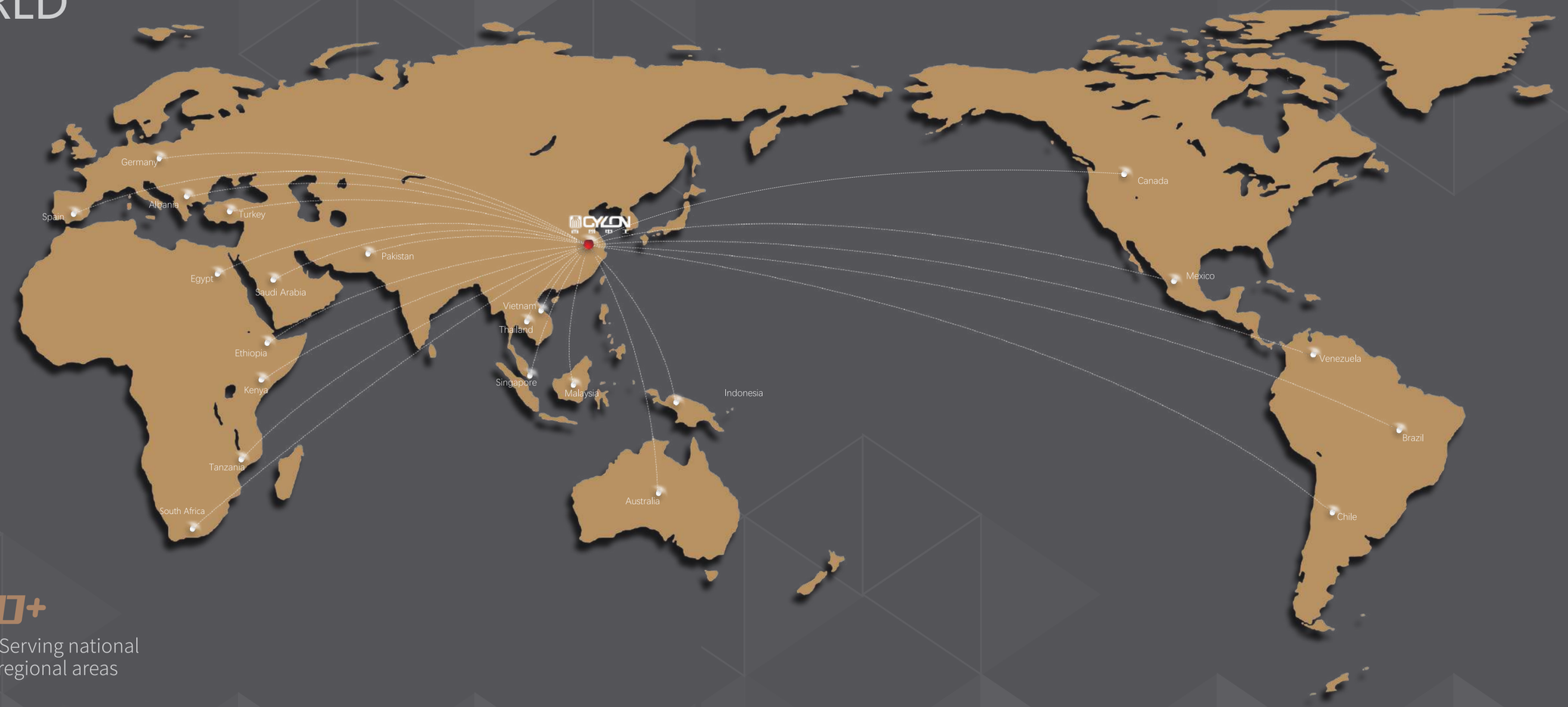
ABOUT
CYLON GROUP
关于西朗

CYLON Group was founded in 1999 and is a modern high-tech enterprise specializing in integrating electrical design, R&D, manufacturing, sales, and service under one platform. Sinceits establishment, the company has always adhered to the principles of"Integrity, Innovation,and Quality" as its founding mission and regards "Technology+ Service" as the core foundationof its business.

CYLON Group has been committed to scientific and technological innovation and management upgrades, successfully establishing a standardized management system covering quality,environment, occupational health, and safety. Additionally, it has obtained certifications such as COC (China Quality Certification Center) product safety certification and CCC (China Compulsory Certification) national mandatory product certification, forming a comprehensive standardized certification system covering the entire process.

CYLON Group has obtained numerous technical professional certifications and productionlicenses for electrical industrial products. By leveraging advanced technology, excellent quality,and comprehensive service, the company has established a strong foothold in the electricalindustry, laying a solid foundation for XiLang to become a world-class brand in the power-transmission and distribution sector.

