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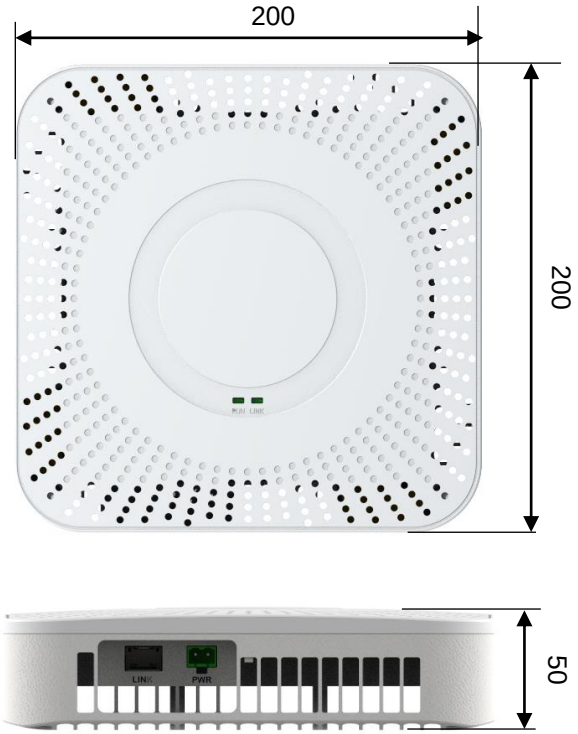
Pinge5000 Quick installation guide

Special attention: for the installation, it is required to be assembled by person with optical communication construction experience and equipped with professional optical fiber wiring tools and monitoring tools. Before wiring, it is necessary to check whether the work meets the requirements according to the guidance requirements.
During construction，Try to avoid bending optical fiber and section pollution, otherwise service may be damaged.

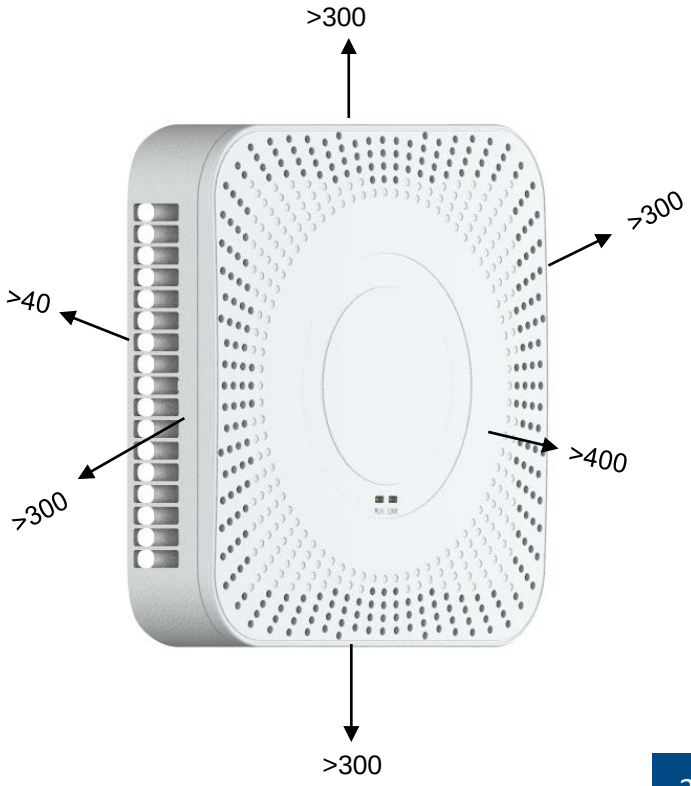
Version：V1.0

Space Requirement Of Installation (Unit: mm)

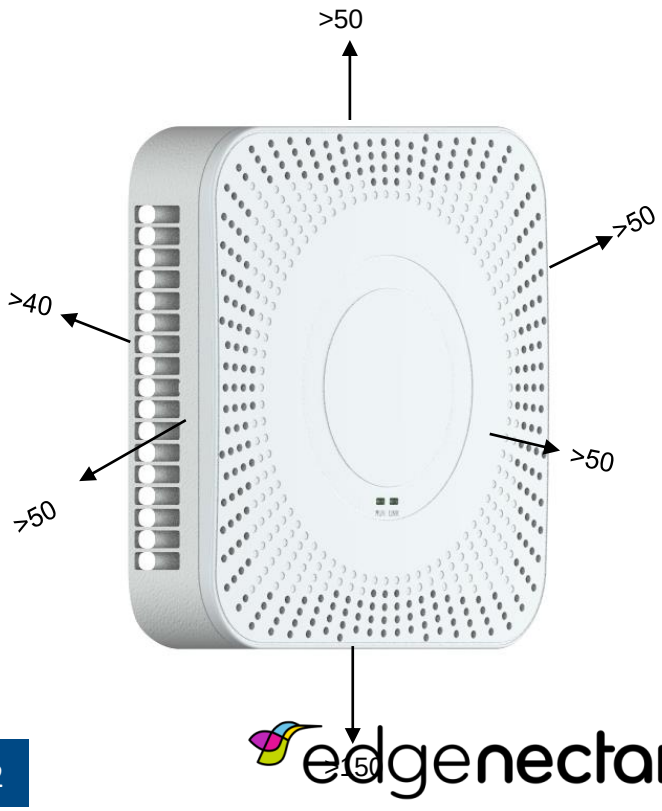
a pRRU Dimension



b Installation suggestion

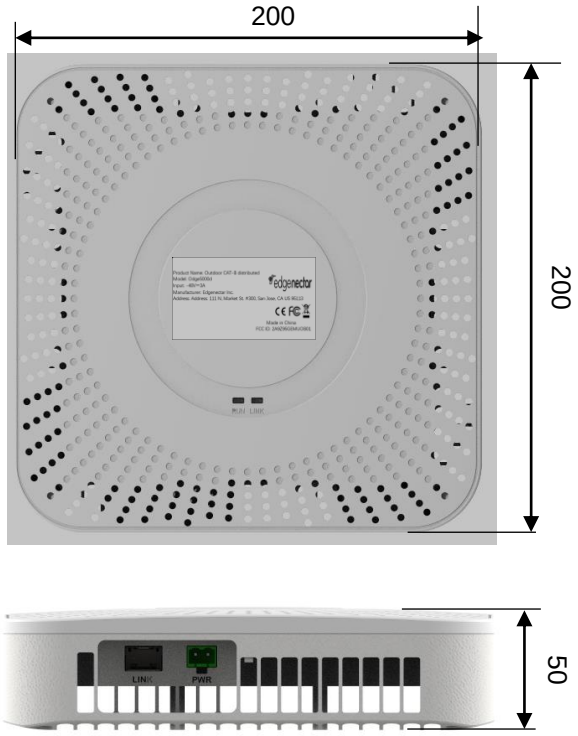


c Min. requirement for installation

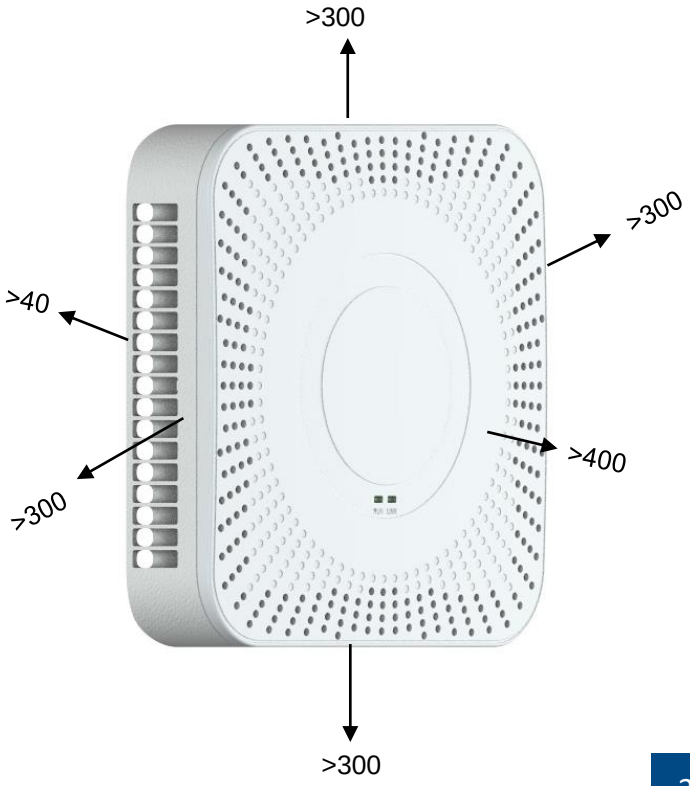


Space Requirement Of Installation (Unit: mm)

