


TECHNICAL SPECIFICATION

ODP(Wall Mounted)



Revision	Date	Prepared	Checked	Approved	Remark
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ODP fiber box is the FTTx construction to meet the optical fiber splicing, distribution of the box, for the end of the optical fiber routing branch. The box can be hung in the building wall

installation, outdoor wall hanging installation, but also to meet the outdoor pole road installation. The product is designed according to the requirements of China Telecom group China Telecom (FTTH) engineering design specification (No. DXJS1021-2007). When the box is used outdoors, its sealing performance can meet the requirements of the IP65 level of GB (People's Republic of China 4208-2008). The box body is provided with a reliable grounding protection device.

ODP box shell adopts PC/ABS high quality flame retardant alloy material, the SC adapter in the box adopts high temperature resistant PBT polymer material.

Mechanical performance:

Box life > 15 years;

Box door open / close repeat operation 1000 times, the function is intact, no excessive wear;

The adapter plug 500, an increase of insertion loss value is less than or equal to 0.2dB

Electrical performance:

The high voltage protective device of the box body is insulated from the box body, and the insulation resistance is not less than 1000M Omega /500V (DC);

The high voltage protective device of the box body is not less than 3000V (DC) with the resistance between the box body and the box body, and the 1min has no breakdown and no arc.

Optical performance:

Optical properties of optical fiber connector

unit: dB

Number	Project name	multimode (1300nm)		singlemode(1310nm and 1550nm)						
		insert loss	additional loss	insertion loss		additional loss	Return loss			Return loss variation
				PC、 UPC	APC		PC	UPC	APC	
A	Before test	≤ 0.35		≤ 0.35	≤ 0.45		≥ 45	≥50	≥60	
B	Interchangeability test	≤ 0.5		≤ 0.5	≤ 0.6		≥ 43	≥48	≥58	
C	Mechanical durability	≤ 0.5	≤0.2	≤ 0.5	≤ 0.6	≤0.2	≥ 43	≥48	≥58	≤5
D	Tensile test	≤ 0.5	≤0.1	≤ 0.5	≤ 0.6	≤0.1	≥ 43	≥48	≥58	≤5
E	High temperature test	≤ 0.5	≤0.2	≤ 0.5	≤ 0.6	≤0.2	≥ 43	≥48	≥58	≤5
F	Low temperature test	≤ 0.5	≤0.2	≤ 0.5	≤ 0.6	≤0.2	≥ 43	≥48	≥58	≤5
G	Damp heat test	≤ 0.5	≤0.2	≤ 0.5	≤ 0.6	≤0.2	≥ 43	≥48	≥58	≤5
H	Salt spray test	≤ 0.5	≤0.2	≤ 0.5	≤ 0.6	≤0.2	≥ 43	≥48	≥58	≤5
I	Transportation test	≤ 0.5	≤0.1	≤ 0.5	≤ 0.6	≤0.1	≥ 43	≥48	≥58	≤5

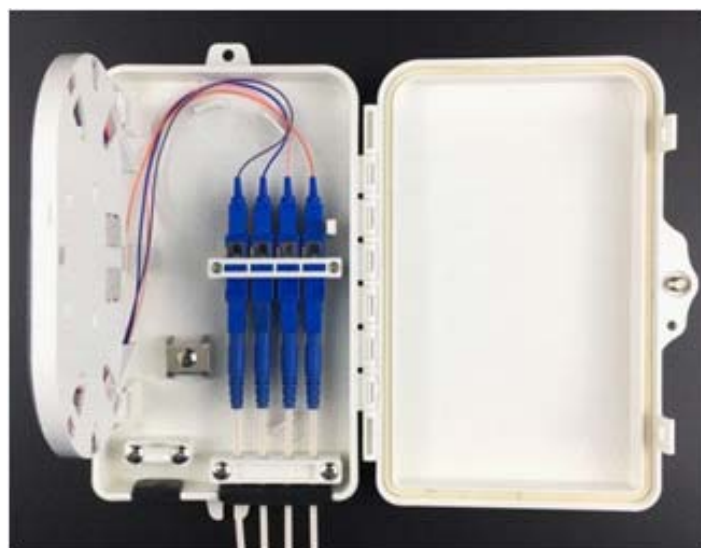
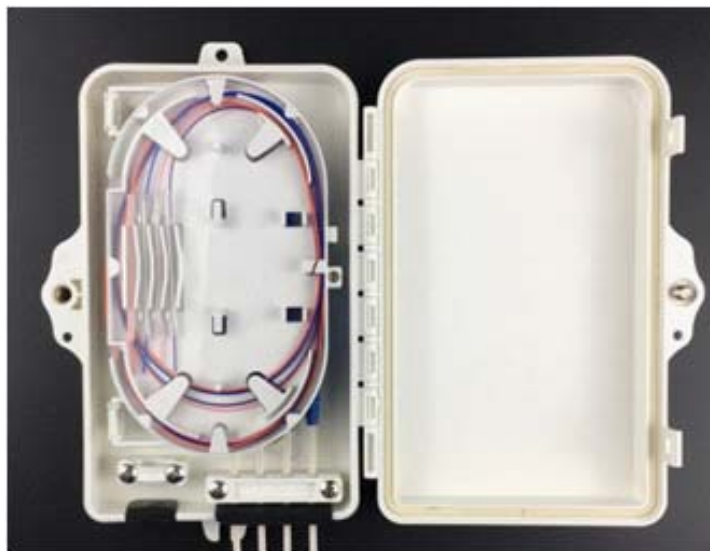
Geometrical dimensions of end face of optical fiber connector

Pin diameter (mm)	radius of curvature (mm)		Apex offset (μm)	Optical fiber sag (nm)	APC angle (°)
φ 1.25	PC、UPC	7~25	≤50	-100 ~ +100	—
	APC	5~12			8±0.2
φ 2.5	PC、UPC	10~25	≤50	-100 ~ +50	—
	APC	5~15			8±0.2

1, ODP (4 core)

Model: PT-FB-4A/B (A: wall mounted, B: pole mounting)

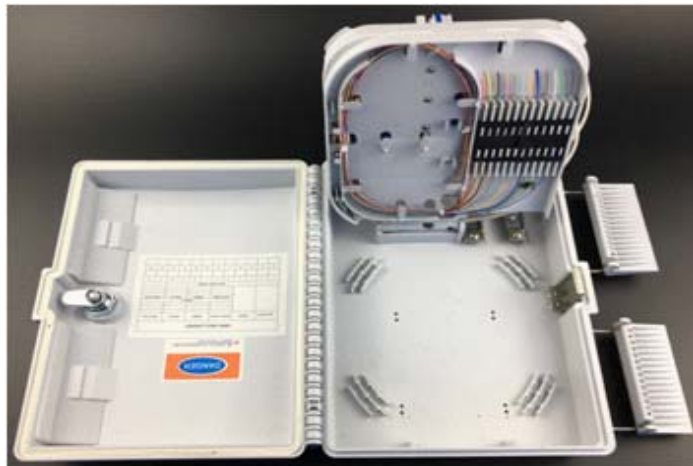
Dimensions: 186 x 116 x 41 (mm)



2, ODP (8/12 core)

Model: PT-FB-12A/B (A: wall mounted, B: pole mounting)

Dimensions: 250 x 190 x 72 (mm)



3, ODP (16 core)

Model: PT-FB-16A/B (A: wall mounted, B: pole mounting)

Dimensions: 292 x 218 x 83 (mm)



4, ODP (32 and 48 core)

Model: PT-FB-48A/B (A: wall mounted, B: pole mounting)

Dimensions: 420*320*125mm

