

External Pole Mounted Box

The Product Type: MGP-32CZ



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.

2. Features:

- Total enclosed structure, nice appearance.
- Material: PC and ABS, wet-proof, water-proof, dust-proof, anti-aging.
- Protection level: IP65.
- Clamping for feeder cable and drop cable, fiber splicing, fixation, storage, distribution etc., all in one.
- Cables, pigtails, patch cords are running through own path without distributing each other.
- Cassette type: SC/LC/PLC adapter installation, easy to maintenance.
- Distribution panel can be flipped up, feeder cable can be placed.
- Cabinet can be installed by the way of wall-mounted or poled-mounted, suitable for both indoor and outdoor usage.

3. Specification:

(1) Environmental requirement

- Working temperature: -40°C ~ +60°C
- Relative humidity: ≤85% (+30°C)
- Atmospheric pressure: 70KPa ~ 106KPa

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(2) Main technical data sheet

- Insertion loss: $\leq 0.3\text{dB}$
- UPC return loss: $\geq 50\text{dB}$
- APC return loss: $\geq 60\text{dB}$
- Life of insertion and extraction: > 1000 times

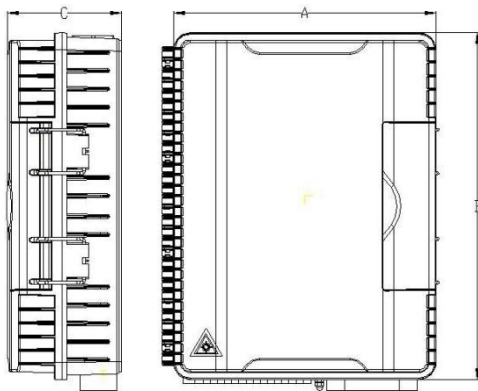
(3) Thunder-proof technical data sheet

- The grounding device is isolated with the cabinet, isolation resistance is less than $2 \times 10^4 \text{ M}\Omega/500\text{V}(\text{DC})$; $IR \geq 2 \times 10^4 \text{ M}\Omega/500\text{V}$
- The withstand voltage between grounding device and cabinet is no less than $3000\text{V}(\text{DC})/\text{min}$, no puncture, no flashover; $U \geq 3000\text{V}$

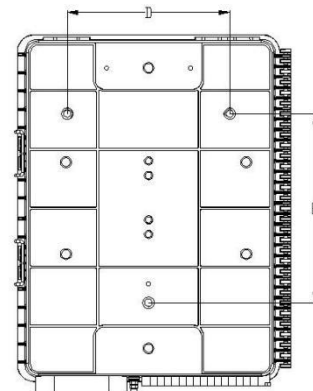
4. Configuration table:

Table 1 Type and configuration

Type	Size (Pic 1)	Max Capacity		InstallationSize(Pic2)
	AxBxC(mm)	Insert Split	PLC split	DxE (mm)
MGP-32CZ	250*340*110	32	32	155*180