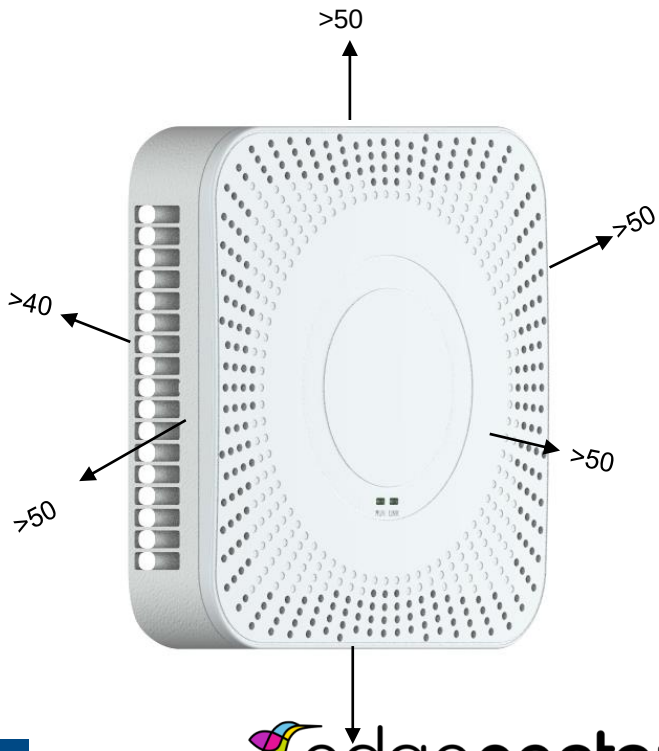
a pRRU Dimension



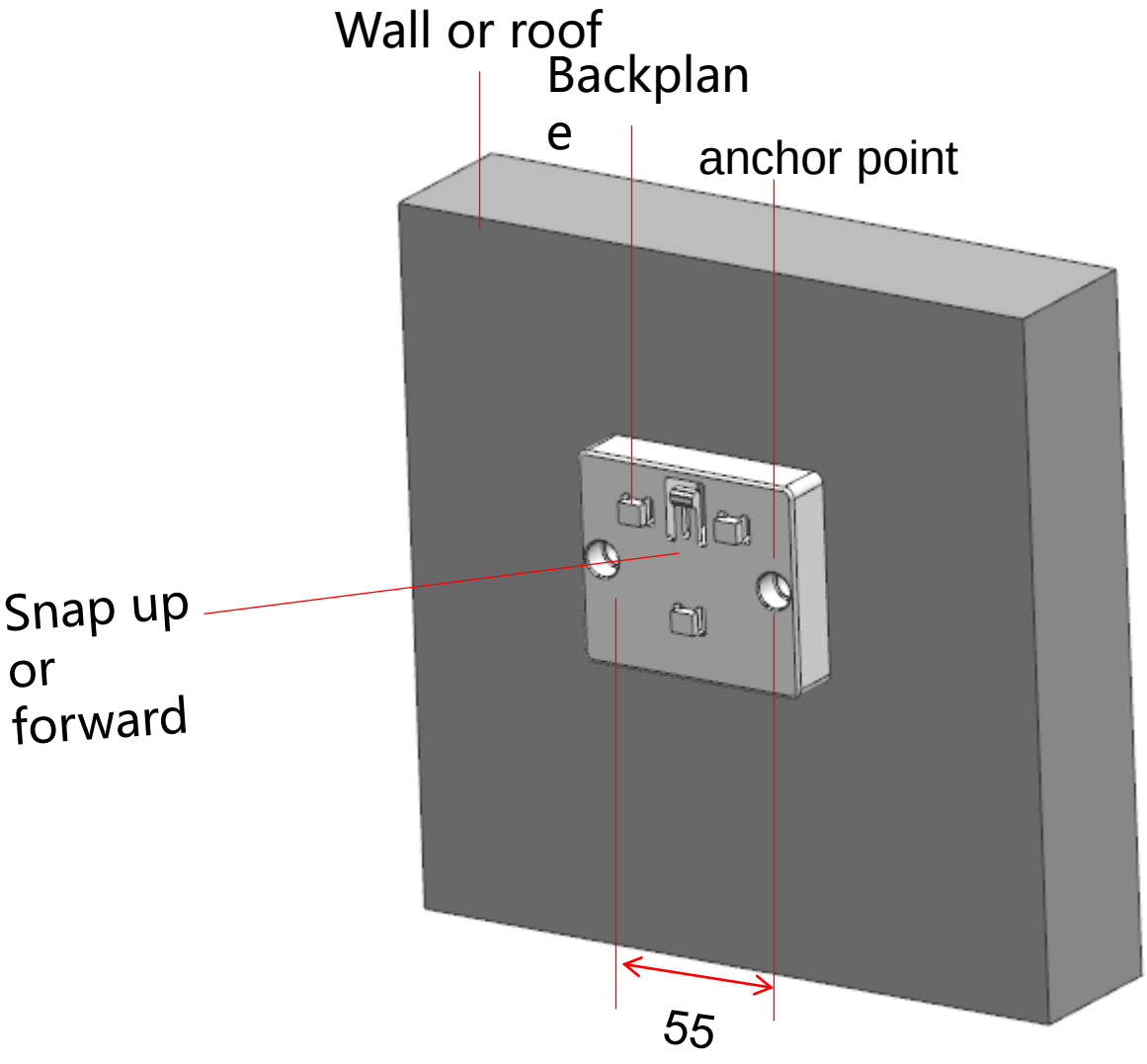
b Installation suggestion



c Min. requirement for installation



1. Mark Anchor



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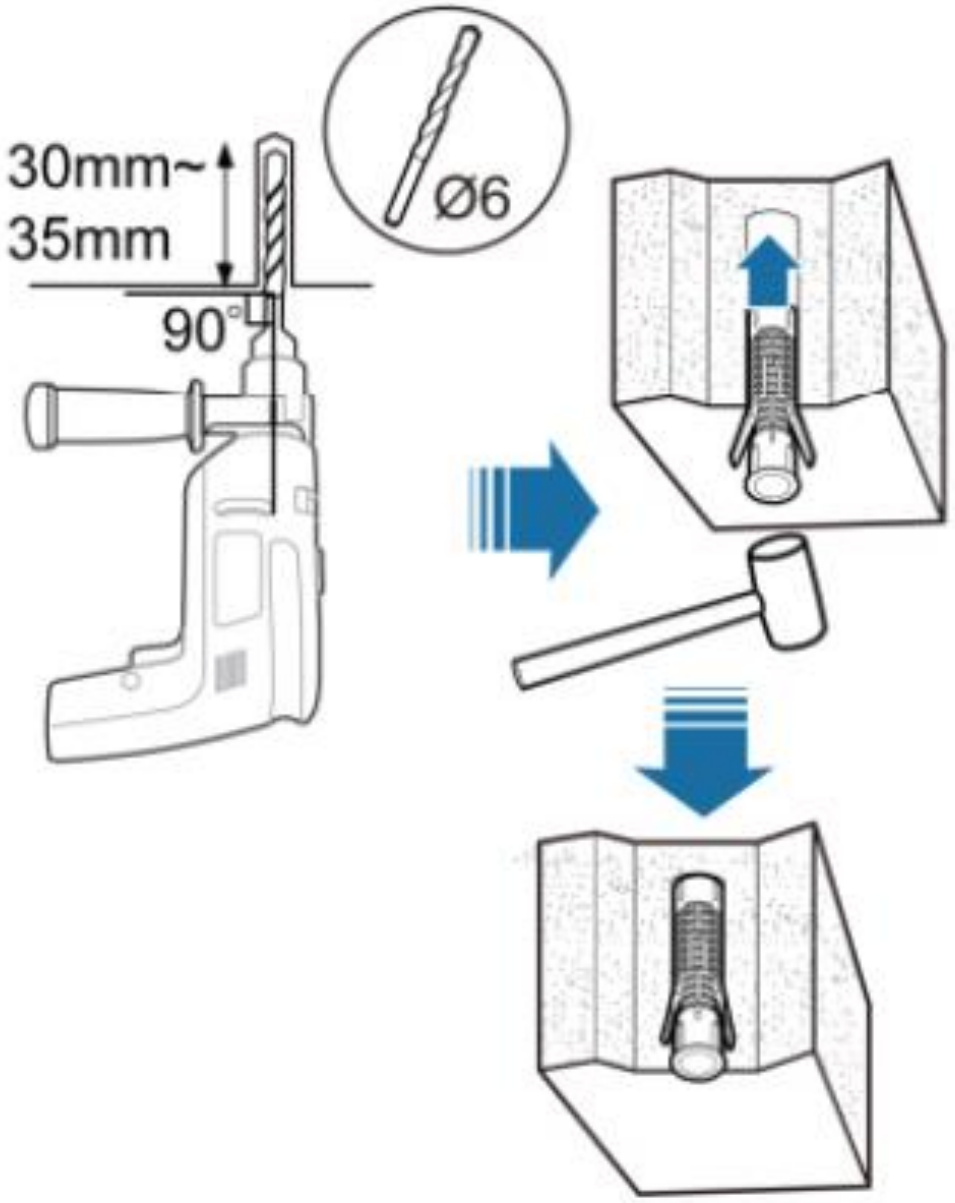
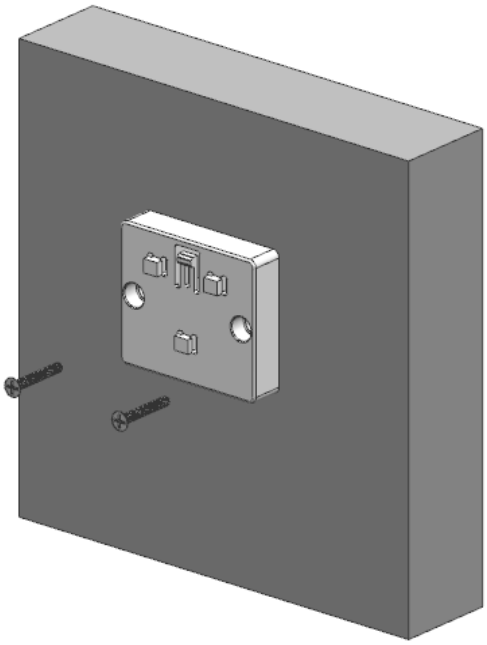
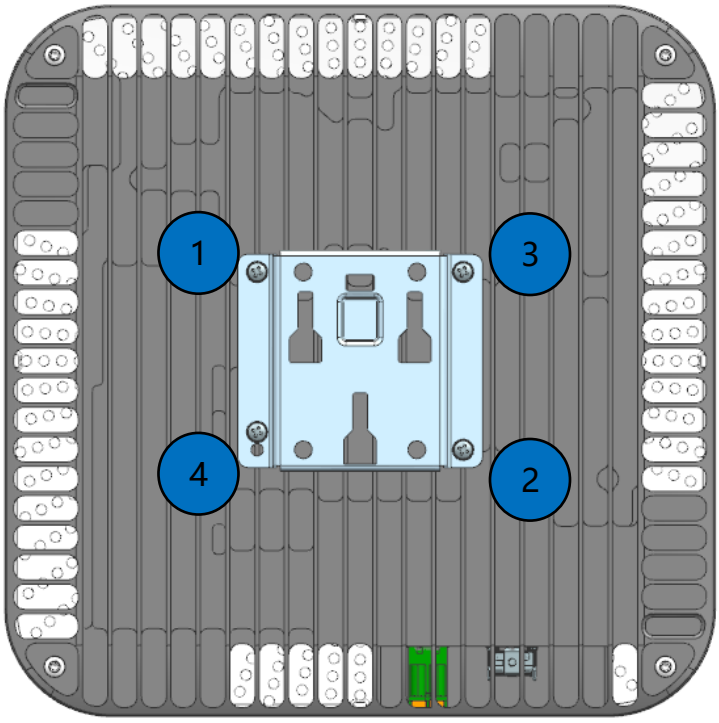
2. Punch and install the plastic expansion pipe



