

# **GPX311-B6 Type Optic Distribution Cabinet**

## **Technical Specification**

### **V1.0**

Version	Upgrading Reason	Date	Maker	
V1.0		10 <sup>th</sup> .12.2018	Aiming Tang	



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## 1 Description

GPX311-B series Optic Distribution Cabinet is the product with high-density, large-volume and full-front operation. It is specially suitable for optical cable access net and exchange branch point. It is fit for FC, SC, LC and ST adapters, ribbon, bundle and non-ribbon optical cable.

## 2 Applicable Environment

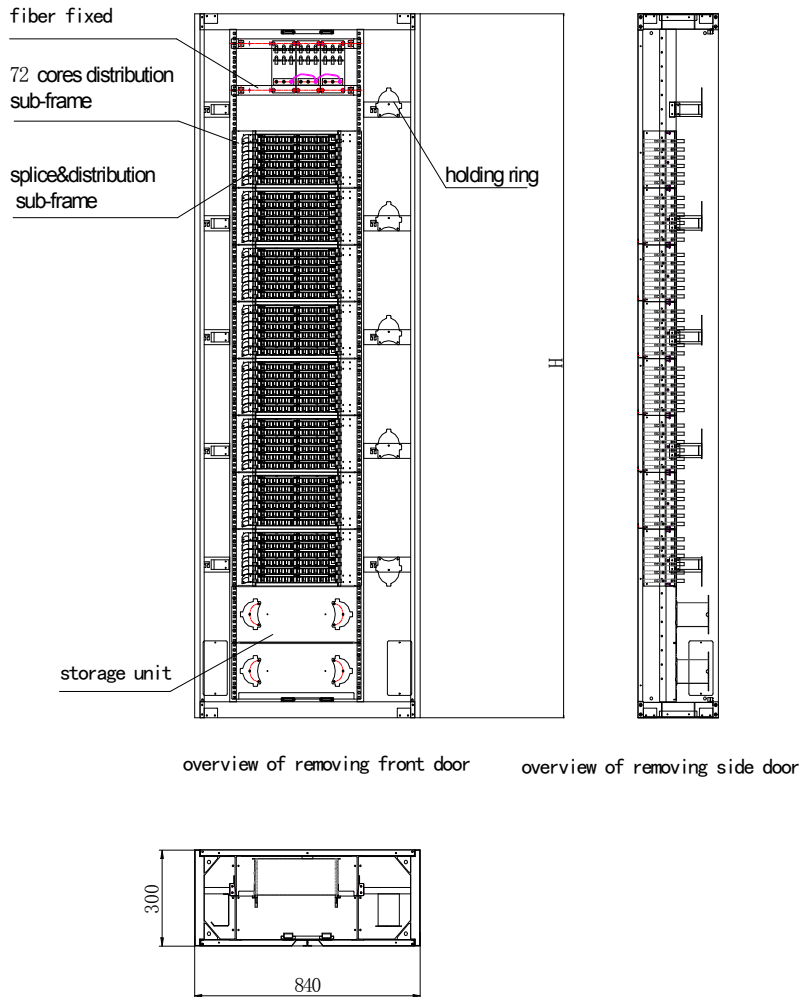
- Working temperature: -40℃ ~+60℃
- Environment humidity: no more than 95% (at temperature of +40℃)
- Atmospheric pressure: 70~106Kpa

## 3 Feature

- The frame is bent with quality cold-rolled steel plate for high mechanical strength and in electrostatic epoxy plastic spray mold for beautiful appearance.
- high density, compact structure, 19" standard installation.
- Adopt up& bottom cable entering, enough space for fiber storage.
- Equipped with GPX311-YT5-12 type 12core splice distribution module, apply for FC, SC, LC, ST adapters (ST adapter must be with flange ).
- suits both ribbon optical cable and non-ribbon optical cable operation.
- Reliable optical cable leading-in, fixation, skinning protection and earthing device.
- Excellent design for fiber guiding, make sure fiber or cable curvature radius are larger than 37.5mm at any point
- Appropriate labels notice for Splice and distribution record

## 4 Structure & Dimension

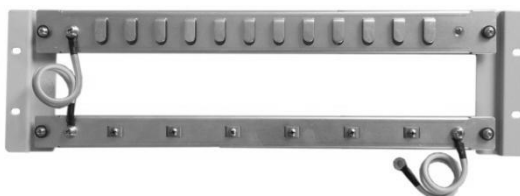
Figure 4-1 GPX311-B6 type structure (Dimension: H\*W\*D 2000/2200\*840\*300±3mm)



## 5 Functional Parts

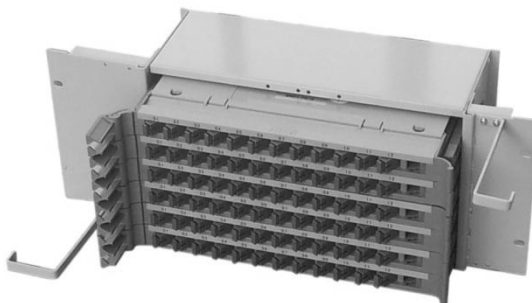
### 5.1 Cable lead-in unit

ZBK-36 Cable lead-in unit is used for the lead-in fiber cable fixing and metal parts grounding. Please refer the structure as below:



### 5.2 Optical fiber distribution sub-frame

GPX311-ZJB-72 Optical fiber distribution sub-frame is the standard 19U installation structure. It can configure 6pcs GPX311-YT5-12, the 12-core splice & distribution tray. Picture for GPX311-ZJB-72 as below:



### 5.3 GPX311-YT5-12 12-core Splice & Distribution Tray

GPX311-YT5-12, the 12-core splice & distribution tray Picture as below:



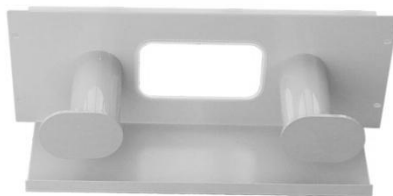
## 5.4 Storage Unit 1

GPX311-FJ7B-1 storage unit is for storing spare fiber patch cord, Picture as below:



## 5.5 Storage Unit 2

GPX311-FJ7B-2 storage unit is for storing spare fiber patch cord, which would be installed in the bottom of the cabinet. Picture as below:



# 6 Accessories

## 6.1 Bare fiber protection sleeve

Bare fiber protection sleeve is used to protect the bare fiber after stripping. The material is PE, the inner diameter is  $\phi 3.8$ , and the wall thickness is about 0.6mm.



## 6.2 Splice protection sleeve

It is used to protect the connection point of the fiber to improve the mechanical strength.



Material and structure as below:

Components	Dimension	Material
Reinforcement	Outer diameter: 1.2mm; Length: 55.5mm	Stainless Steel
Inner tube	Inner diameter: 1.2mm, Length: 59mm	EVA resin
Outer tube	Outer diameter: 1.3mm(ID), length: 59mm	Polyethylene heat shrinkable tube

## 6.3 Throat hoop

Throat hoop is used for fixing the lead-in cable, and support the cable-fixing panel to make the armored cable grounding, Picture as below:



## 7 Optical Performance

- Insulation resistance between the frame high-voltage protection earthing device and the frame:  $2 \times 10^4 \text{M}\Omega/500\text{V}(\text{DC})$
- Withstand voltage between the frame high-voltage protection earthing device and the frame  $\geq 3000\text{V}(\text{DC})/1\text{min}$ , no spark-through, no flashover.
- connector attenuation (insert, exchange, repeat)  $\leq 0.3\text{dB}$ ;
- echo return loss: APC type  $\geq 60\text{dB}$ , UPC type  $\geq 50\text{dB}$ , PC type  $\geq 45\text{dB}$ ;
- other features comply with YD/T1437-2006 ODF standard.



## 8 Mechanical Performance

- Connector plug in durable life > 1000times

## 9 Material

- The frame is bent with quality cold-rolled steel plate for high mechanical strength and in electrostatic epoxy plastic spray mold;
- The insulation of plastic parts comply with the requirements of experiment A GB5169.7

## 10 Package

- adopt carton or wooden case package, suitable for all kinds of transportation
- Storage temperature at  $-30^{\circ}\text{C} \sim +55^{\circ}\text{C}$ , relevant humidity  $\leq 90\%$  ( $+30^{\circ}\text{C}$ );
- Storage notices: Air acidic, alkaline or other harmful gas should comply with the requirements of environment protection.

## 11 Maintenance

- Warranty period of our products is 12month, it is free to maintenance in the period of warranty (Except the fault or damage by the Human and irresistible Natural Factors).
- Customers can consult the technical problems by service phone. The service phone is 0755-28801929.
- If some damages or faults are caused by human and resistible natural factors in warranty period, we will provide a pay-needed maintenance service.

## 12 Order Guide

Figure 12-1 GPX311-B6 optic distribution cabinet parameter

Model	dimension (HXWXD)	Materials and capacity	Referent frame weight (kg)
GPX311-B6(26)	2600x840x300	High quality steel, 19" install cabinet, splice capacity 720 cores	216
GPX311-B6(22)	2200x840x300	High quality steel, 19" install cabinet, splice capacity 576 cores	196
GPX311-B6(20)	2000x840x300	High quality steel, 19" install cabinet, splice capacity 432 cores	178

Figure 12-2 GPX311-B6 optic distribution cabinet configuration (eg. 432 cores)

No.	Name	Model	specification	Unit	QTY	Remark	Install space
1.1	Cabinet	GPX311-B6(26)	2600*840*300	Pc	1	Maximum capacity 720res	55U
1.2	cabinet	GPX311-B6(22)	2200*840*300	pc	1	Maximum capacity 576es	47U
1.3	cabinet	GPX311-B6(20)	2000*840*300	pc	1	Maximum capacity 432res	42U
2	72 cores splice & distribution subframe	GPX311-ZJB-72		set	6	1 set for every 72 cores	4U
3	Fiber storage unit	GPX311-B4(20)-4		pc	1		4U
4	Fiber storage unit	GPX311-B4(20)-5		pc	1	Fixed	4U
5	Fiber lead-in &fix	GPX311-GP19		set	1	1 set for	5U

No.	Name	Model	specification	Unit	QTY	Remark	Install space
	parts					each cabinet	
6	Splice & distribution integrated Tray	GPX311-YT5-12		set	36	cores/12	
7	12cores ribbon pigtail	FC/PC-2M-φ0.9-SM-12	2m	pcs	36	cores/12	
8	Adapter	FC		Pcs	432	Cores	
9	Splice protection sleeve	GPX311-FJ8		Pcs	432	Cores	
10	Bare fiber protection sleeve	GPX311-FJ9Y		M	72	cores/6	
11	Expansion screw package		M10*60	set	4	fixed	
12	Wiring bundle		L=250mm	Pcs	50	Accessory, as needed	
13	Throat hoop		Φ16-Φ25	Pcs	18	Accessory, as needed	
14	Electric tape			Pc	1	Accessory, as needed	

Remark: The configuration GPX311-B6(22) take maximum capacity 432cores as example. The difference between GPX311-B6 (22) and GPX311-B6 (26) are height and capacity. The dimension for accessories is the same. Regarding to quantity of accessories, please see remark in the configuration table.