SERVING THE WORLD



1999
5 Subsidiaries

60+
+60 Serving national and regional areas

100+
+100 Professional technical personnel

30000+
+30000 cumulative customers

CY-L Copper
Dense Busway System

High-quality conductor
excellent insulation materials

IP65+ protection level
and High performance, High strength

Product Features

Improved safety performance

The CY-L series busway utilizes high-quality conductors andinsulating materials.

with an optimized structural design,providing low line losses to significantly enhance transmis-sion efficiency and reduce costs;

The busway's superior heat dissipation performance andstable temperature rise levels ensure long-term operationastability;

Excellent insulation performance

Utilizes DuPont polyester film as the primary insulationmaterial, rated for Class B (130°C) thermal endurance;

Terminal sections reinforced with Class F (155°C) black epoxyresin for superior mechanical fixation and insulation-reinforcement;

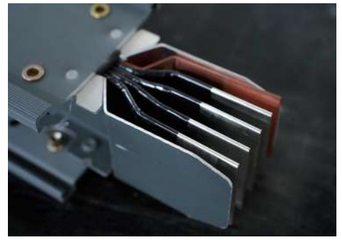
Flame-retardant performance meets UL94 standards, ensuringhalogen-free and eco-friendlyinsulation properties;

Enhanced protection capability

The grounding system employs an advanced integratedgrounding method (IGB structure) with 50% phase linecapacity, ensuring ground line integrity and continuity;

During high-capacity ground faults, the effective groundingmechanism safeguards the entire system while minimizingeddy current losses;

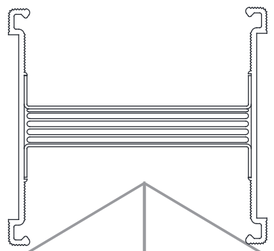
The busway housing adopts Dacromet rivets assembled withminimal spacing, delivering superior short-time withstandperformance,enhanced safety, and eliminating electric shockrisks;



"Sandwich" structure

The compact conductor arrangement with integrated heatdissipation results in lower temperature rise of the busway;

The tightly structured busway occupies less building space,



Active connector

Allows quick disassembly during maintenance and createselectrical isolation for safe servicing;

Incorporates precision alignment features to enhanceinstallation efficiency and ensure assembly accuracy

Utilizes silver/tin-plated contact surfaces with double-sidedoverlapping joints to expand effective conductor cross-section, guaranteeing ow-resistance electrical performance;

Higher transmission efficiency and lower

The CY-L series housing adopts a fully enclosed structureformed by integrated molding technology, reducing dustaccumulation inside the busway and applying electrostaticspray polyester powder;

It addresses the weak protection issue at joints offull-aluminum-profile housing busways, achieving an IP66protection rating for the entire busway with excellentcorrosion resistance.

CY-L Aluminium

Dense Busway System

High-quality conductor
excellent insulation materials

IP65+ protection level
and High performance, High strength

Product Features

Excellent insulation performance

Utilizes DuPont polyester film as the primary insulationmaterial, rated for Class B(130°C) thermal endurance;

Terminal sections reinforced with Class F (155°C) black epoxyresin for superior mechanical fixation and insulation reinforcement;

Flame-retardant performance meets UL94 standards, ensuringhalogen-free and eco-friendlyinsulation properties;

Fully sealed shell

Utilizes DuPont polyester film as the primary insulationmaterial, rated for Class B(130°C) thermal endurance;

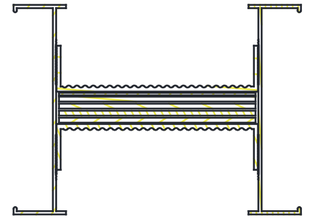
Terminal sections reinforced with Class F (155°C) black epoxyresin for superior mechanical fixation and insulation reinforcement;

Flame-retardant performance meets UL94 standards, ensuringhalogen-free and eco-friendlyinsulation properties;

"Sandwich" structure

The compact conductor arrangement with integrated heatdissipation results in lower temperature rise of the busway;

The tightly structured busway occupies less building space,



Interface and plug-in box

The tap-off interfaces can be arranged in single-sided ordouble-sided configurations, with their quantity and spacingflexibly adjustable on-site;

The independently developed plug-in box features excellentoverload protection, short-circuit protection, and integratedground fault protection;

Universal parts and accessories

The CY-L series aluminum busway features an optimizeddesign, enabling interchangeability of accessories and components across busway systems with the same currentrating;

Plug-in boxes and tap-off interfaces are mutuallycompatible, simplifying installation and maintenance effortswhile effectively reducing customer costs.