3. Install the backplane



Fix the metal mounting parts to the equipment according to the sequence shown in the figure



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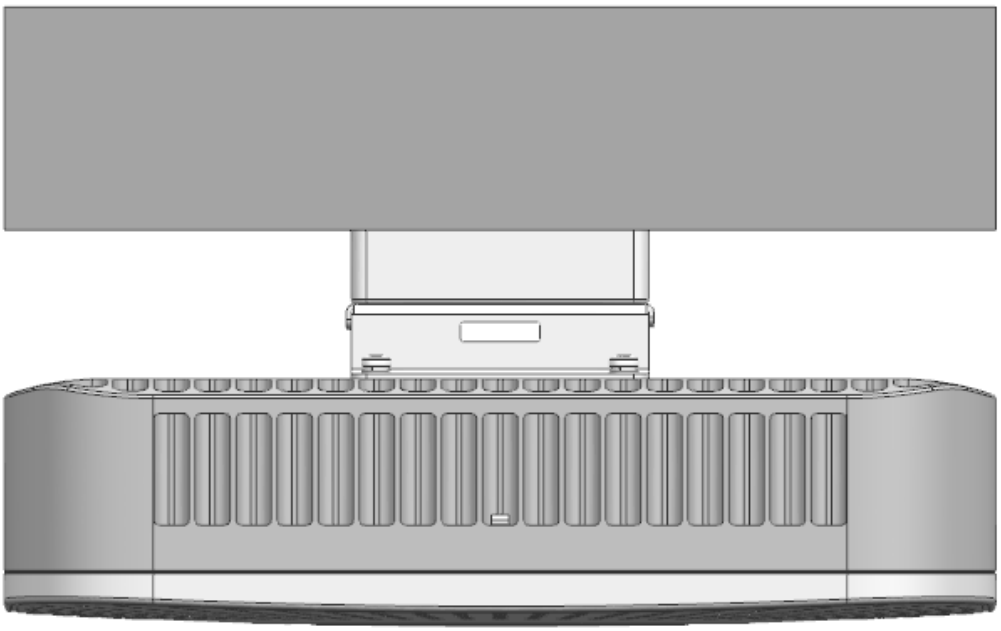
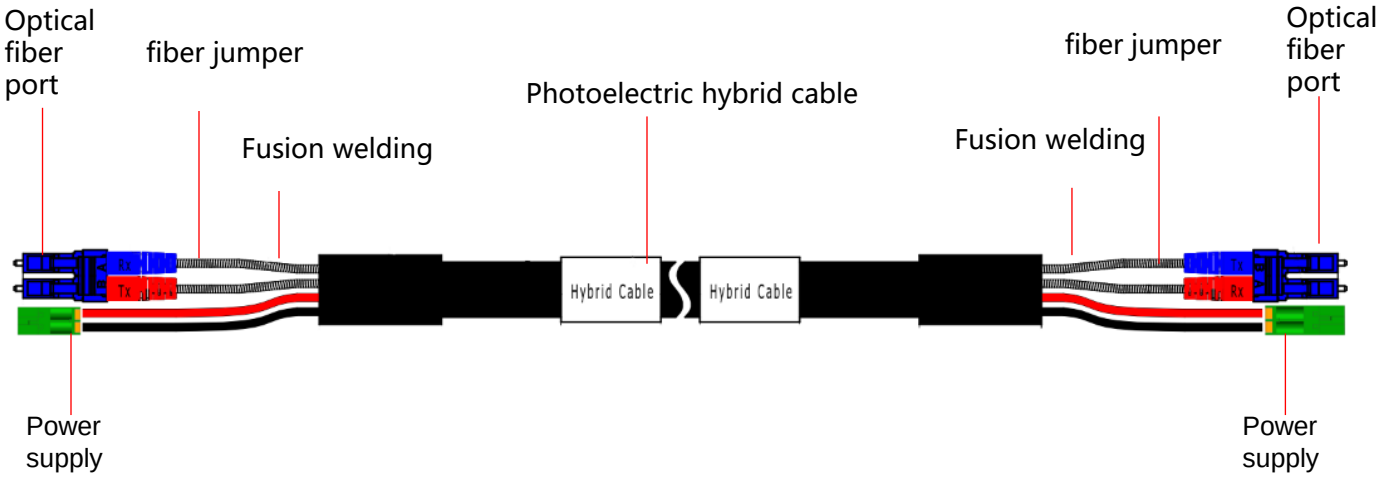
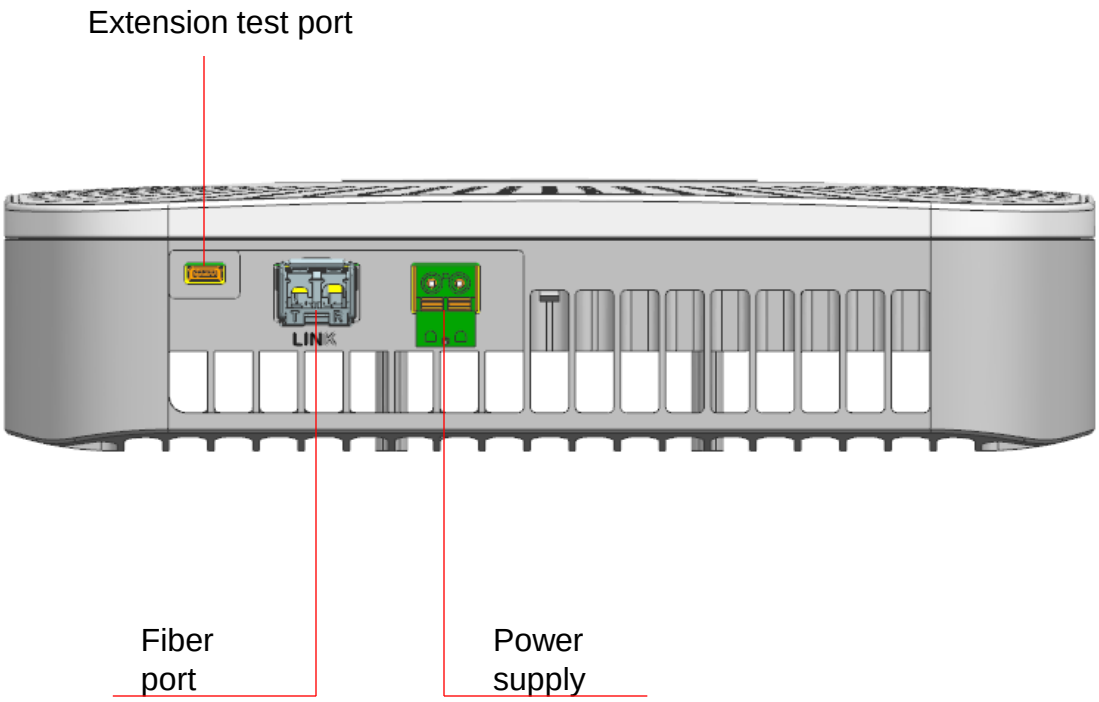
4.Install pRRU



