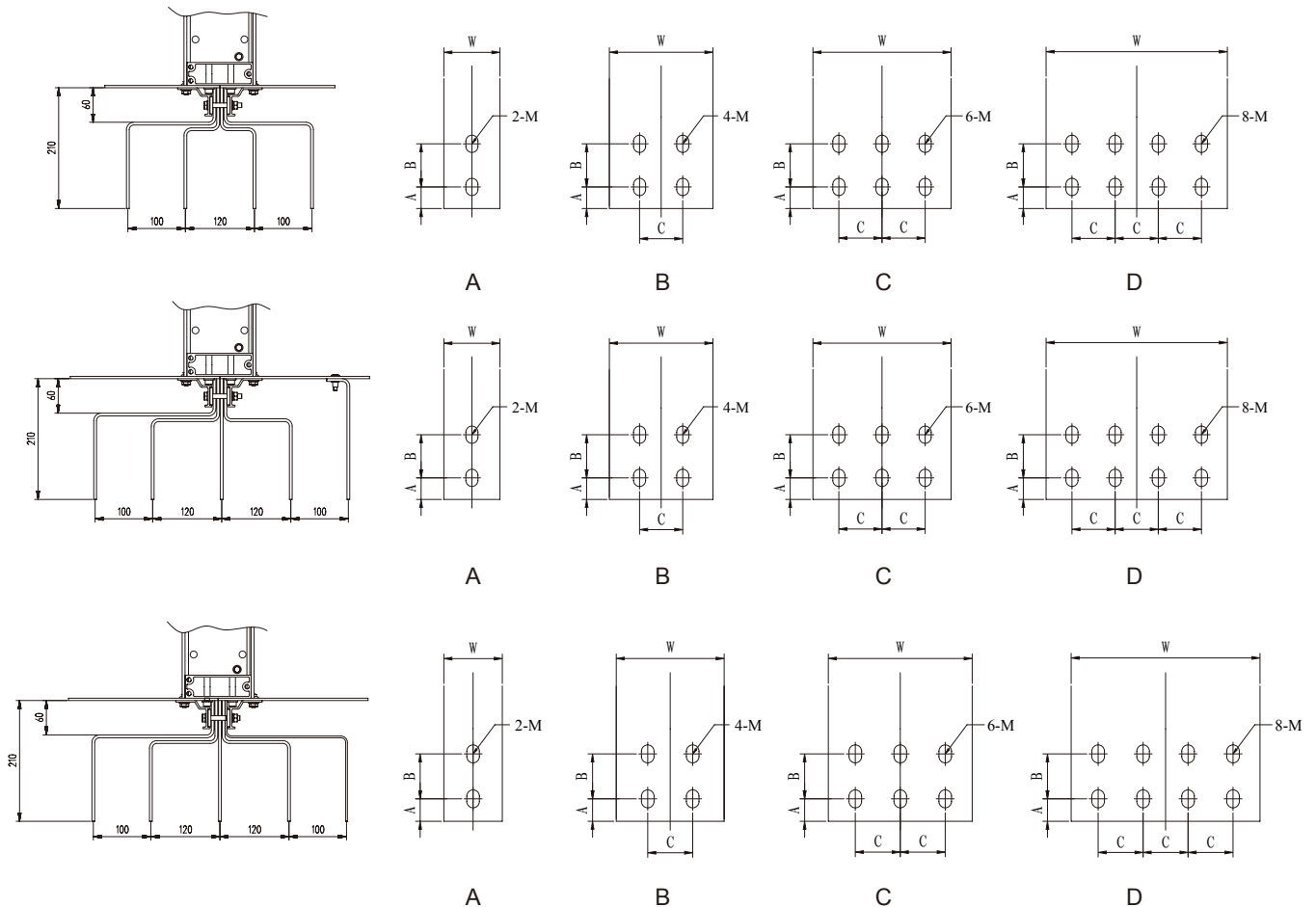
LVA

Table 21-2

| Rated Current (A) | 3L+N+PE Size (mm) | | | | 3L+N Size (mm) | | | Fig |
|-------------------|-------------------|-----|-----|-----|----------------|-----|-----|------|
| | H | A | B | C | A | B | C | |
| 250 | 103 | 490 | - | - | 370 | - | - | 21-1 |
| 400 | 113 | 490 | - | - | 370 | - | - | |
| 630 | 128 | 490 | - | - | 370 | - | - | |
| 800 | 143 | 490 | - | - | 370 | - | - | |
| 1000 | 168 | 490 | - | - | 370 | - | - | |
| 1250 | 203 | 490 | - | - | 370 | - | - | |
| 1600 | 253 | 490 | - | - | 370 | - | - | |
| 2000 | 322 | 490 | 130 | 126 | 370 | 130 | 126 | |
| 2500 | 392 | 490 | 150 | 156 | 370 | 150 | 156 | |
| 3200 | 492 | 490 | 185 | 186 | 370 | 185 | 186 | 21-2 |
| 4000 | 572 | 490 | 210 | 216 | 370 | 210 | 216 | |