Active connector

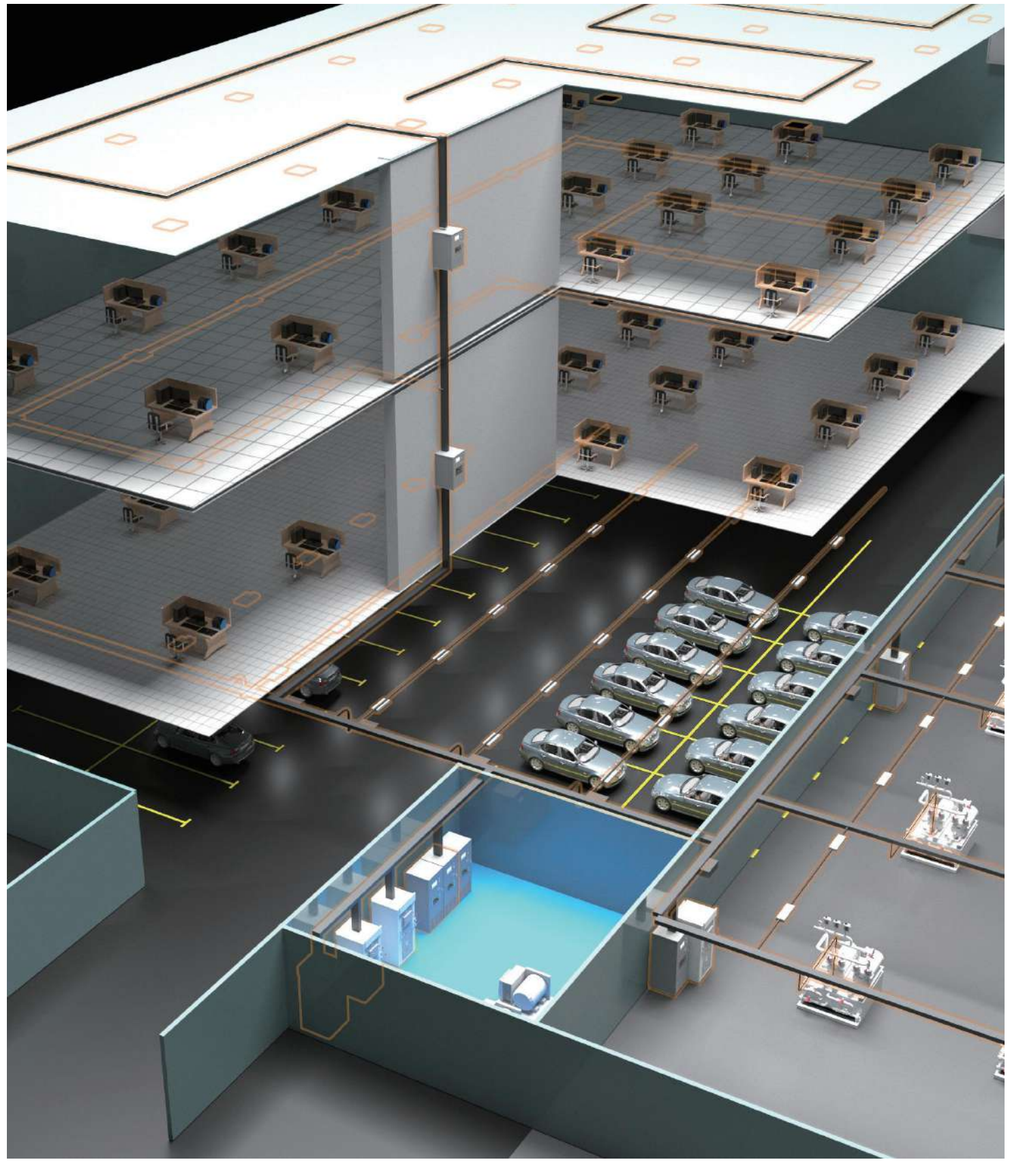
Removable design facilitates disassembly or electricalisolation during maintenance;

Positioning limiter design enhances installation efficiencyand quality;

Silver/tin-plated contact surfaces with double-sidedoverlapping at connection points increase conductorcross-section,ensuring excellent conductivity;

APPLICATION SCENARIO

应用场景



Connecting electrical distribution equipment

Connecting transformers to distribution equipment/panel

Electrical distribution in large factories

For distribution panel connections to main

Horizontal wiring distribution

Distributing power from distribution equipment to multi-ple points within a factor