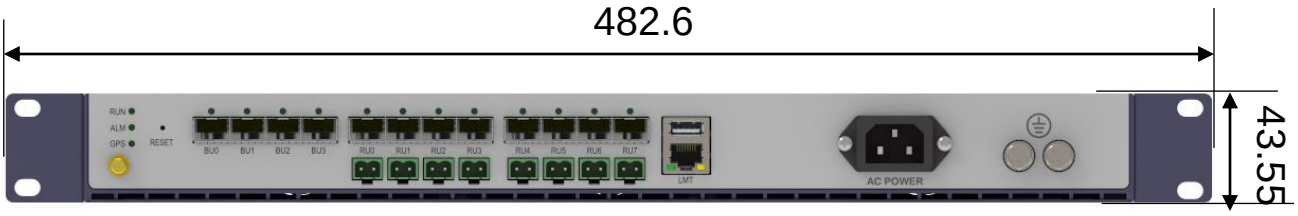
Align the position and slide the equipment

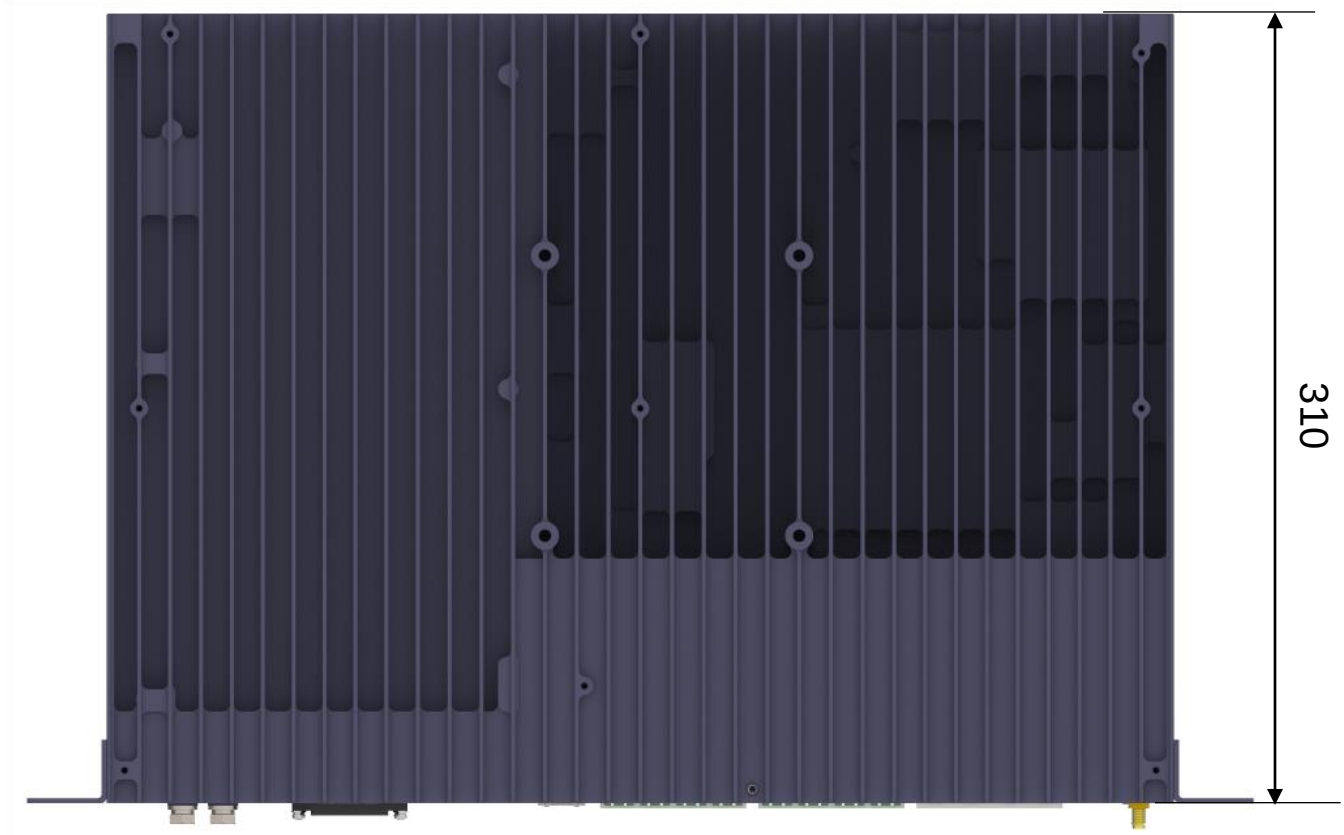
pRRU Installation





HUB Dimension





unit：mm

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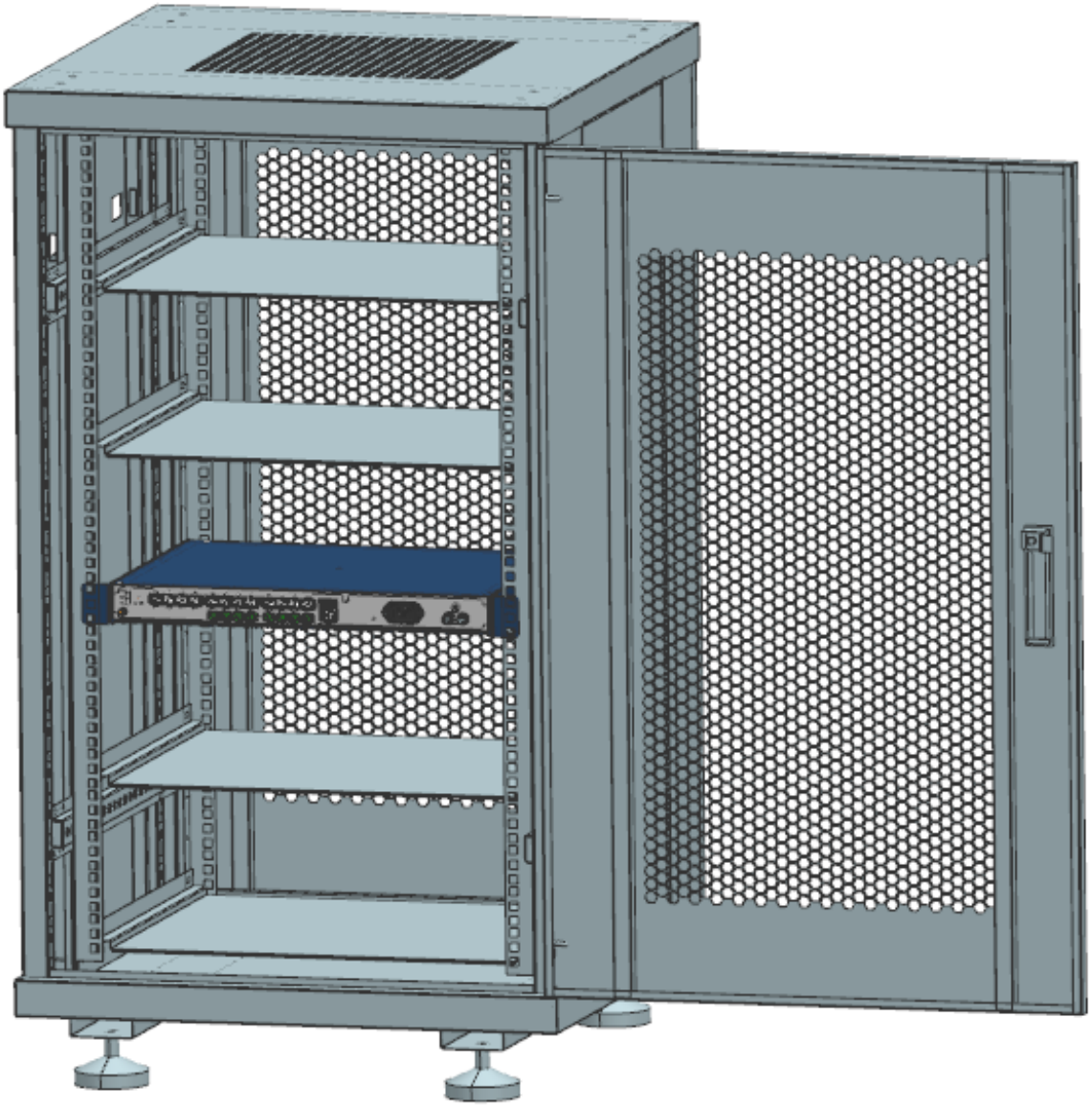
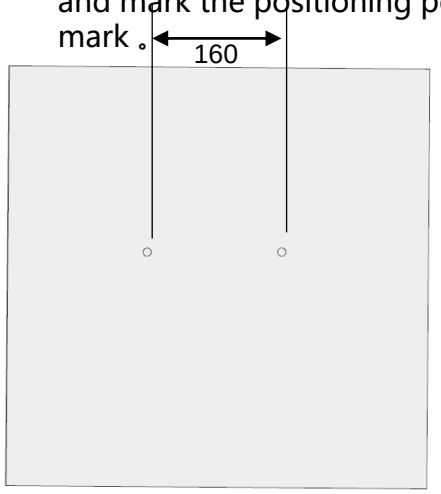
HUB installation



