

Technical Specification

Technical Specification
Optical Fiber Cable Distribution Box
16 CORE

Technical Specification

Contents

1. General.....	2
1.1 Description.....	2
1.2 Standards Comply.....	2
1.3 Applications Environment.....	2
2. Characteristics.....	3
2.1. Advanced structure design, easy operation and reasonable routing.....	3
2.2. Material: PP.....	3
2.3. Moisture proof, waterproof, dust-proof, anti-aging.....	3
2.4. Protection level up to IP68.....	3
2.5. 1 oval optical cable entry, 2 branch optical cable entries and 16 pcs of household.....	3
2.6. Installation method: pole-mounted, aerial-mounted, wall-mounted.....	3
3. Specifications.....	3
3.1 Mechanical specifications.....	3
4. Configuration.....	4
4.1 Main optical parameters.....	4
5. Product Picture.....	4
5.1 Product cable ways:.....	4
5.2 Splicing tray.....	5
5.3 Accessories.....	6
6. Environmental characteristics.....	8
7. Installation:.....	8
7.1. Wall-mounted installation.....	8
7.2. Pole-mounted installation.....	8
7.3. The overhead structure.....	9
8. Package.....	9

Technical Specification

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	Classification
16 CORE	Optical fiber cable distribution box



Appearance of 16 CORE

1.2 Standards Comply

The product 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)

Technical Specification

2. Characteristics

- 2.1. Advanced structure design, easy operation and reasonable routing.
- 2.2. Material: PP .
- 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 16 pcs of household
- 2.6. Installation method: pole-mounted, aerial-mounted, wall-mounted.

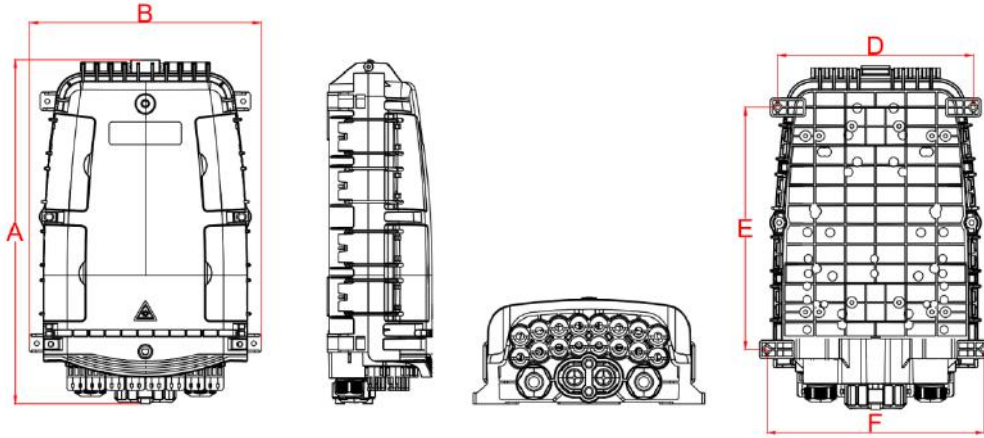
3. Specifications

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 16 pcs of household	
Fusion capacity(Max)	48	Tray A ,12x4=48, 2 layers of heat-shrinkable splice protection sleeve.
	64	Tray B, 8x8=64, 1 layer of heat-shrinkable splice protection sleeve.
	96	Tray C, 12x8=96, 1 layer of heat-shrinkable splice protection sleeve.
	96	Tray D,Tray E, 24x4=96, 2 layers of heat-shrinkable splice protection sleeve.
	108	MAX: 4D+1C=96+12=108
Micro PLC Splitter	1x2	Splitter size : 60x7x4mm. Can be installed in type A and type E splicing tray, 1 PC per splicing tray.
	1x4	
	1x8	
	1*16	Splitter size : 60x12x4mm. Can be installed in type A-1, and type E-1 splicing tray, 1 PC per splicing tray.
Into the largest cable diameter (mm)	≤18	* Note: Provide the type and diameter of the optical cable when purchasing, to matching the appropriate sealing plug to ensure the
Maximum size of bifurcation hole (mm)	≤18	

Technical Specification

		sealing performance.
Cable outlet size(mm)	2*3~∞7	
IP protection level	IP68	
Flammability	HB(Conventional)	can be customized according to requirements
Neutral salt spray test (NSS)	48 h	