Upward electrical distribution

Distributing power from distribution equipment to various floors of a buildin

Underground parking garages

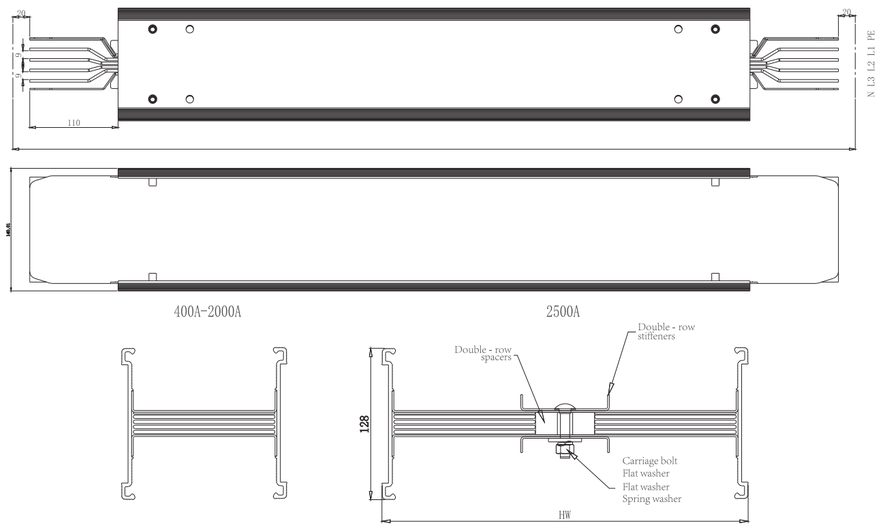
Connecting distribution rooms to the main

Transmission of transformers

Connecting outdoor pylons to the main distribution room and transformer supply lines

CY-L Sandwich Busway System

Copper Busway System



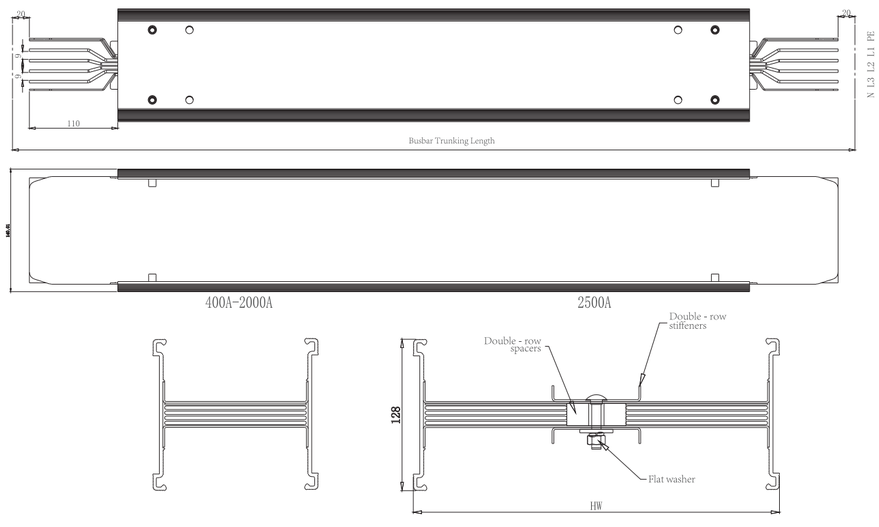
Dimension:

Current Ratin A	Model	CY - L (Copper)	
	Outer Dimension	Width (mm)	Height (mm)
250-400		128	63
500		128	73
630		128	83
800		128	98
1000		128	118
1250		128	143
1600		128	173
2000		128	233
2500		128	288
3150		128	368
4000		128	448
5000		128	468
6300		128	548

Copper Bus Duct Product Technical Parameters Table

Standard		IEC61439.1-1999、IEC61439.2-2000、GB/T7251.1-2005、GB/T7251.1-2006、GB/T7251.6-2017											
Conductor Material		Cu≥99.95%											
Enclosure		6063-T5 Aluminum Alloy											
Unit Length		0.5-6											
Protection Rating		IP54、IP65、IP66											
Rated Insulation Voltage	V	AC690/1000											
Rated Working Voltage	V	AC400/1000											
Rated Frequency	Hz	50-60											
Rated Current	A	400	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300
Resistance (R20)	X10⁻³Ω/m	99.9	89.1	76.8	65.3	55.1	49.9	44.2	35.6	25.4	15	9.5	7.2
Reactance (X20)	X10⁻³Ω/m	59.3	53.4	46.9	40.6	33.2	26.8	21.1	13.5	5.2	4.5	4.2	4.1
Impedance	X10⁻³Ω/m	79.8	72.4	66.1	62.3	59.1	44.5	36.5	28.4	23.1	15	12.7	10.3
Voltage Drop (cosφ=0.9, t=1s)	V/m	0.146	0.145	0.14	0.139	0.136	0.128	0.126	0.121	0.118	0.116	0.115	0.112
Rated Short - Time Withstand Current	KA	30					80				120		
Rated Peak Withstand Current	KA	63					176				264		
Creepage Distance	mm	14					8				10		
Tracking Distance	mm	20					10				12.5		
Insulation Resistance	MΩ	≥20											
Grounding Resistance	Ω	≤0.01											
Dielectric Performance		50Hz, 2.5kV/1min, no puncture or											
Temperature Rise	K	≤55 ≤70											
Number of Pluggable Interfaces		less than 0.6m											
Maximum Fixed Interval	m	2											
Installation Method		Vertical or Horizontal											