19” Cabinet installation，1U space

HUB Installation

1 Close the auxiliary fastener to the wall and mark the positioning point with a mark 。

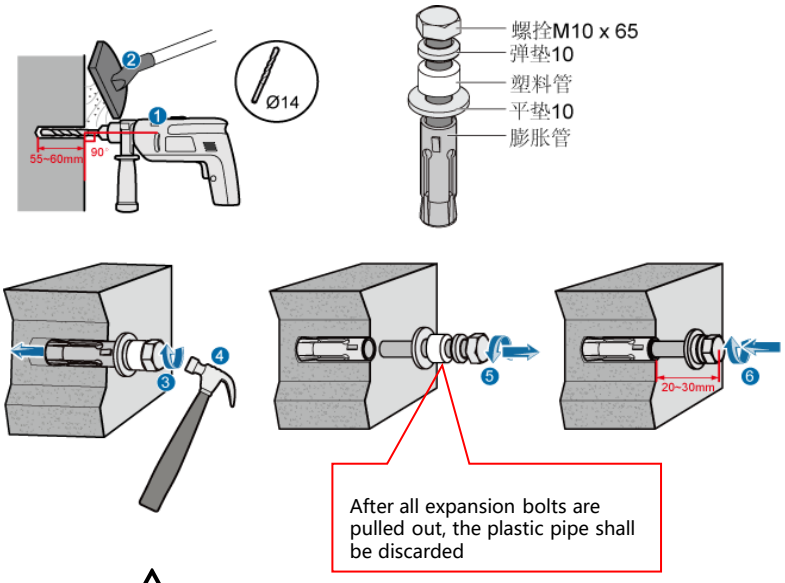


NOTE

The recommended RRU ground height is：

1200mm～1600mm。

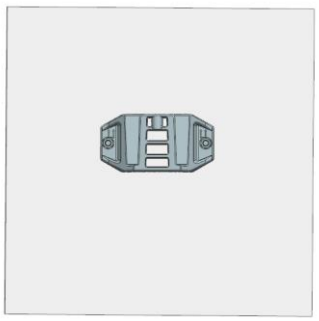
2 Punch holes at the locating points and install expansion bolts 。



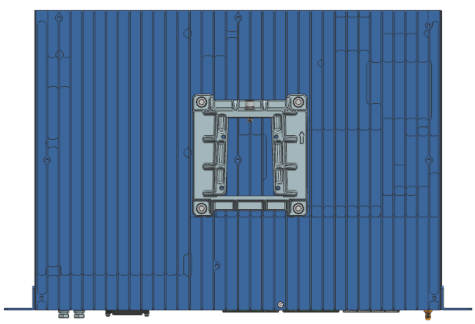
CAUTION

Do not screw all expansion bolts into the cavity, and the expansion bolts shall leak out of the wall for a distance of 20mm ~ 30mm.

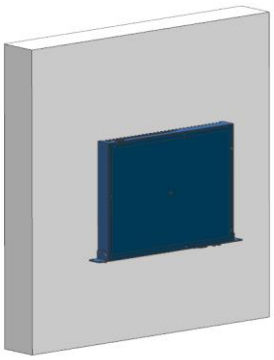
3 As shown in the figure below, make three holes in the wall and tighten the expansion bolt with a dual-purpose wrench (20mm ~ 21mm).



4 Install the mount on the hub.



5 Hang up the RRU and tighten the top nut



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- Personal Safety

During operation, pay attention that fiber breakage will cause damage to eyes or other parts of the body. Therefore, in the process of handling optical fiber, it is necessary to wear goggles and correctly dispose of waste optical fiber. Do not look directly at the optical fiber end face with light.

- Installation tool

Cable peeling tool

Fiber stripper

Fiber cutter

Fiber welding Machine

Fiber stripper

Dry paper

Alcohol 99.5%

Crimping pliers

- Test tool

Red light pen

Laser light source

Fiber power meter

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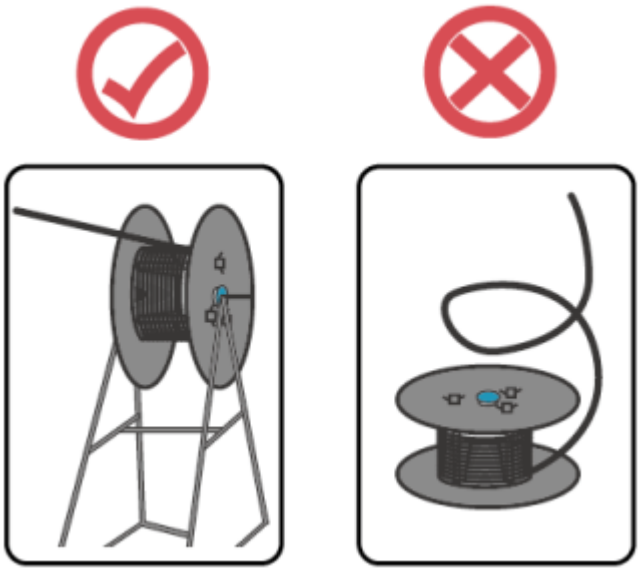
Accessories: LC-FC jumper/LC-LC jumper/LC-LC female head

Cable Laying

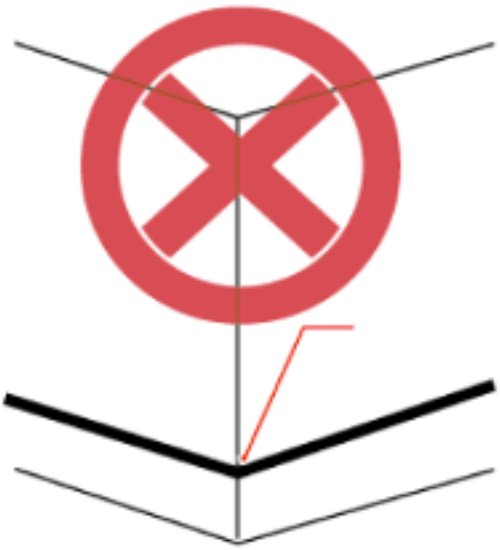
Pay off rack is adopted for paying off:
Horizontal setting out of cable reel is prohibited;



On Site Construction Of Photoelectric Hybrid Cable

The cable shall be natural and straight; Twisting and looping are strictly prohibited;

Do Not Bend Or Damage The Cable Excessively



Fiber easy to break when it crosses a right angle

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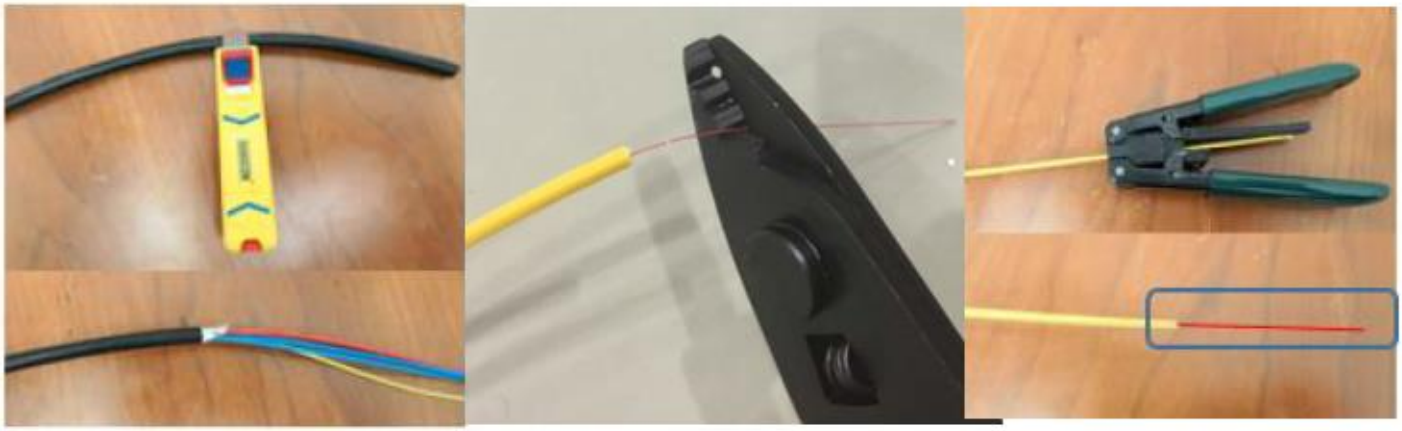
Bare fiber on-off test