Fittings

Flanged end bar hole pattern



Copper conductor

Table 22-1

| Rated Current | A | B | C | M | Type |
|---------------|----|----|----|--------|------|
| 400 | 25 | 50 | | Φ12 | A |
| 630 | 25 | 50 | | Φ14×20 | A |
| 800 | 25 | 50 | | Φ14×20 | A |
| 1000 | 25 | 50 | | Φ14×20 | A |
| 1250 | 25 | 50 | 50 | Φ14×20 | B |
| 1600 | 25 | 50 | 50 | Φ14×20 | B |
| 2000 | 25 | 50 | 50 | Φ14×20 | C |
| 2500 | 25 | 50 | 50 | Φ14×20 | D |
| 3200 | 25 | 50 | 50 | Φ14×20 | B |
| 4000 | 25 | 50 | 50 | Φ14×20 | C |
| 5000 | 25 | 50 | 50 | Φ14×20 | D |
| 6300 | 25 | 50 | 50 | Φ14×20 | C |

Aluminum conductor

Table 22-2

| Rated Current | A | B | C | M | Type |
|---------------|----|----|----|--------|------|
| 250 | 25 | 50 | | Φ14×20 | A |
| 400 | 25 | 50 | | Φ14×20 | A |
| 630 | 25 | 50 | | Φ14×20 | A |
| 800 | 25 | 50 | | Φ14×20 | A |
| 1000 | 25 | 50 | 50 | Φ14×20 | B |
| 1250 | 25 | 50 | 50 | Φ14×20 | C |
| 1600 | 25 | 50 | 50 | Φ14×20 | C |
| 2000 | 25 | 50 | 50 | Φ14×20 | D |
| 2500 | 25 | 50 | 50 | Φ14×20 | C |
| 3200 | 25 | 50 | 50 | Φ14×20 | C |
| 4000 | 25 | 50 | 50 | Φ14×20 | D |

Fittings

Expansion joint

Expansion length is the transition section compensating for thermal expansion, it is normally set each 60m in linear distance.

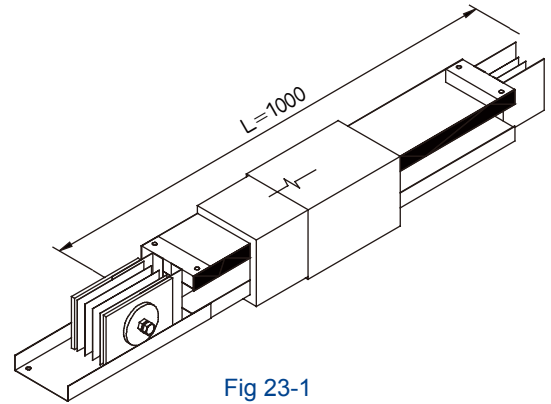


Fig 23-1

Transition joint

This transition section is used for reducing busbar size to the final load, it provides users with more economic power transmission and distribution method.

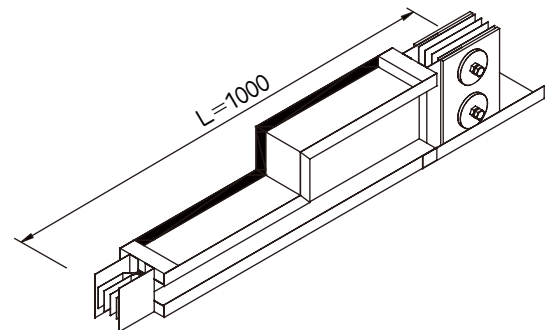


Fig 23-2

Transposition joint

Transposition section is the transition parts used for changing phase sequence of the busbar; its minimum size is 1500mm. The phase sequence of both sides has to be provided by the customer.

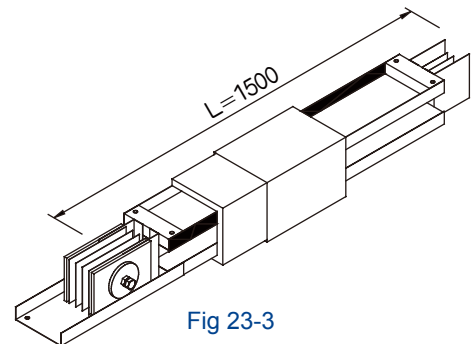


Fig 23-3

Terminal cover

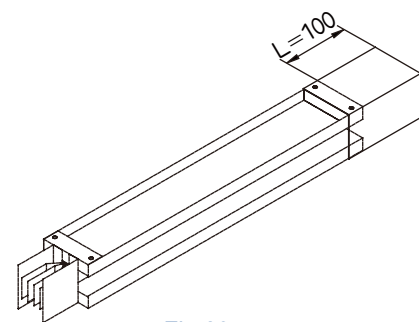


Fig 23-4

Fittings

Bus plug

LV bus plug is adopted to apply electrical power directly to the load from the busway system. Fully considering customer's requirements, LV bus plug offers the options of circuit breaker or fuse.

Bus plug with circuit breaker

- Circuit breaker protection can be available with a current range from 16A-1000A.
- Load protection in the plug can be 3-Pole or 4-Pole circuit breakers, including accessories of breakers such as rotary handles, shunt release, thermal magnetic release and leakage-current protection module.

Plug with fuse

- Plug-boxes with fuses can be produced according to customer specifications.
- Unique fail-safe base pins

the plug is equipped with a positioning device that prevents incorrect phase installations.

plug Pins: All the pins are silver-plated to improve the electrical conductivity.