Aluminium Busway System



Dimension:

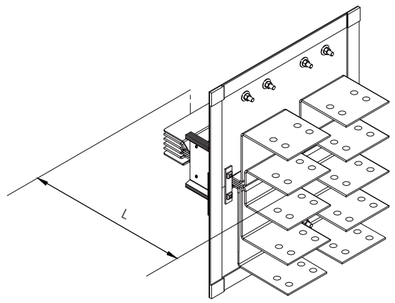
Current Ratin A	Model	CY - L (Aluminium)	
	Outer Dimension	Width (mm)	Height (mm)
250-400		128	60
500		128	70
630		128	80
800		128	105
1000		128	130
1250		128	160
1600		128	200
2000		128	240
2500		128	300
3150		128	390
4000		128	460

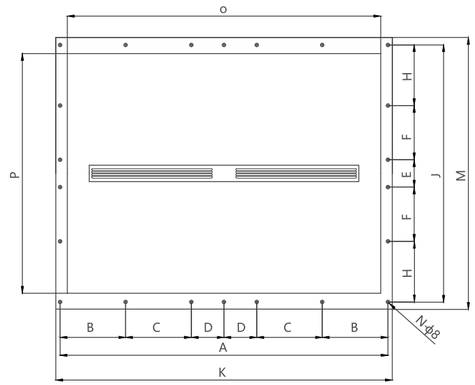
Aluminium Bus Duct Product Technical Parameters

Standard		IEC60439.1-1999、IEC60439.2-2000、GB7251.1-2005、GB7251.2-2006、GB7251.6-2015									
Conductor Material		Re+Mn+Mg+Cr									
Enclosure		6063-T5 Aluminum Magnesium Alloy									
Unit Length		1.6, 3, 6 (any selection between 0.5-6 meters)									
Protection Rating		IP54、IP65									
Rated Insulation Voltage	V	1000									
Rated Working Voltage	V	AC400/1000									
Rated Frequency	Hz	50-60									
Rated Current	A	400	500	630	800	1000	1250	1600	2000	2500	3200	4000
Resistance	X10⁻³Ω/m	104.9	104.9	93.6	80.6	68.6	57.9	52.4	46.4	37.4	26.7	15.8
Reactance (R20)	X10⁻³Ω/m	62.3	62.3	56.1	49.2	42.6	34.9	28.1	22.2	14.2	5.5	4.7
Impedance (Z20)	X10⁻³Ω/m	83.8	83.8	76	69.4	65.4	62.1	46.7	38.3	29.8	24.3	15.8
Voltage Drop (when cos=0.9)	V/m	0.153	0.153	0.152	0.147	0.146	0.143	0.134	0.132	0.127	0.124	0.122
Rated Short - Time Withstand Current (t=1s)	KA	30							65			
Rated Peak Withstand Current	KA	63							143			
Electrical Clearance	mm	≥8										
Creepage Distance	mm	≥12.5										
Insulation Resistance	MΩ	≥20										
Grounding Resistance	Ω	≤0.01										
		50Hz, 2.5kV/1min no breakdown, no flashover										
Temperature Rise	K	≤55 ≤70										
Number of Plug - In Interfaces		Minimum 0.8 meters per interface										
Maximum Fixed Interval	m	2										
Mechanical Load Capacity	kg	15			25			35			50	
Installation Method		Vertical or Horizontal										

Main Unit

Standard Flange





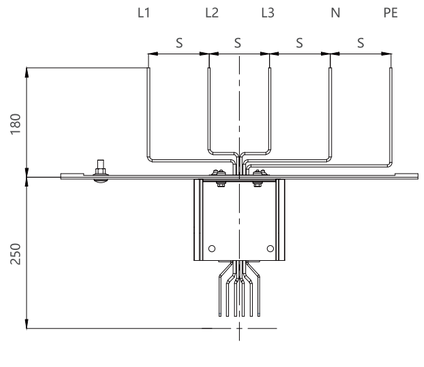
Flange Cutting Line and Drilling Hole Sample Plate