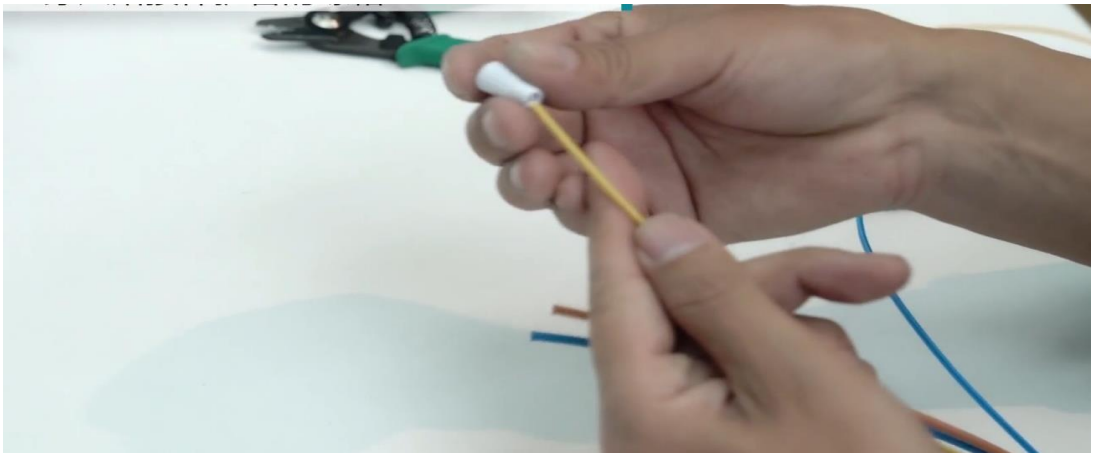
After the cable is laid, use the bare fiber adapter and red light pen to conduct the bare fiber on-off test to avoid repeated mobilization in the later stage;



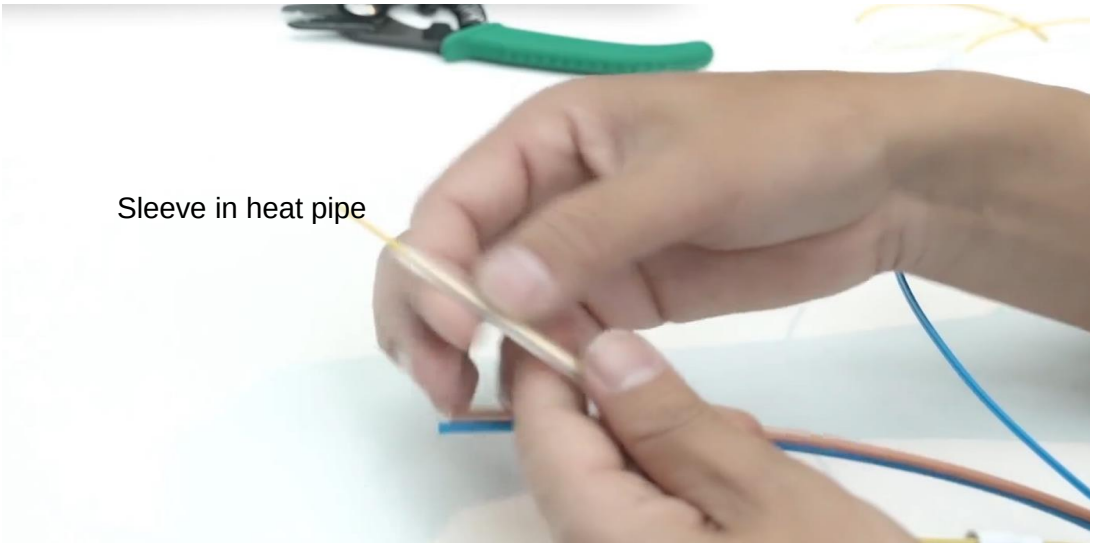
Fiber treatment: sheath stripping / fiber stripping / core stripping

fiber adapter

Test steps: insert optical fiber / test on-off



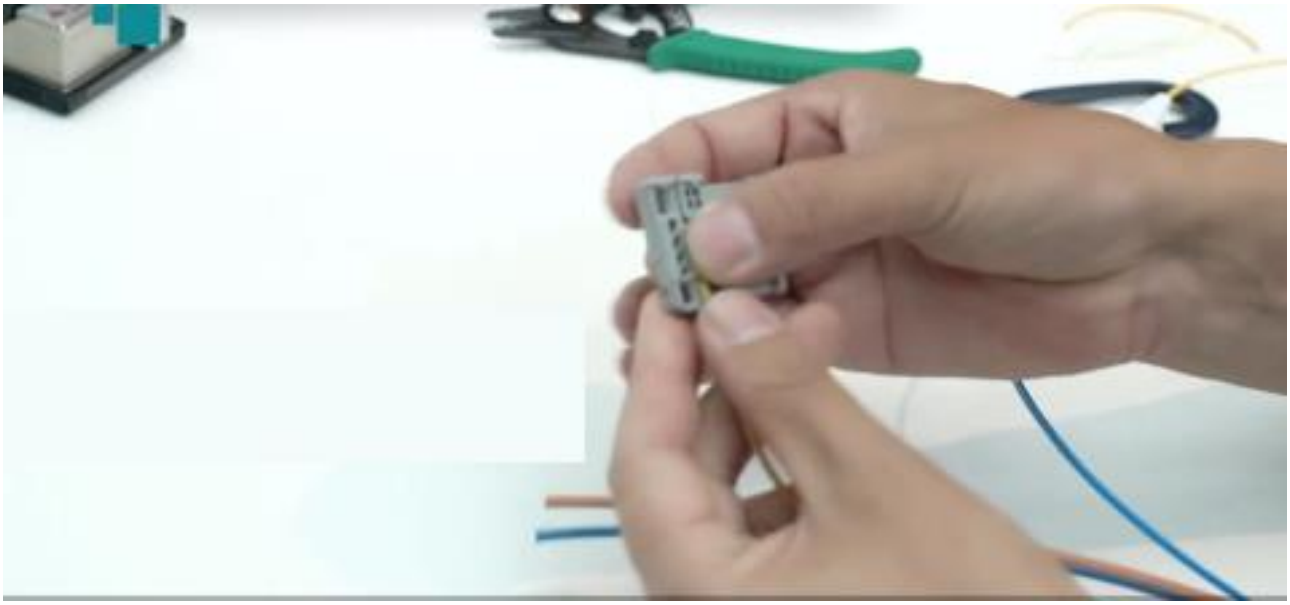
1. Thread one end of the optical fiber and tail fiber to be welded into the nut of the welding protection tube respectively



2. Insert Sleeve in 60mm heat pipe

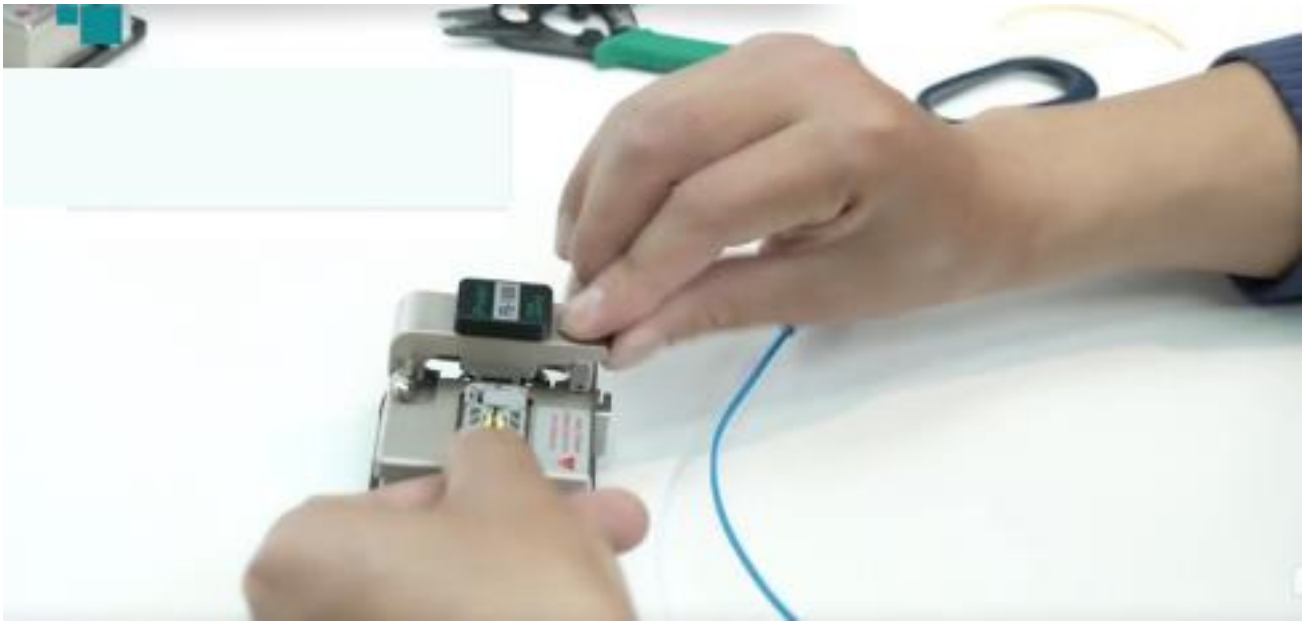
3. Use the butterfly fiber stripper to cut off the excess fiber protective sleeve, and then peel and clean it