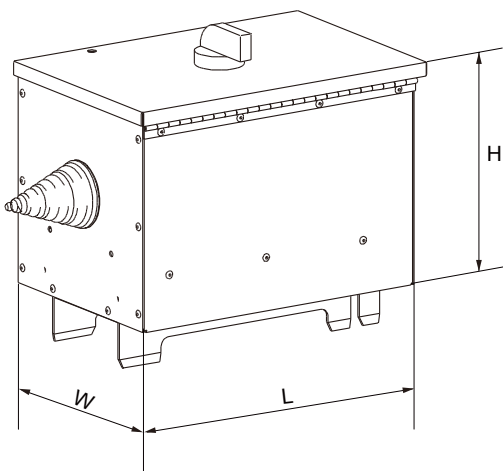
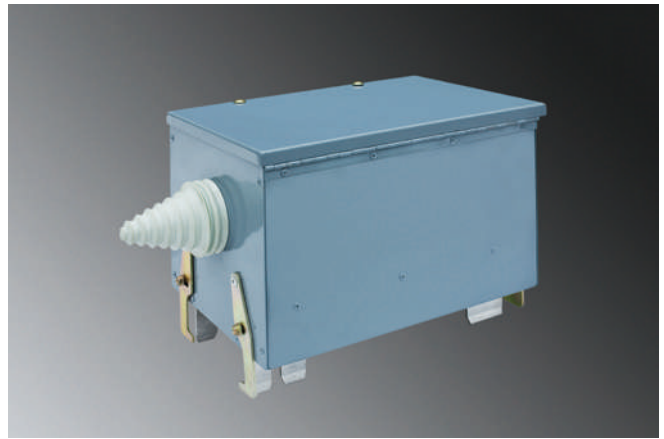


Fig 24-1

Plug-in box Dimensions (L×W×H)mm

- For non-standard dimension, please contact the manufacturer.

Table 24-1

| Current ratings (A) | Plug-in box Dimensions | | |
|---------------------|------------------------|-------------|--------------|
| | L(mm) Length | W(mm) Width | H(mm) Height |
| 100 | 360 | 250 | 250 |
| 160 | 400 | 250 | 250 |
| 250 | 520 | 270 | 270 |
| 400 | 650 | 310 | 310 |
| 630 | 800 | 340 | 340 |
| 800-1000 | 1200 | 420 | 350 |

Note:

Table 24-1 size is based on the size of common circuit breaker 3p/4p.

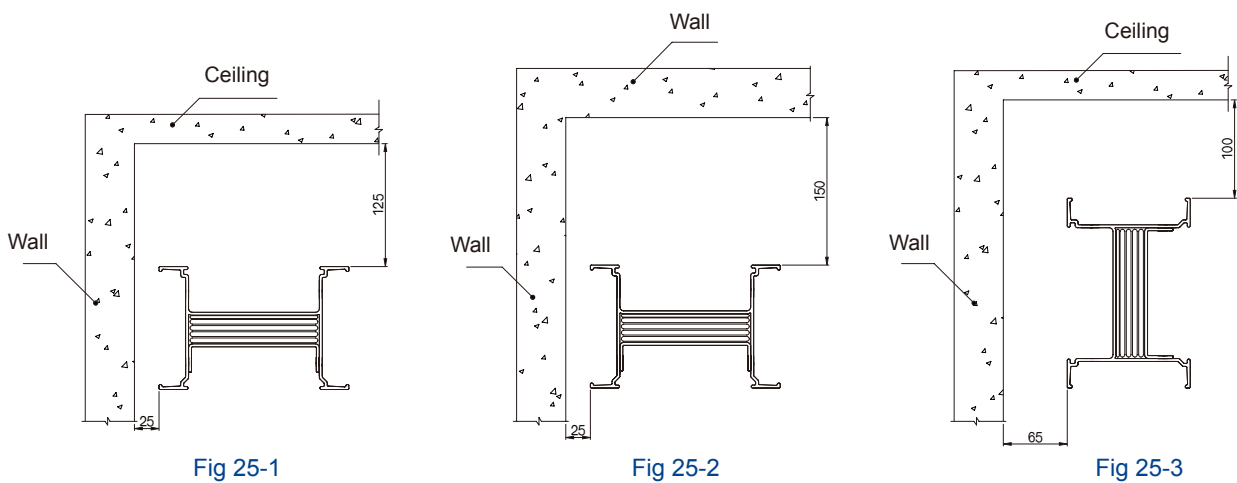
Installation

LV busway protection class can be up to IP66 according to different applications.

Notes:

- IP40---"4" indicates that solid objects greater than 1mm in diameter will not penetrate the housing."0" denotes no protection.
- IP42---"4" indicates that solid objects greater than 1mm in diameter will not penetrate the housing."2" denotes prevention of water dripping inside by an angle of up to 15°.
- IP54---"5" for dust, "4" indicates splashes of water.
- IP65---"6" for dust density, "5" indicates protection from water spray.
- IP66---"6" for dust density, "6" for protection of stronger water spray

Minimum clearance required for installation



Minimum clearance required for plug-in box installation

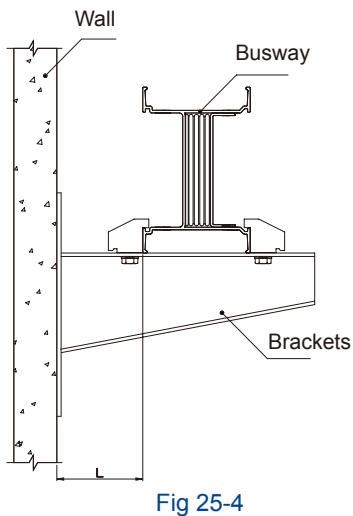


Fig 25-4

Table 25-1

| Current level for plug-in box | L(mm) |
|-------------------------------|-------|
| 100 | 150 |
| 160 | 175 |
| 250 | 195 |
| 400 | 210 |
| 630 | 230 |
| 800 | 260 |
| 1000 | 300 |