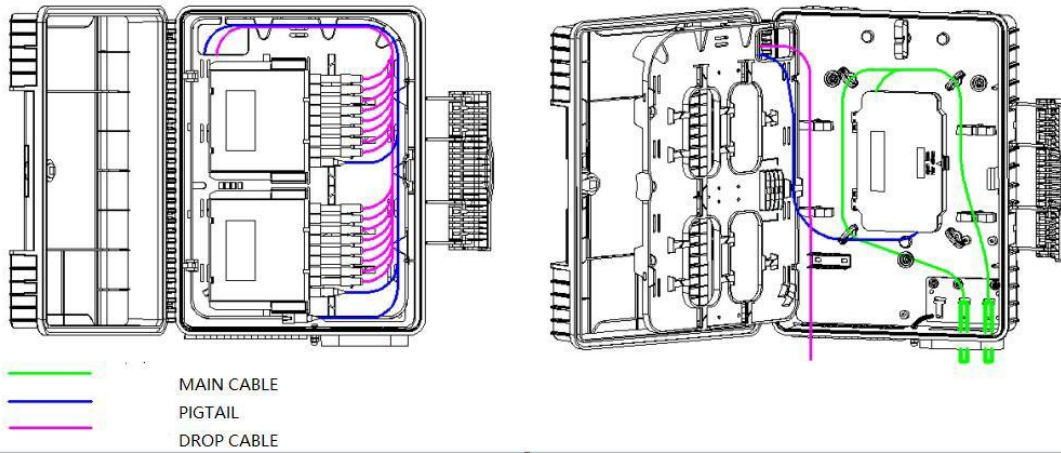
Pic 1 Box Size



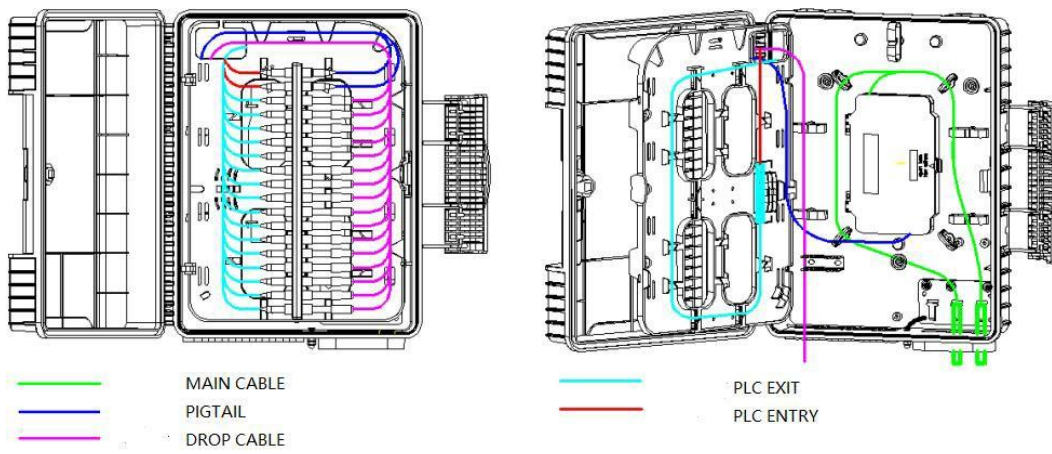
Pic 2 Wall Installation Size

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5. Product Cable Ways:



MGP-32CZ Inset Split cable ways

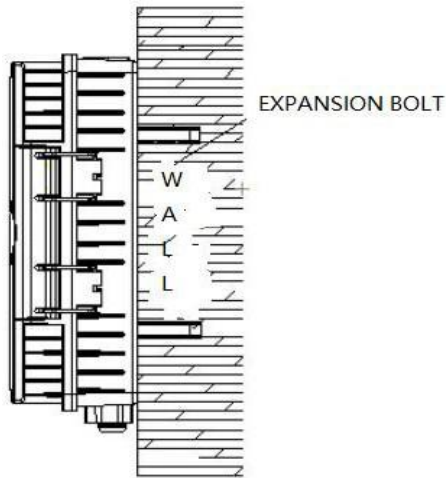


MGP-32CZ PLC Split cable ways

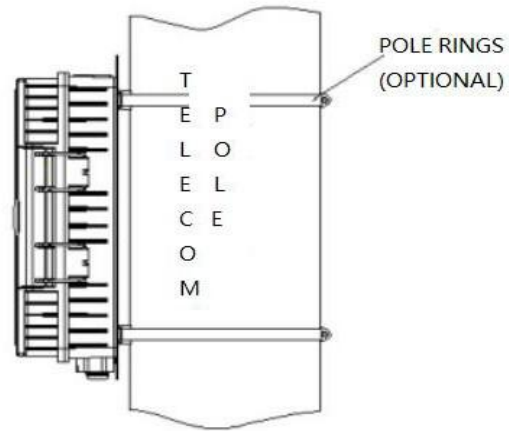
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6. Installation:

- Wall-mounted installation: With the impact drilling drill 3holes on the wall, knock into $\Phi 7.5 * 40$ plastic expansion bolts, put the box hanging on, and completely fixed with screws. (Pic 3)
- Pole Mounted installation: Use the T clip to secure the mounting brackets on the telecom pole



Pic 3 Wall-mounted installation



Pic 4 Pole installation

7. Accessories:

- Users' Manual: 1pc
- Key: 1set
- Easy pole ring: 2pcs
- mounting bracket: 1pc (Optional)
- Accessories Bag: 1pc



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8. Reliability test requirements

MGP-32CZ optical cable distribution box reliability test requirements				
serial number	Test items	judgement standard	Test Conditions	Test method reference standards
1	IPX5	There is no damage to the appearance and no water enters the product .	<ol style="list-style-type: none"> 1. Conduct appearance inspection and shell inspection of the sample before testing; 2. IPX5 water spray device (water spray hole diameter 6.3mm) main water flow center part: circular flow rate of about 40mm diameter 2.5m away from the nozzle: 12.5 (1±5%) L/min distance 2.5~3m water spray time: 1min /m², at least 3 minutes 3. After the test is completed, carefully open the box and check the inside of the casing. When opening the casing, be careful to prevent water droplets from external gaps from entering the inside of the box. 	GB/T 4208-2017
2	IK08	The inner and outer surfaces of the impacted area are not damaged or have any penetrating cracks.	<ol style="list-style-type: none"> 1. Install the test sample at (-15±2)°C and (45±2)°C; 2. Use a 1kg steel ball to impact the fiber distribution box at a height of 0.5m; 3. The impact point rotates around the longitudinal axis of the fiber distribution box to the center of the fiber distribution box at angles of 0°, 90°, 180°, and 270°; each point is impacted once. 	
3	Repeatedly open	It can self-lock after being flipped over 100 times.	<ol style="list-style-type: none"> 1. Turn over 100 times when fully configured (install the pigtail and optical splitter); 2. Upper cover: Repeat opening 100 times 	
4	temperature cycle	Non-metallic components should not be discolored, cracked, degummed, etc.	<ol style="list-style-type: none"> 1. Conduct appearance inspection, mechanical performance inspection, and optical performance inspection on the sample before testing; 2. -40°C-70°C, humidity 93%Rh (when the temperature is 70°C), 1°C/min, 2h for each extreme value, 12 cycles . 	GB/T 2423.22-2012
5	Salt spray test	After the salt spray test, cleaning and inspection showed that there was no visible rust on the appearance.	<ol style="list-style-type: none"> 1. The mass percentage concentration of sodium chloride (NaCl) solution is (5±1)%. 2. Spray temperature is 35°C. 3. After 48 hours of salt spray test, clean and inspect. There is no visible rust on the appearance . 	GB/T2423.17-2008