额定电流（A）Rated Current	K (mm)	O (mm)	M (mm)	P (mm)
400A	214	164	590	520
630A	214	164		
800A	214	164		
1000A	230	180		
1250A	259	209		
1600A	291	241		
2000A	333	283		
2500A	385	335		
3150A	493	443		
4000A	581	531		
5000A	689	639		

Feeder Line Flange Hole Position and Spacing

额定电流(A) Rated Current	孔数 N Number of holes	孔位置和间距 A mm Hole position and spacing	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	M (mm)	O (mm)	P (mm)
400A	14	195	98	---	---	60	117.5	132	559	214	590	164	520
630A	14	195	98	---	---					214		164	
800A	14	195	98	---	---					214		164	
1000A	14	211	106	---	---					230		180	
1250A	14	240	120	---	---					259		209	
1600A	14	272	136	---	---					291		241	
2000A	16	314	103	108	---					333		283	
2500A	16	366	116.5	133	---					385		335	
3150A	18	474	118.5	118.5	---					493		443	
4000A	18	562	140.5	140.5	---					581		531	
5000A	20	670	134.0	134.0	134.0					689		639	

Fittings Drawing Outline



额定电流（A）Rated Current	S (mm)
400A	100
630A	
800A	
1000A	
1250A	
1600A	
2000A	
2500A	
3150A	
4000A	
5000A	

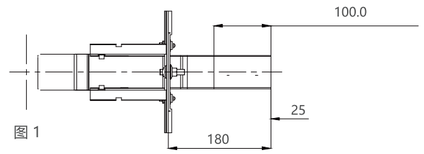


图 1

额定电流（A）	A (mm)	图 Picture
400A		1
630A		1
800A		1
1000A	40	2
1250A	50	2
1600A	70	2
2000A	50	3
2500A	70	3
3150A	70	4
4000A	50	5
5000A	70	5

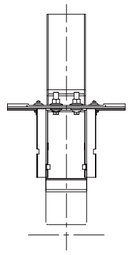


图 2

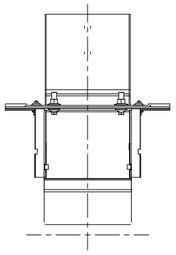


图 3

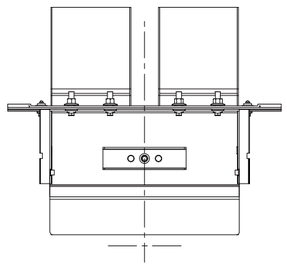


图 4

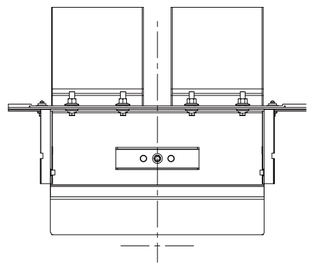
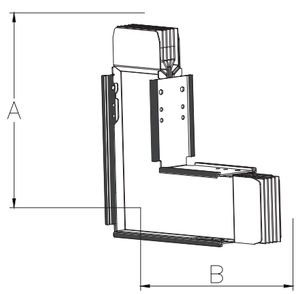