Installation

Horizontal wall-through installation

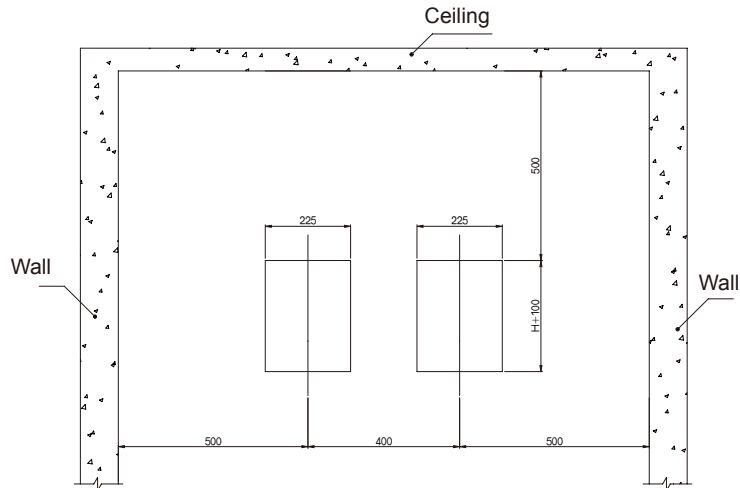


Fig 26-1

Horizontal installation-trapeze hangers Overhead Support

Holes should be first drilled in the floor so as to inlay steel expansion bolts (holes may also be drilled on the spot for flexible installation) or pre-bury steel U-channel for welding with hangers. The distance between two adjacent hangers shall not exceed 2m. Please specify any special requirements when placing your order.

