

GF378-ODB-POPMV-2A Series Fiber Distribution Box Technical Specification

V1.0

Version	Upgrading Reason	Date	Maker	
V1.0	1 st . version	27 th . 06.2018	Qi Wang	



Catalogue

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1 Description

SINDi's GF378-ODB-POPMV-2A series optical fiber distribution box (ODB) is applicable to the connection of joint point between armored cable and indoor drop cable in optical fiber access network. It has 3 installation ways for indoor and outdoor: grounding mounting, wall mounting and pole-mounting. GF-KSW-24(SY) could be used as 24ports optical fiber distribution box by connecting the armored cable and drop cable with bunchy pigtails; or optical splitting distribution box by connecting the armored cable and drop cable with PLC splitter.

2 Applicable Environment

working temperature: -40 °C ~ +75 °C

• ambient humidity: ≤95% (+40°C)

atmospheric pressure: 70kPa ~ 106kPa

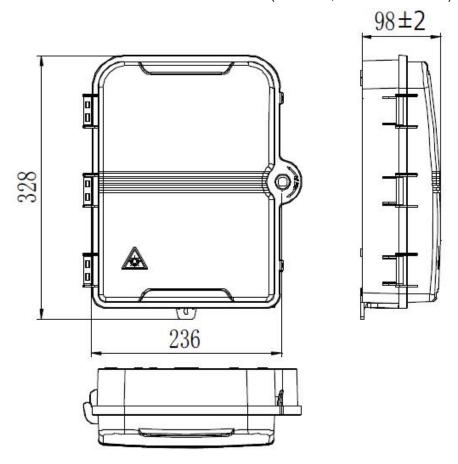
3 Feature

- Excellent plastic material, good leak-proof and weather-proof performance, applicable to indoor and outdoor with grounding mounting, wall mounting and pole-mounting installation, protective grade is IP55.
- Special fixed point for drop cable to ensure the pull force.
- Reliable cable introduction, fixation, stripping protection and grounding devices.
- Max. configure36-core splice protection sleeves
- Turning plate design, compact and room saving, to ensure enough bending radius, support redundant fiber and reasonable fiber distribution.
- Max. Install 24pcs SC adapter.
- Available to install cassette type PLC splitter 1x4, 1x8, 1x16
- Available to install box type PLC splitter 1x8 2pcs
- Available to install mini type PLC splitter 1x8 3pcs, mini type PLC splitter 1x16 1pc



4 Structure & Dimension

1. GF378-ODB-POPMV-2A Overall structure (Unit: mm, Tolerance: ±3mm)

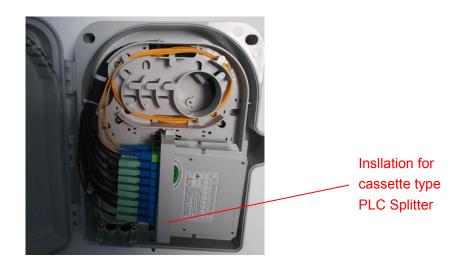


P 1 GF378-ODB-POPMV-2A ODB Dimension

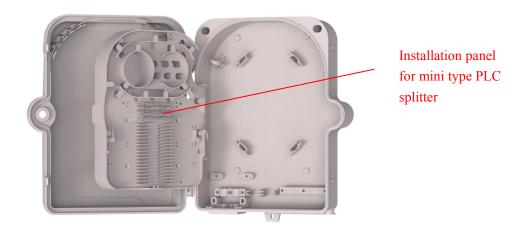


P 2 GF378-ODB-POPMV-2A ODB (for 24pcs SC adapter)

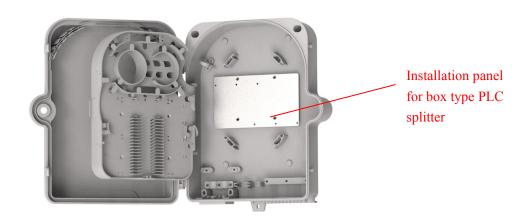




P 2 GF378-ODB-POPMV-2A ODB (for 2pcs cassette PLC Splitter 1x8)



P 3 GF378-ODB-POPMV-2A ODB (for mini PLC Splitter 1x8 3pcs or 1x16 1pc)



P 4 GF378-ODB-POPMV-2A ODB (for 2pcs box PLC Splitter 1x8)







Grounding cable would be configured if customer requires.



Second-splicing entrance





P 4 GF378-ODB-POPMV-2A ODB (black)



P 5 GF378-ODB-POPMV-2A ODB (Grey)



5 Optical Performance

- Nominal working wavelength: 850nm, 1310nm, 1550nm;
- IL: ≤0.2dB;
- RL: SC/PC≥50dB SC/UPC≥50dB SC/APC≥60dB;
- Life: ΔIL<0.1 dB after 1000times plug; outside end vertical pressure>100N (door in opening status)
- High voltage protective ground and case is insulated, insulation resistance>
 20000MΩ/500V(DC);
- High voltage protection between box and box>3000V(DC)/1min. No breakdown, no arcing

6 Mechanical Performance

- Each surface can stand vertical pressure > 500N;
- Connector plug in durable life>1000times;

7 Material

Item		Parts	Material	Surface	Remark
		Box Body	Excellent engineer	,	As customer's
'	ı		plastic	/	requirement
	2	Plastic parts inside	Excellent engineer	,	As customer's
2	the box	plastic	1	requirement	

