

Technical Specification



Optical Fiber Cable Distribution Box **PROBOX68-16A**

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1. General

1.1. Description

The equipment is used as a termination point for the feeder cable to connect with drop cable in FTTx communication network system. The fiber splicing, splitting, distribution can be done in this box, and meanwhile it provides solid protection and management for the FTTx network building.

Production type

PROBOX68-16A

Classification

Optical fiber cable distribution box

Appearance of PROBOX68-16A



1.2. Standards Comply

The production offered by FIBRAMERICA are designed, manufactured and tested according to the standards as follows:

ITU T G.652	Characteristics of a single mode optical fibre
IEC 60794 1 1	Optical fibre cables part 1 1: Generic specification General
IEC 60794 1 2	Optical fibre cables part 1 2: Generic specification Basic optical cable test procedure

1.3. Applications Environment

Item	Value
Operation temperature	-40 °C~+65 °C
Installation temperature	-5 °C~+40 °C
Storage temperature	-40°C~+65 °C
Atmospheric pressure	70~106Kpa
Relative humidity	≤93%(+40°C)

2. Characteristics

- **2.1.** Advanced structure design, easy operation and reasonable routing.
- **2.2.** Material: PP or PC+ABS.
- **2.3.** Moisture proof, waterproof, dust-proof, anti-aging.
- **2.4.** Protection level up to IP68.
- **2.5.** 1 oval optical cable entry, 2 branch optical cable entries and 16pcs of household
- **2.6.** Installation method: pole-mounted, aerial-mounted, wall-mounted

3. Specifications

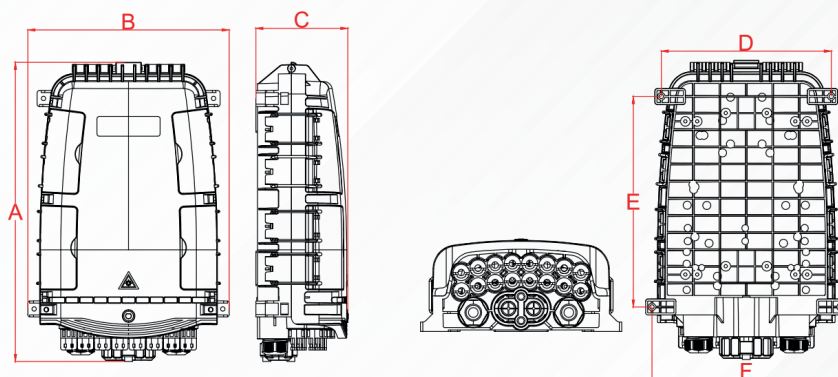
3.1 Mechanical specifications

Item	Specifications	Remark
External dimension(mm)	378*255*116(A*B*C)	-----
Installation hole position(mm)	215*266*239(D*E*F)	-----
Color	Black	Customizable
Size and quantity of optical cable hole	1 oval optical cable entry, 2 branch optical cable entries and 16pcs of household	-----
Capacity(Max)	3 type A(36 cores) or 6 type B (48 cores) or 6 type C(72 cores) melt fiber discs	It can be combined or selected

Into the largest cable diameter (mm)	Ø15	-----
Maximum size of bifurcation hole (mm)	Ø12	-----
Cable outlet size(mm)	2*3~Ø7	-----
IP protection level	IP68	-----
Flammability	HB(Conventional)	can be customized according to requirements
Neutral salt spray test (NSS)	48h	

4. Configuration

4.1 Main optical parameters



Splitter configuration

IL(dB)-Pigtail

IL(dB)-Distribution box

RL(dB)

Test method

Pigtail-SC/APC-00-SM-SX(1C1F)
-OD0.9MM-PVC-G657A2-Cable
Color (Defaults)-Indoor-RoHS-1.5m