图 5

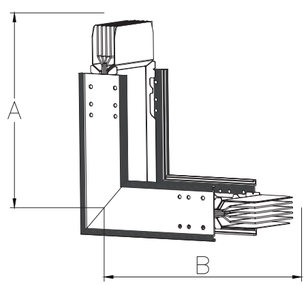
Rotating Elements

Standard elbow

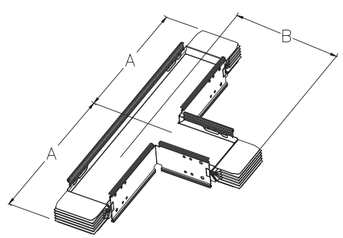
Horizontal Segment



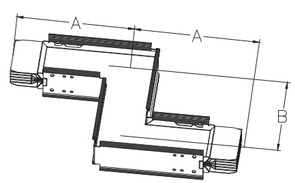
Vertical Bend



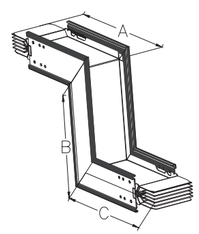
T- shaped bend segment



Z- shaped bend segment



Z- shaped horizontal bend segment



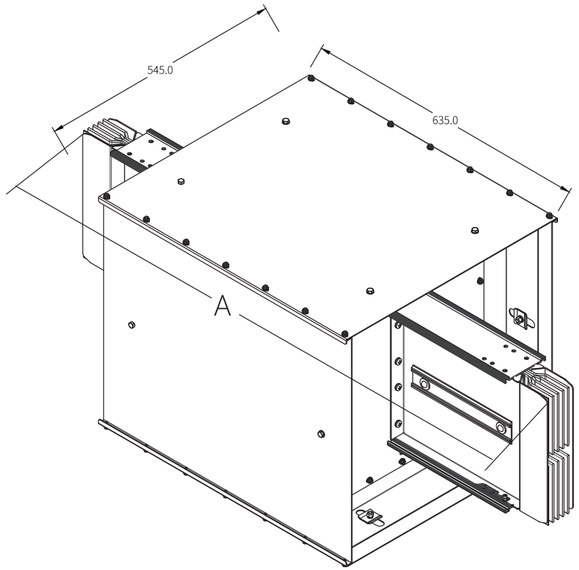
Rated Current (A)			
	A (mm)	B (mm)	C (mm)
400A	500	500	500
630A	500	500	500
800A	500	500	500
1000A	500	500	500
1250A	500	500	500
1600A	500	500	500
2000A	500	500	500
2500A	500	500	500
3150A	500	500	500
4000A	500	500	500
5000A	500	500	500

Note: For elbows over 600mm, please place a special order, and the longest one can be 1000mm.

Rated Current (A)			
	A (mm)	B (mm)	C (mm)
400A	500	500	500
630A	500	500	500
800A	500	500	500
1000A	500	500	500
1250A	500	500	500
1600A	500	500	500
2000A	500	500	500
2500A	500	500	500
3150A	500	500	500
4000A	500	500	500
5000A	500	500	500

Note: For elbows over 600mm, please place a special order, and the longest one can be 1000mm.

Expansion joint



Rated Current (A)	A mm
400	1500
500	1500
630	1500
800	1500
1000	1500
1250	1500
1600	1500
2000	1500
2500	1500
3150	1500
4000	1500
5000	1500
6300	1500

NUMBERING RULES OF COPPER BUS

CY-L | C | A | L | IP54

Series	
CY-L	CY-L Series copper busbar trunking

System	
C	3L + N + PE( )
A	3L+N+PE(Aluminum)

Current Rating	
04	400A
06	630A
08	800A
10	1000A
12	1250A
16	1600A
20	2000A
25	2500A
32	3150A
40	4000A
50	5000A

Copper

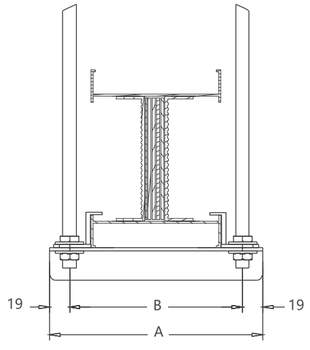
Copper	
L	Straight Body
FE	Flange
LR	Elbow
T	Tee
EJ	Expansion Joint
R	Variable Volume Joint
PT	Commutator

IP54	IP54
IP55	IP55
IP65	IP65

Note: Add "L" to the suffix of models 1600A, 2000A, 2500A, and 5000A.

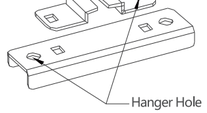
Rotating Elements

Horizontal Rails / Vertical Rails



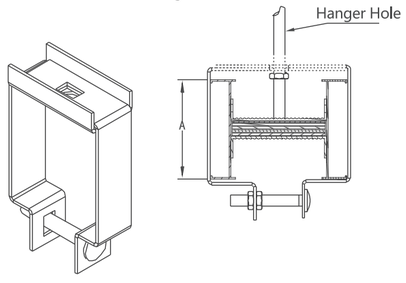
CYLON800HR

Current Ratin A	A (mm)	B (mm)	Catalog Number
400	270	230	CYLON800HR
630	270	230	CYLON800HR
800	270	230	CYLON800HR
1000	270	230	CYLON800HR
1250	270	230	CYLON800HR
1600	270	230	CYLON800HR
2000	270	230	CYLON800HR
2500	270	230	CYLON800HR
3150	270	230	CYLON800HR
4000	270	230	CYLON800HR
5000	270	230	CYLON800HR



Current Ratin A	A (mm)	Catalog Number
400	99	CYLON800VH
630	99	CYLON800VH
800	99	CYLON800VH
1000	115	CYLON801VH
1250	144	CYLON802VH
1600	176	CYLON803VH
2000	218	CYLON804VH
2500	270	CYLON805VH
3150	378	CYLON806VH
4000	466	CYLON807VH
5000	574	CYLON808VH