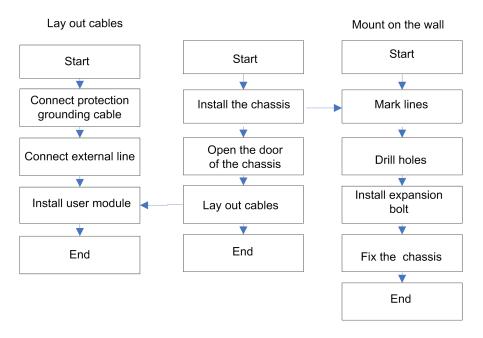
8 Package

- Carton Packing for various transporting.
- Storage temperature: -25 °C ~+40 °C, relative humidity≤90% (+40 °C);
- Storage precautions: the air acidity, alkalinity or other harmful gases in the warehouse should meet the requirements of environmental protection regulations



9 Installation Flow

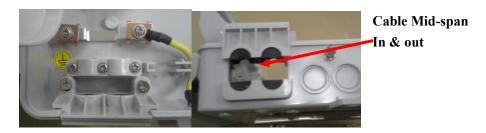
Figure 9-1 GF378-ODB-P Installation Flow



9.1 Lay out cables

9.1.1 Distribution Cable Operation Illustration

1. Use cross screwdriver to dismantle the upper part of mid-span accessories

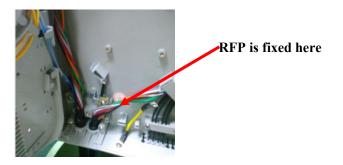


2. Cable passing through the mid-span ports and shall be clamped as following:



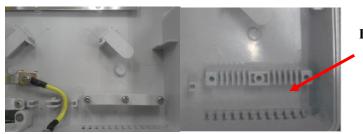


3. Fix the RFP of optical fiber cable to the metal plate for tension and strain relief;



9.1.2 Drop Cable Operation Illustration

1. Use cross screwdriver to dismantle the upper part of drop cable fixing accessories;

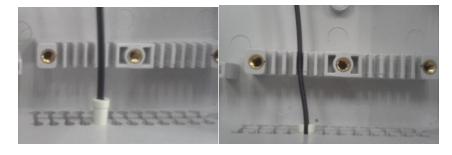


Drop cable fixing component

2. Drop cable shall pass through sealant 1 as following;



3. Insert sealant 1 into the port and fix the drop cable as following;



4.Back to step 2 and step 3 to install all the drop cable and put the upper part of drop cable fixing accessories back to the fixing position;





5.Use sealant 2 to block other ports which is not occupied by drop cable.



9.1.3 Connecting Optical Cables

P 9.1.3-1 GF378-ODB-GOPBV-2A/ Fiber cable ways







P 9.1.3-2 GF378-ODB-GOPPV-2A Fiber cable ways

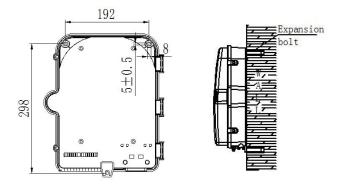


9.2 Install the chassis

9.2.1 Wall-mounted installation

Drill 3 holes over the wall based on the size Figure 5-4, place the expansion bolt, place the box to match up the holes and use bolt to fasten.

Figure 5-4 Wall-mount Installation Diagram

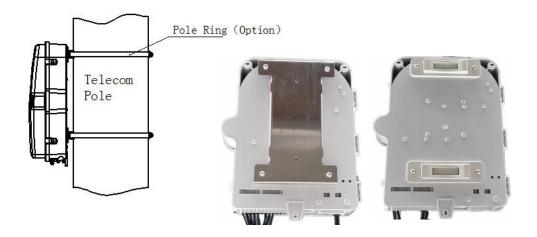


9.2.2 Pole-mounted installation

Fix 1 set of the easy pole ring to the telecom pole

Figure 9-5 Pole-mount Installation Diagram





Note: Pole diameter Φ75 mm - Φ230 mm.

9.2.3 Pedestal-mount Installation



Figure 5-6 Pedestal-mount Installation Diagram



10 Order Guide

Name	Model	Dimension (mm) ±3	Capacity	remarks
ODB	GF378-ODB-POPMV-2 A (black)	328*236*98	Max. Splice: 36 cores; Max. Install 2pcs mini type	Indoor or outdoor grounding mounting, wall
ODB	GF378-ODB-POPMV-2 A (grey	328*236*98	PLC Splitter 1x8 or 1pc 1x16; or 2pcs box type PLC Splitter 1x8 or 1pc 1x16	mounting or pole mounting

Appendix: configuration template for ODB

GF378-	-ODB-POPMV-2A				
No	Name	Model	Unit	Qty	Remark
1	Box body	GF378-ODB-POPMV-2A	рс	1	Grey or black optional
2	Steel hoops	SUS304,Ф75-Ф230		2	accessories
3	Splice protection sleeve		рс	24	accessories
4	Bare fiber protection sleeve		m	1.5	accessories
5	Water-proof cap	XDQAC-SC/PC-A	рс	24	accessories
6	Cable tie	L=125250	рс	20	accessories
7	Screws		рс	3	accessories
8	Plug-up for screws		рс	3	accessories