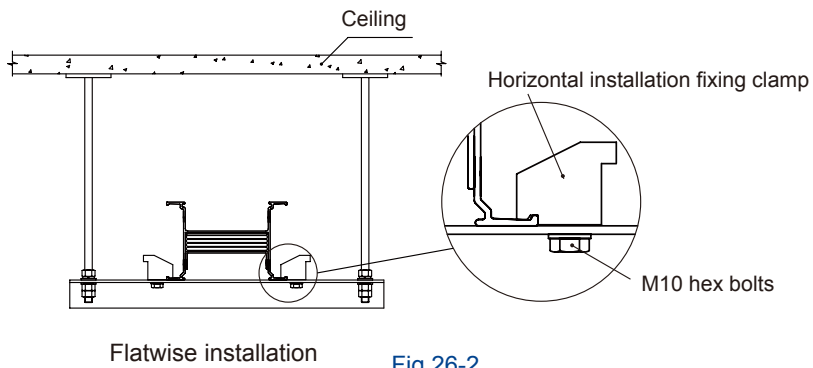


Fig 26-2

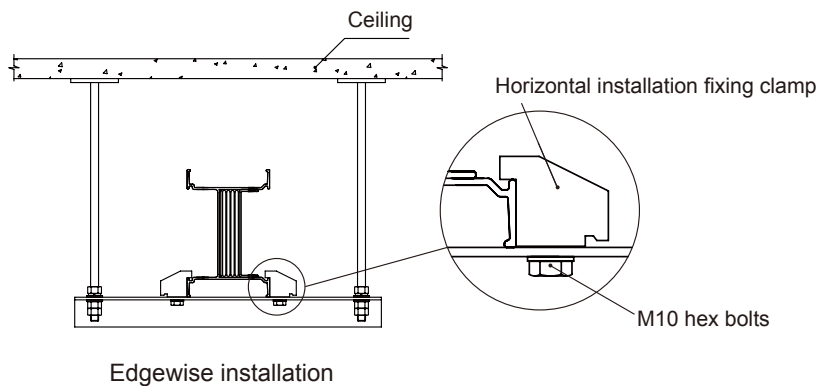


Fig 26-3

Installation

Horizontal installation-wall support

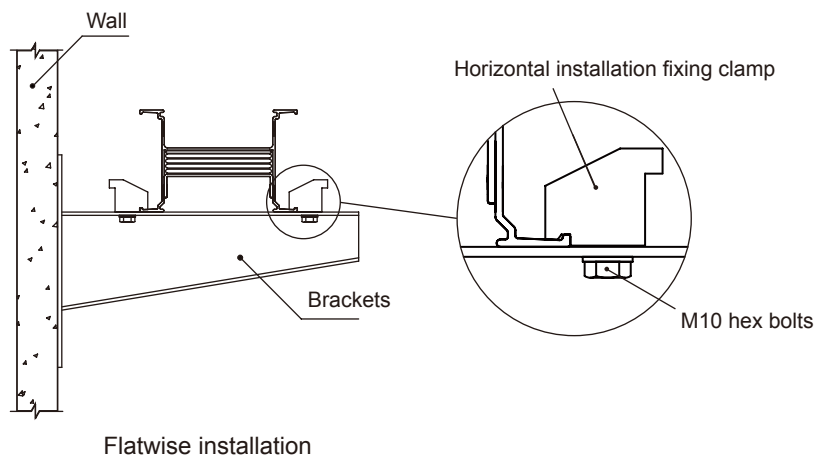


Fig 27-1

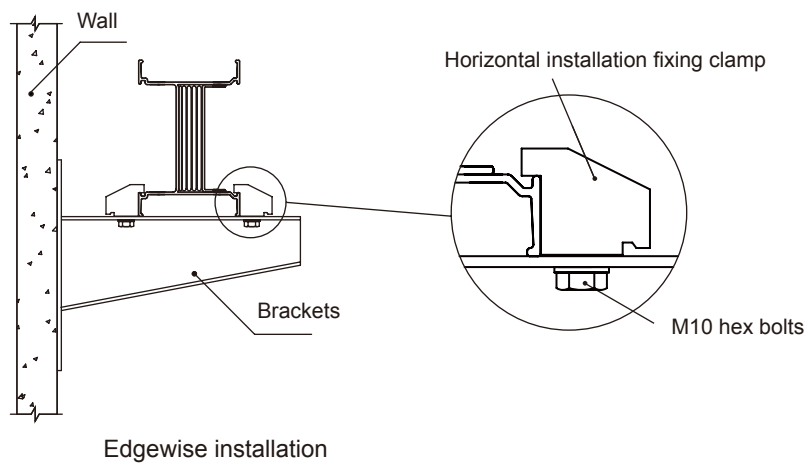


Fig 27-2

Installation

Vertical installation

When installing a vertical bus run, please refer to the figure for the dimension of the access holes. Please ensure that the spacing between every two runs of busway exceeds 350mm, especially if there are two or more vertical runs of busway installed in the same riser. Please refer to the figure below:

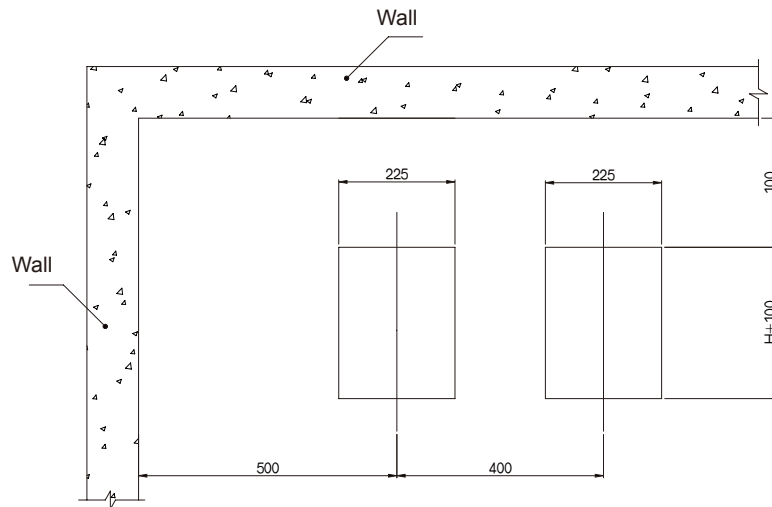
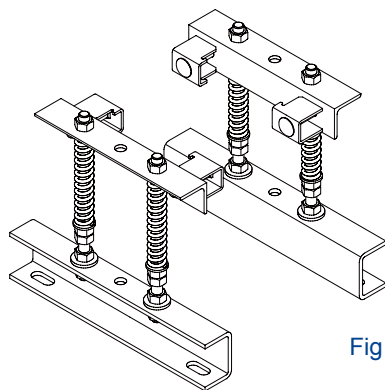


Fig 28-1

Installation for Vertical Spring Hanger



Vertical Spring Hanger

Fig 28-2

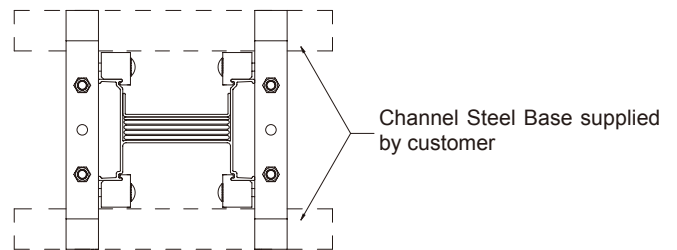


Fig 28-3

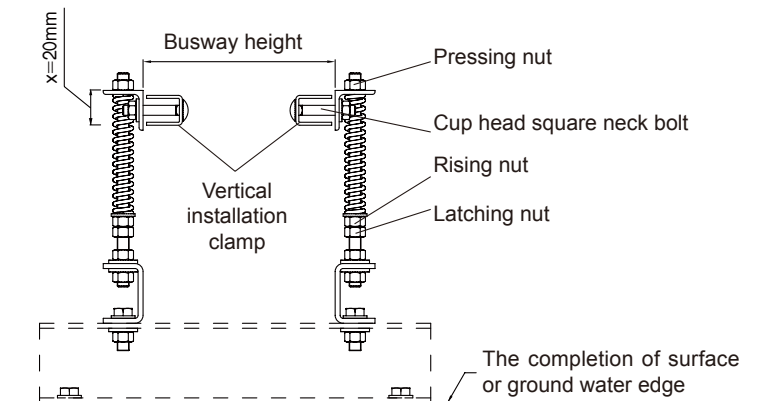
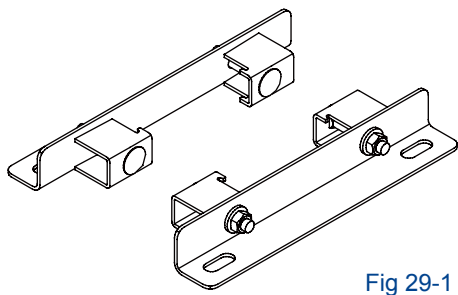