4. Open the fiber clamp cover, press it into the clamping slot, cover the clamp cover and flatten it



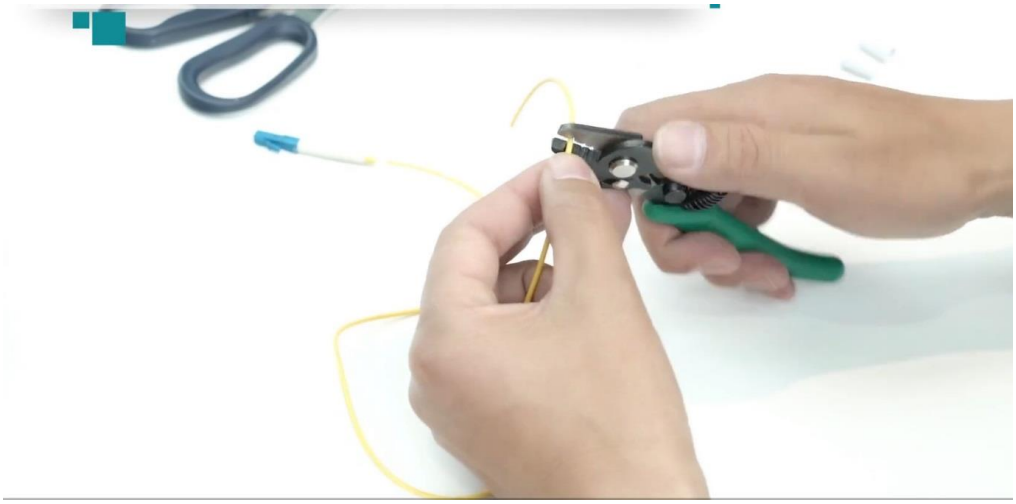
5. Put the fiber clamp into the tray

6. Put the tray into the fiber stripper, press the fiber stripper, pull out the tray at a uniform speed and straight, and peel off the fiber coating

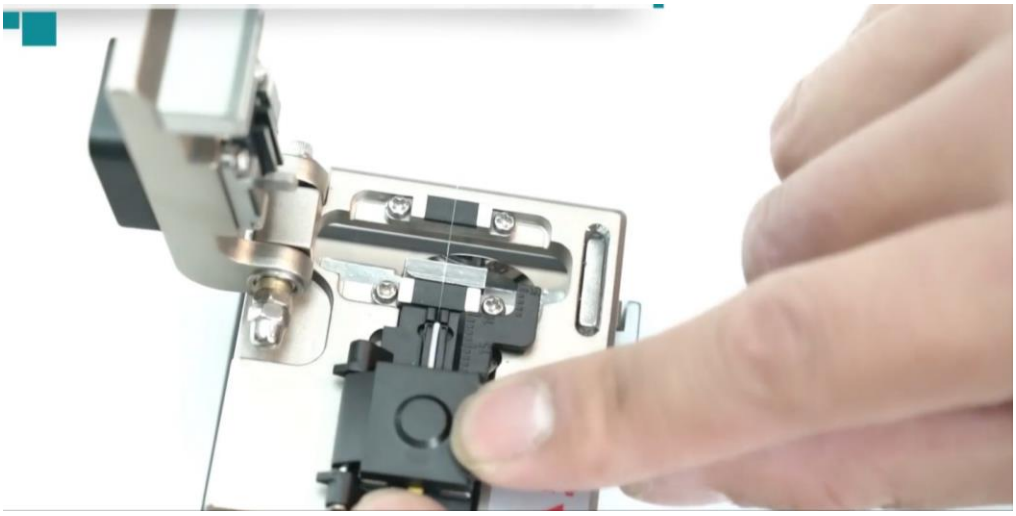


7. Place the tray on the optical fiber cutter, pay attention to the alignment of the front end of the tray on the cutter slot, and cut the optical fiber

8. Remove the fiber from the tray and the clamp

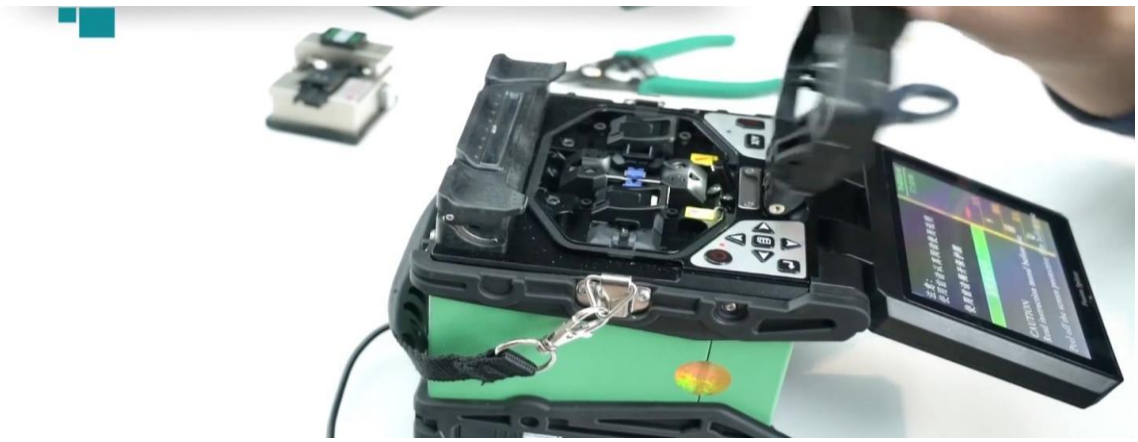


9. Prepare the hot melted pigtails

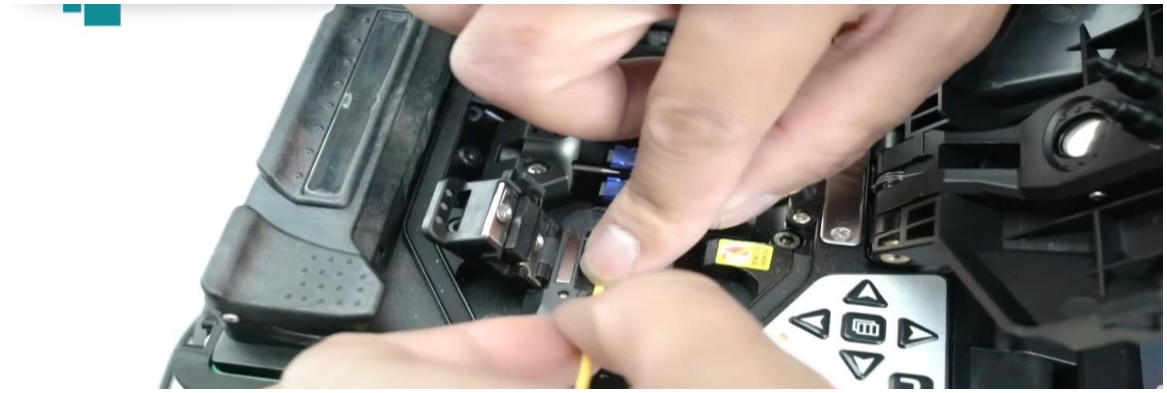


10. Cut with fiber cutter

11. Clean With Alcohol again



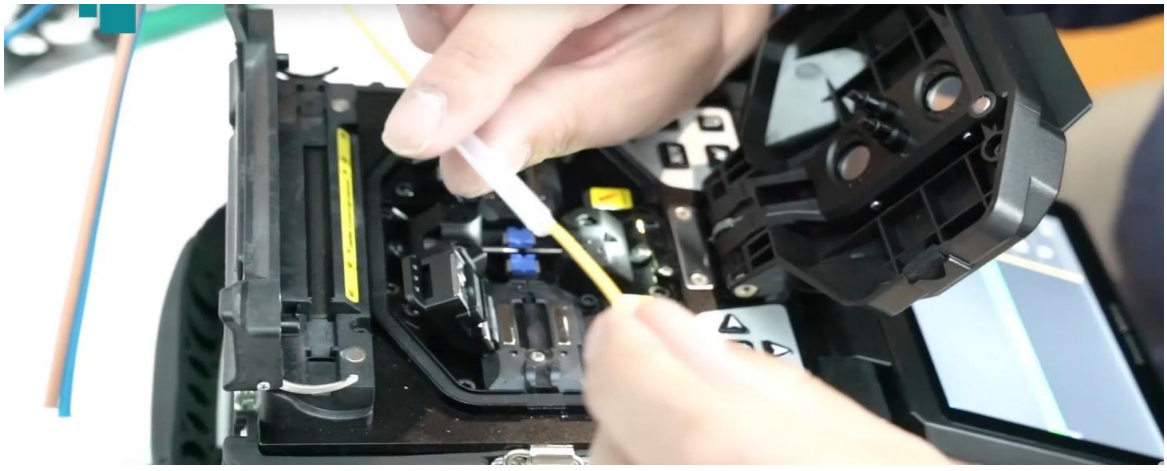
12. Fix the cable and pigtail into the splicing box of single core optical fiber fusion splicer