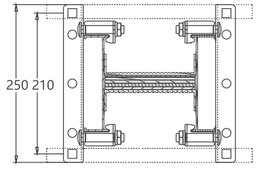
Installation Diagram

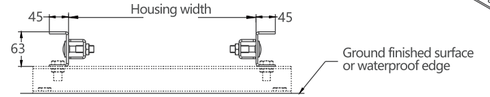


CYLON - VH

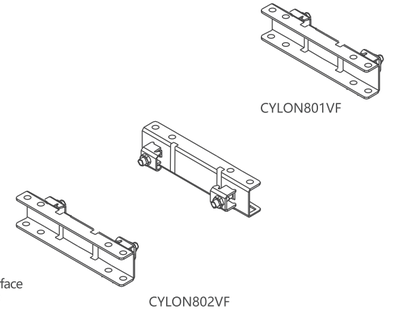
Vertical installation of bracket

Vertical Installation Using Brackets / Fixed Vertical Supports





Installation diagram



CYLON801VF

CYLON802VF

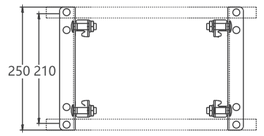
Current Ratin (A)	Catalog Number
400	CYLON801VF
630	CYLON801VF
800	CYLON801VF
1000	CYLON801VF
1250	CYLON801VF
1600	CYLON801VF
2000	CYLON802VF
2500	CYLON802VF
3150	CYLON802VF
4000	CYLON802VF
5000	CYLON802VF

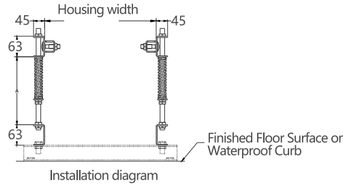
1、When using a vertical fixed bracket, the height of the busbar connection head above the ground should not be less than 300mm to ensure the fixation of the bracket and the busbar housing.

2、When the busbar is installed vertically, the maximum spacing between fixed brackets is 5m.

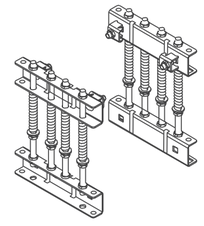
Current Ratin (A)	Catalog Number
400	CYLON801VS
630	CYLON801VS
800	CYLON801VS
1000	CYLON801VS
1250	CYLON801VS
1600	CYLON802VS
2000	CYLON802VS
2500	CYLON802VS
3150	CYLON802VS
4000	CYLON802VS
5000	CYLON802VS

Note: When using a spring bracket, the height of the busbar connection head above the ground should not be less than 540mm to ensure the fixation of the bracket and the busbar housing.

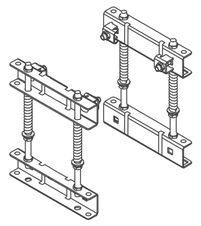




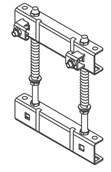
Installation diagram



CLYON802VS



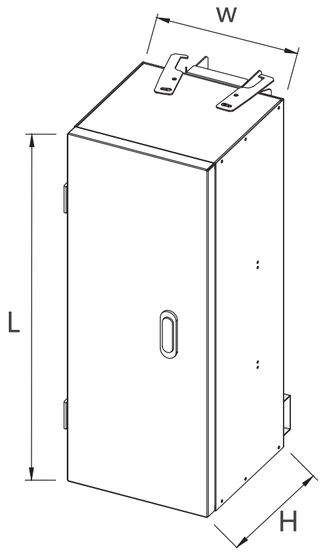
CLYON801VS

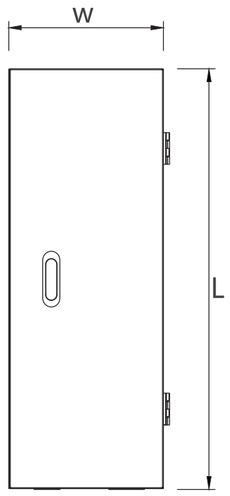


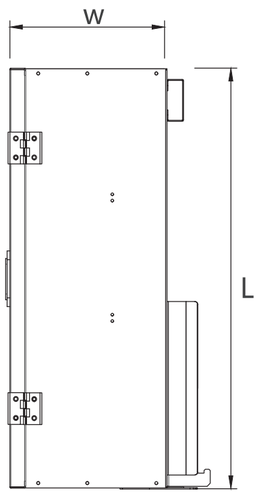
CLYON801VS

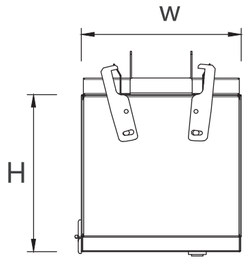
Jack box

Dimension Specifications









(A)	L(mm)	W (mm)	H (mm)
0-250	600	300	200
250-630	600	300	250
Live operation 0-250	600	300	300
Live operation 250-630	600	300	300

Space Required for Installation