Fig 28-4

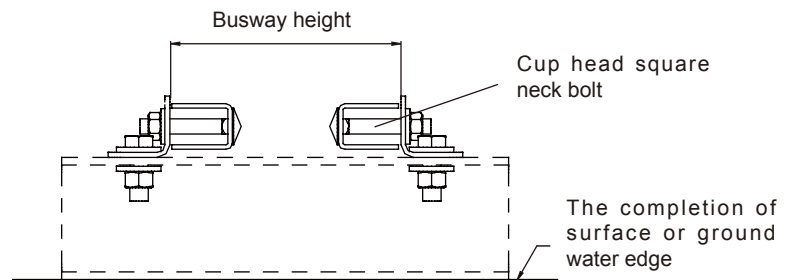
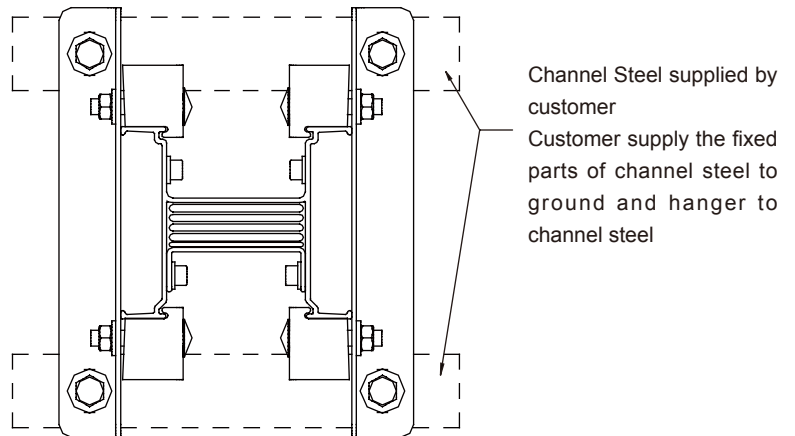
Installation Schematic Diagram