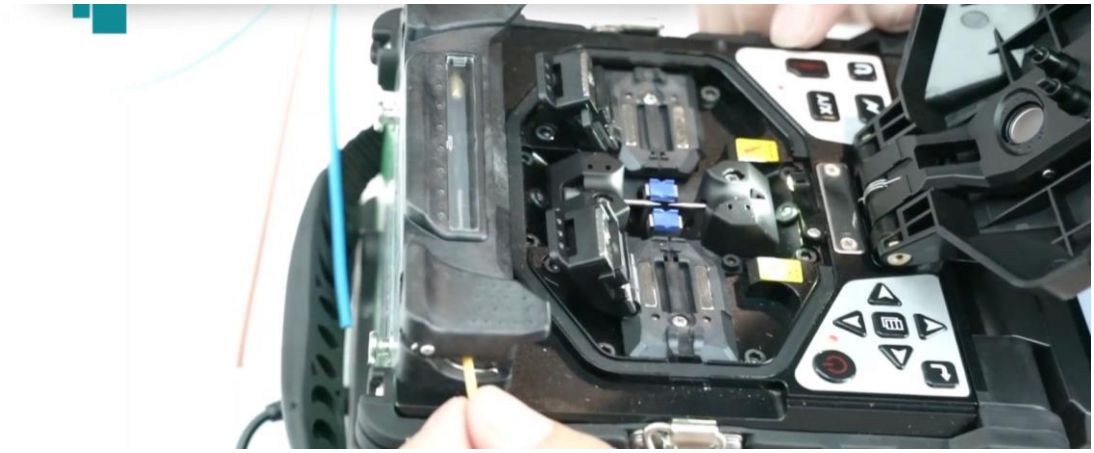
13. Put the pigtail into the 0.9mm guide slot and the fiber into the 0.25mm guide slot

14. Turn on the welding machine to connect the optical fiber and pigtail

15. Check the insertion loss value after fiber fusion. If it is bigger than 0.05db, repeat the above steps for re-fusion (the fusion will prompt the abnormal causes, such as uneven end face, bubbles in fusion, fiber core damage, etc.)



16. Slowly move the heat shrinkable sleeve to the fusion point to cover the exposed fiber



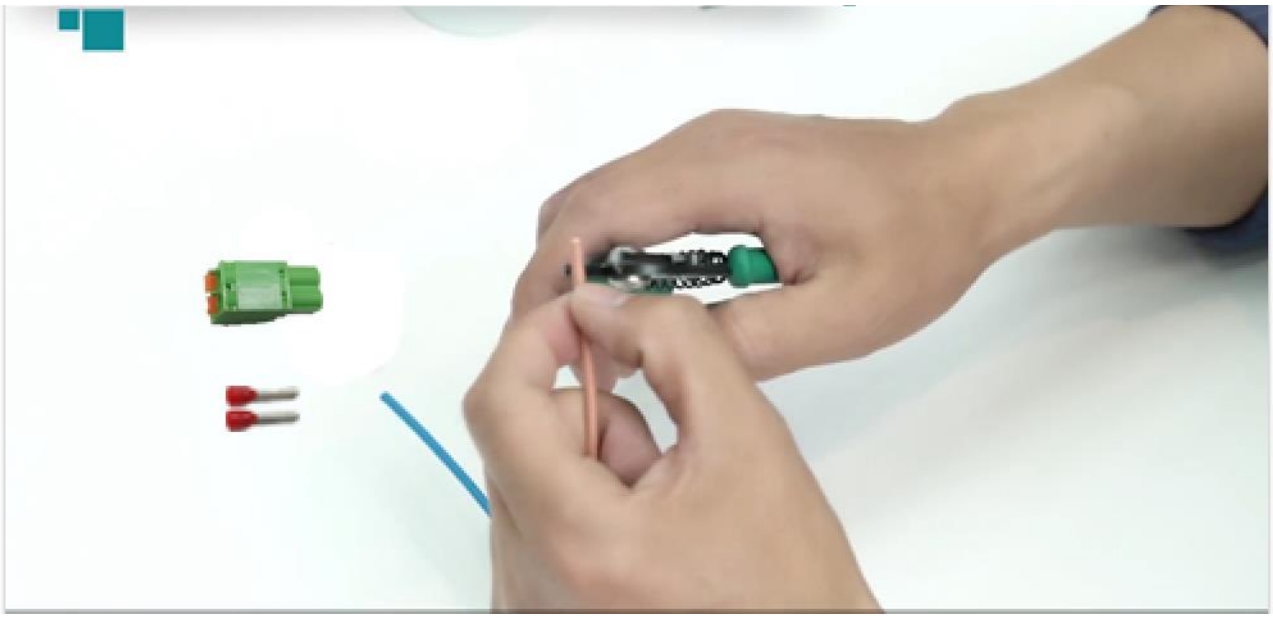
17. Fix the fiber to the heat shrinkable groove of the welding machine, start heating, and take it out after the heat shrinkable is completed

18. Check whether the heat shrinkable sleeve is close to the outer sheath of the fiber. If it cannot play a protective role, and needs to continue heating

19. Install the fused optical fiber into the protective sleeve and tighten the nuts at both ends

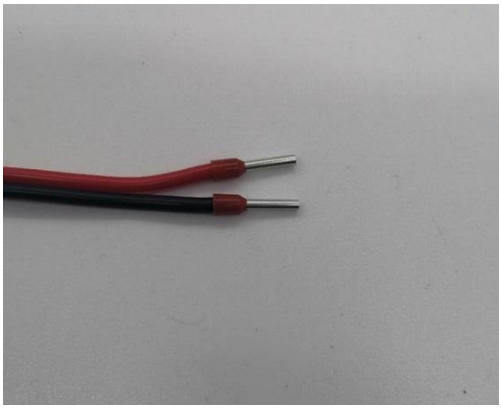
20. Weld another optical fiber and repeat the above steps

Power Cord Fabrication



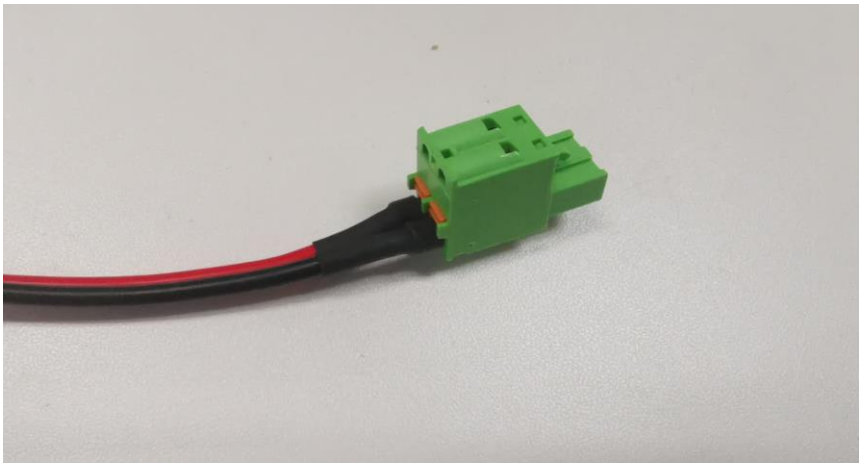
1. Peel off the 8mm power cord insulation

On Site Construction Of Photoelectric Hybrid Cable



1. Sleeve in cold-press tube terminals

2. Crimping pliers shall crimp the segment. If the tail wire is exposed, it shall be protected by heat shrinkable sleeve



3. Press the orange button, insert the power cord according to the sequence shown in the figure, and then release it. Pull each cable outward with about 10N force to confirm that each cable is well connected

Connect Photoelectric Hybrid Cable

Connect Equipment

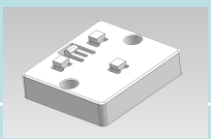
EU

pRRU

Connect EU and pRRU. In the connection of photoelectric hybrid cable, pay attention to the sequence of optical fiber TX and Rx and the optical port and power port corresponding to pRRU and EU.

Connect Photoelectric Hybrid Cable

Material List

No	Item	Picture	Note
1	Photoelectric hybrid cable(variable length)		Cut according to the length of field survey
2	Fiber pigtail		Cut in the middle, and the cut-off part shall be welded with both sides of the photoelectric hybrid cable respectively
3	Optical cable protection box		Optical fiber fusion protection
4	Optical fiber protective sleeve		Optical fiber fusion protection
5	Tubular terminal		
6	Power terminal		
7	Installation accessories for communication		Auxiliary materials package
8	Backplane		Fixed to a wall or roof
9	Sheet metal mounting parts and fixing screws	 	Fixed to pRRU
10	Tubular plugs and screws		Fix the backplane to the wall

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following

two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful
interference in a residential installation. This product generates, uses, and can radiate radio frequency
energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular
installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.