≤0.3

≤0.5

≥55dB

IL: IEC61300-3-4
Method B

1* 8 PLC Splitter, with SCAPC connector

1* 8 PLC Splitter

≤10.5

≤10.7

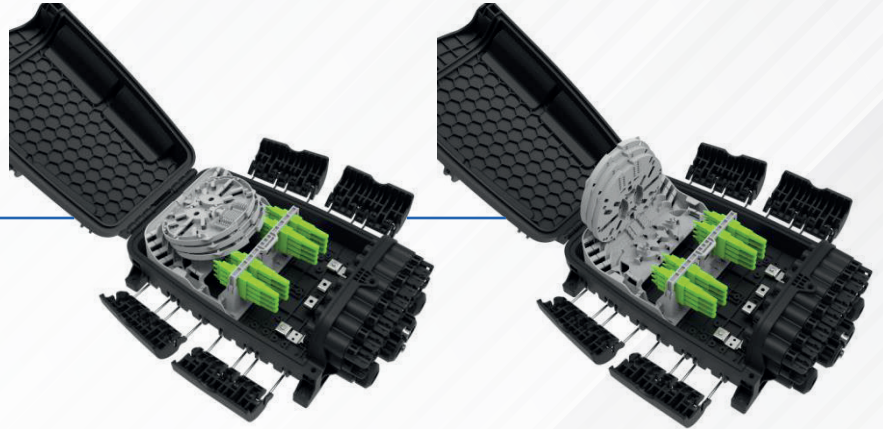
≥55dB

RL: IEC61300-3-6

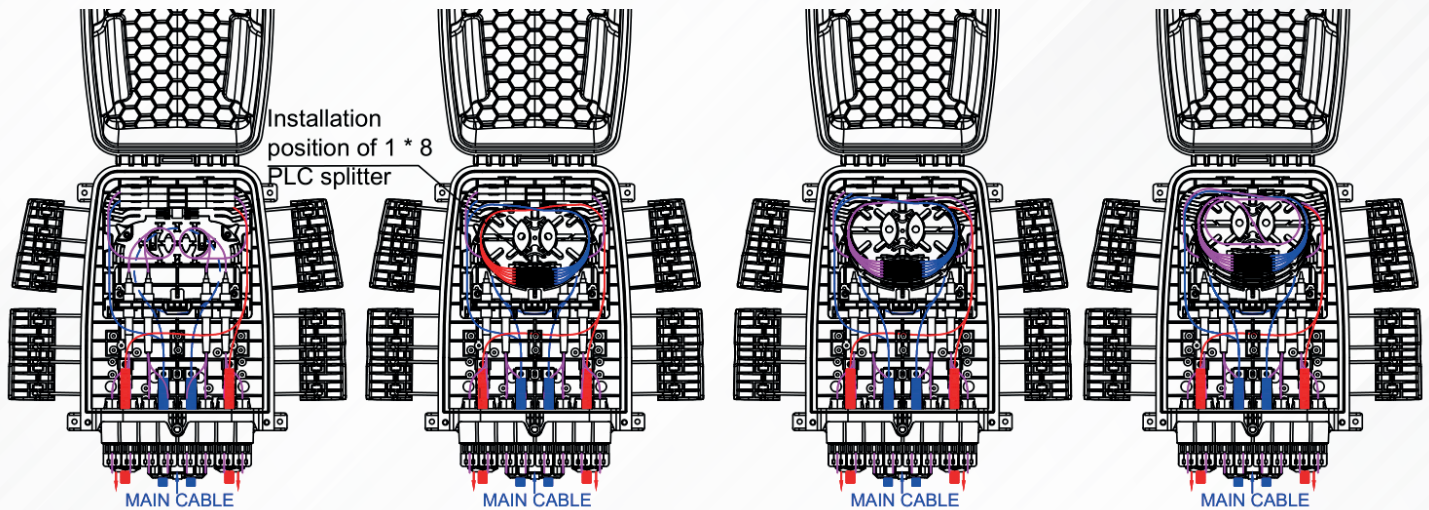
The optical parameters shown in the table above are default values, and can be customized according to requirements.

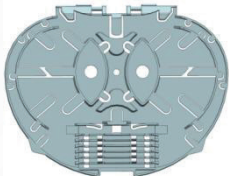
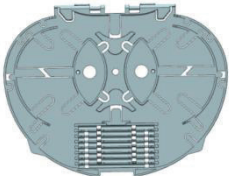
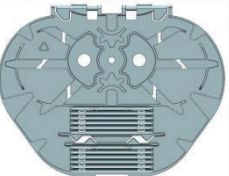
5. Product Picture

PROBOX68-16A routing diagram



5.1 Product cable ways:



Splitter configuration	Splicing tray A	Splicing tray B	Splicing tray C
Dimensions(H x W x D; unit: mm)	134*104*8	134*104*4	136 * 104 * 4
Net weight (unit: kg)	0.021	0.015	0.018
Picture			

Color	RAL7035	RAL7035	RAL7035
Material	PC+ABS	PC+ABS	PC+ABS
Splicing capacity of a tray(cores)	12, 1 slot for 1/8 PLC	8	12
Remarks	Removable protective cover	Do not install protective covers	Do not install protective covers

6.Environmental characteristics

This product complies with the RoHS environmental protection directive, and the content of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) does not exceed the limit.

7. Installation:

7.1. Wall-mounted installation

Drill 4 holes in the wall according to the dimension, place the expansion plug Φ 7.5*40, place the box to match up the holes and use screws to fasten.



Wall mounted installation

7.2. Pole-mounted installation

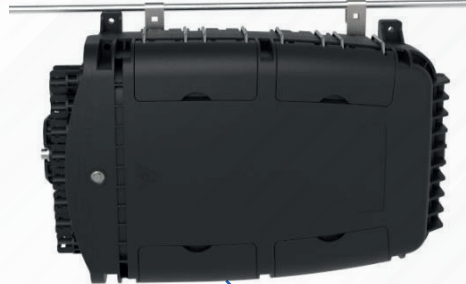
Pass the hoop ring through the slot of the back plate and fix it on the telecommunication pole



Pole mounted installation

7.3. The overhead structure

Tie the two installed on the chassis of the overhead hung on the wire, and then bolted, prevent the case fall off.



The overhead structure

8.Package

- 1PC in a bubble bag, 420*350mm;
- 1PC in a small carton, 385*260*125mm, gross weight is 3kg;
- 10PCS in a big corrugated carton, 540*405*655 mm, gross weight is 31kg.