Installation

Installation for Vertical Fixed Hanger



Vertical Fixed Hanger



Application

Transformer Connection

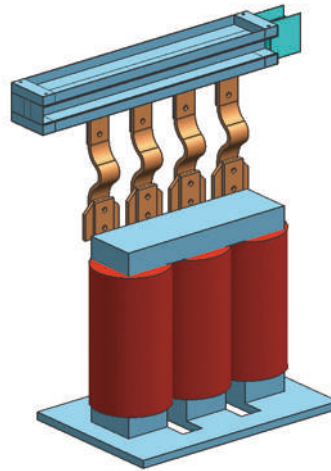


Fig 30-1

Switchgear Connection

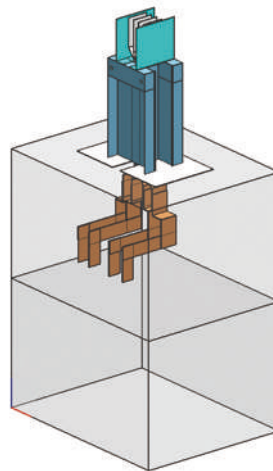


Fig 30-2

Ordering Information

WETOWN LV™ purchase guide

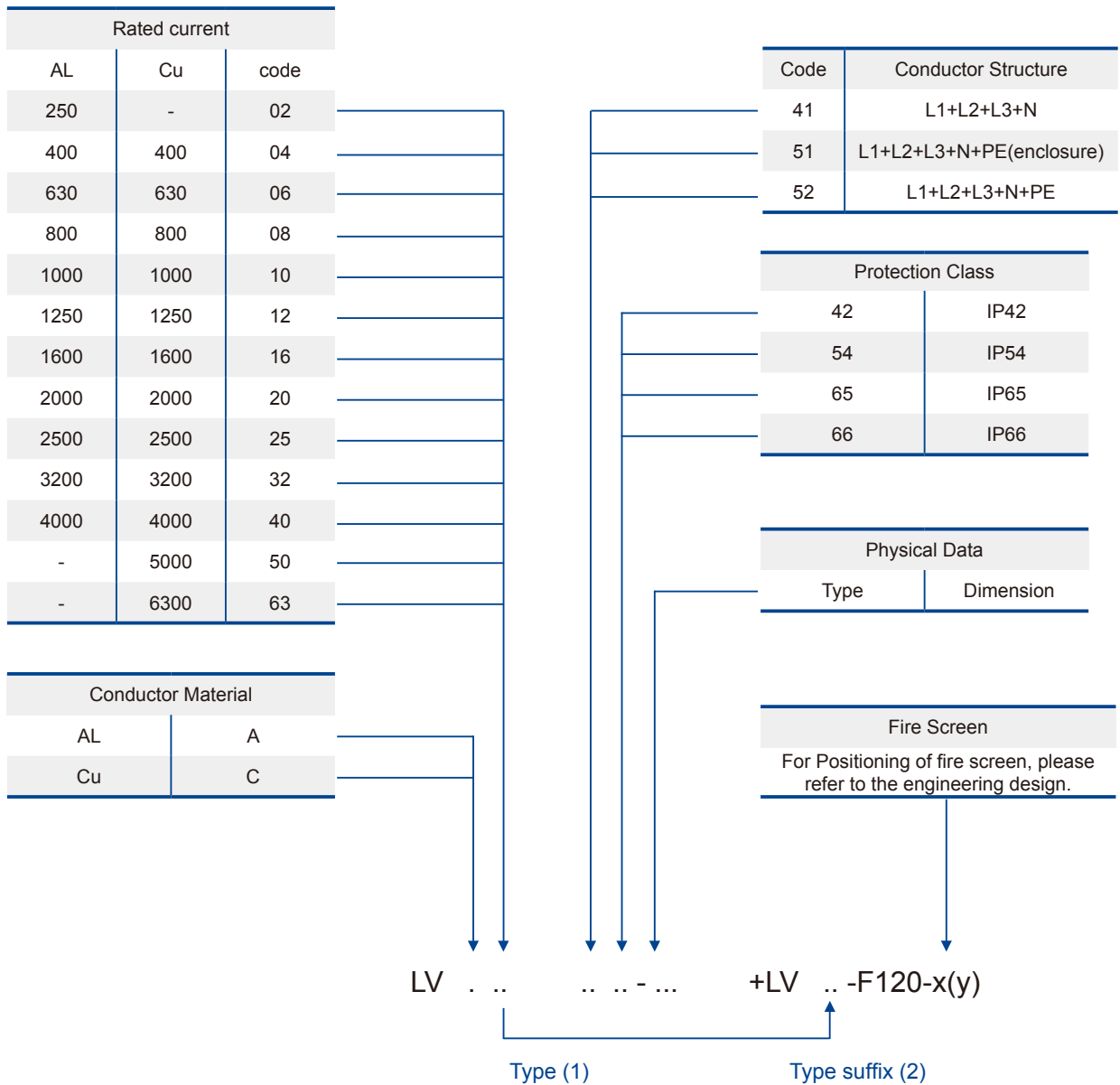
Quotation Inquiry Form

- Model, rated current, rated voltage
- Plug-in busway or in feeder busway
- Characteristics of the power supply and protection degree
- Surface treatment and color and accessories
- Name, model, specifications, quantity of components and protection degree of the plug

Table 31-1

| Items | Details | | | | | | | | | | | |
|-----------------------|--|-----------------------------------|---------------------------------------|--|--|---|--|------------------------------------|---|---|--------------------------------|--------------------------------|
| Conductor Type | <input type="checkbox"/> copper conductor | | | | | | <input type="checkbox"/> aluminium conductor | | | | | |
| Rated Capacity | <input type="checkbox"/> 250A | <input type="checkbox"/> 400A | <input type="checkbox"/> 500A | <input type="checkbox"/> 630A | <input type="checkbox"/> 800A | <input type="checkbox"/> 1000A | <input type="checkbox"/> 1250A | <input type="checkbox"/> 1350A | <input type="checkbox"/> 1600A | <input type="checkbox"/> 2000A | <input type="checkbox"/> 2500A | <input type="checkbox"/> 3200A |
| Phase and Wire | <input type="checkbox"/> 3P4W L1, L2, L3, PEN100% | | | | <input type="checkbox"/> 3P4W L1, L2, L3, N100% | | | | <input type="checkbox"/> 3P5W L1, L2, L3, N100%PE50% | | | |
| Phase Sequence | <input type="checkbox"/> option 1 | <input type="checkbox"/> option 2 | <input type="checkbox"/> option 3 | <input type="checkbox"/> option 4 | <input type="checkbox"/> option 5 | <input type="checkbox"/> option 6 | <input type="checkbox"/> option 7 | <input type="checkbox"/> option 8 | <input type="checkbox"/> others | | | |
| Frequency | <input type="checkbox"/> 50Hz | | <input type="checkbox"/> 60Hz | | | | | | | | | |
| Voltage | <input type="checkbox"/> 400V | | <input type="checkbox"/> 690V | | | | | | | | | |
| Protection Class | <input type="checkbox"/> IP40 | <input type="checkbox"/> IP42 | <input type="checkbox"/> IP54 | <input type="checkbox"/> IP65 | <input type="checkbox"/> IP66 | <input type="checkbox"/> others | | | | | | |
| Colour | <input type="checkbox"/> light grey | | <input type="checkbox"/> light yellow | | | <input type="checkbox"/> others | | | | | | |
| Product Type | <input type="checkbox"/> Plug-in straight length_____M | | | | | <input type="checkbox"/> Feeder straight length_____M | | | | | | |
| No. of Outlet | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 | <input type="checkbox"/> One side | | <input type="checkbox"/> Both side | | | | |
| Attachment | <input type="checkbox"/> L edgewise elbow (N-phase inward)_____ piece | | | | | <input type="checkbox"/> L edgewise elbow (N-phase outward)_____ piece | | | | | | |
| | <input type="checkbox"/> L edgewise elbow (N-phase upside)_____ piece | | | | | <input type="checkbox"/> L edgewise elbow (N-phase underside)_____ piece | | | | | | |
| | <input type="checkbox"/> T edgewise elbow (N-phase inward)_____ piece | | | | | <input type="checkbox"/> T edgewise elbow (N-phase outward)_____ piece | | | | | | |
| | <input type="checkbox"/> T edgewise elbow (N-phase upside)_____ piece | | | | | <input type="checkbox"/> T edgewise elbow (N-phase underside) _____ piece | | | | | | |
| | <input type="checkbox"/> terminal_____ piece | | | <input type="checkbox"/> terminal busway _____ piece | | | | | | | | |
| | <input type="checkbox"/> transposition busway_____ piece | | | | <input type="checkbox"/> expansion busway_____ piece | | | | <input type="checkbox"/> phase conversion busway_____ piece | | | |
| Plug-in box | <input type="checkbox"/> Isolating switch + fuze | | | <input type="checkbox"/> MCCB | | | <input type="checkbox"/> Rotary handle operation | | | <input type="checkbox"/> Rotating crank operation | | |
| | Rated current | ___A___ pce | | ___A___ pce | | ___A___ pce | | ___A___ pce | | ___A___ pce | | |
| | | ___A___ pce | | ___A___ pce | | ___A___ pce | | ___A___ pce | | ___A___ pce | | |
| Short Circuit Current | | | | | | | | | | | | |
| Support | <input type="checkbox"/> horizontal_____ pce | | | | | <input type="checkbox"/> vertical_____ pce | | | | | | |
| Delivery date | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | |
| Destination Address | | | | | | | | | | | | |
| Contact | | | | | | | | | | | | |
| Special Requirements | | | | | | | | | | | | |

LV Busway System Numbering

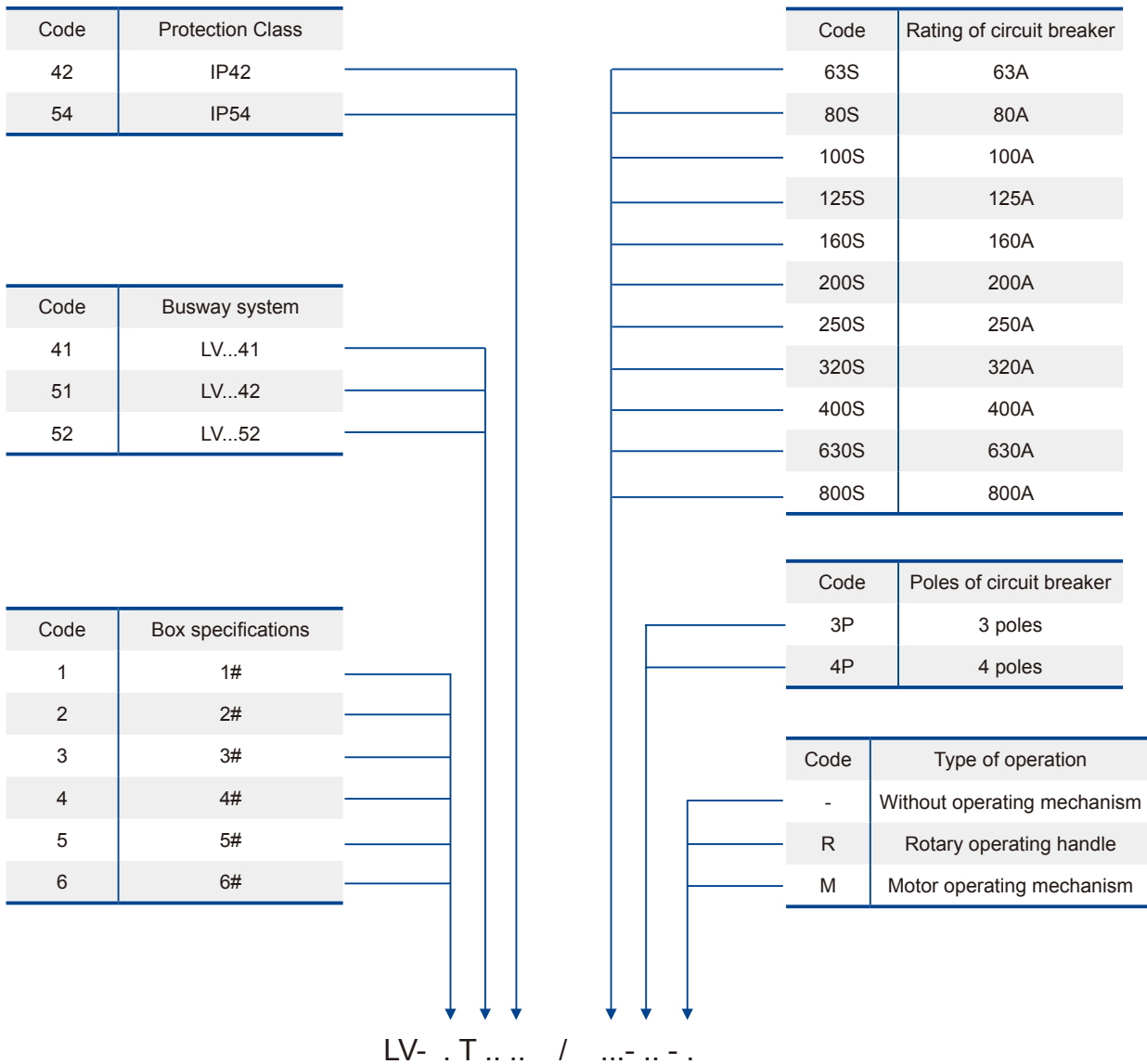


For example; LVC045265-3 means:

Straight length with LV type busway, rated current of 400A, three phase five wire (with PE), IP65 and length of 3000mm.

Model: LV, current rating 400A, 5-wire system(with a separate PE), protection rating: IP65, length=3m

LV plug-in box system numbering



For example:

LV-3T5254/200S-3P-R means the plug-in box with specification of 3#, busway system of 52, protection rating of IP54, 3P breaker protection and rotary operating handle, rated current 200A.

Catalogue serial number: WTLV2010-1

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