4. Configuration

4.1 Main optical parameters

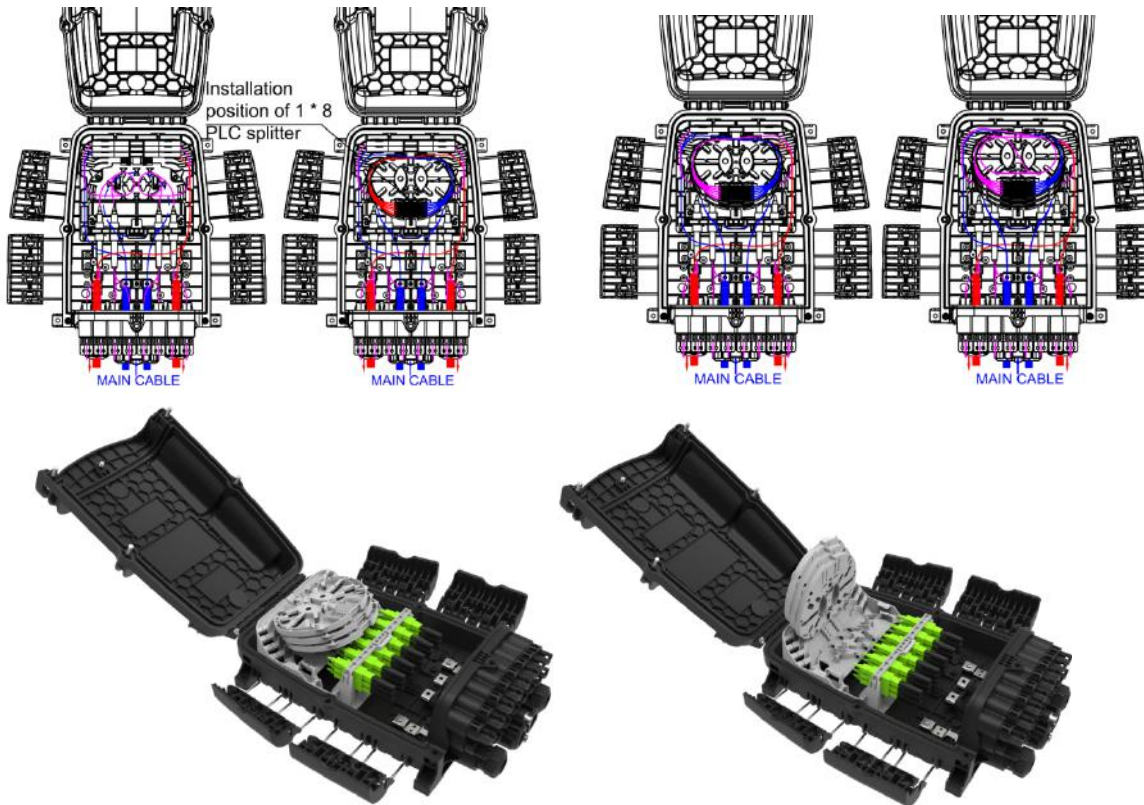
Splitter or pigtail	IL(dB)	RL(dB)	IL(dB)	Test method
	Pigtail/Splitter		Distribution box	
Pigtail-SC/APC-00-SM-SX(1C1F)-OD0.9MM-PVC-G657A2-Cable Color(Default)-Indoor-RoHS-1.5m	≤0.3	≥55dB	≤0.5	IL: IEC61300-3-4 Method B RL: IEC61300-3-6 Method 1
1x2 PLC Splitter, with SCAPC connector	≤4.0	≥55dB	≤4.2	
1x4 PLC Splitter, with SCAPC connector	≤7.4	≥55dB	≤7.6	
1x 8 PLC Splitter, with SCAPC connector	≤10.5	≥55dB	≤10.7	
1x 16 PLC Splitter, with SCAPC connector	≤13.5	≥55dB	≤13.7	

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

5.Product Picture




5.1Product cable ways:

Technical Specification







16 CORE routing diagram

5.2 Splicing tray




Item	Splicing tray A	Splicing tray B	Splitter tray A-1
Dimensions(H*W*D, mm)	134*104*8	134*104*4	134*104*8
Net weight (kg)	0.021	0.015	0.021
Picture			
Color	RAL7035	RAL7035	RAL7035
Material	PC+ABS	PC+ABS	PC+ABS
Splicing capacity of a tray(cores)	12 (2 layers of heat shrinkable protective sleeve)	8 (1 layer of heat shrinkable protective sleeve)	6 (2 layers of heat shrinkable protective sleeve)
Splitter capacity of a tray(PCS)	1 (PLC 1X2, 1X4, 1X8, 0.9mm fiber,60x7x4mm)	/	1 (PLC 1X16, 0.9mm fiber,60x12x4mm)
Maximum(PCS)	4	8	4
Default(PCS)	3	/	/

Technical Specification







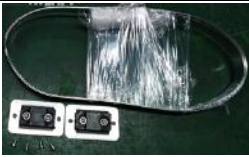


Note: 1. The above trays can be mixed according to requirements.
 2. Configuration rules: 1A=2B=2C=1D=1E
 3. The types of fiber discs are increasing continuously

Item	Splicing tray C	Splicing tray D	Splicing tray E	Splicing tray E-1
Dimensions(H*W*D, mm)	136 * 104 * 4	136 * 104 * 8	135 *125*8	135 *125*8
Net weight (kg)	0.018	0.024	0.033	0.033
Picture				
Color	RAL7035	RAL7035	RAL7035	RAL7035
Material	PC+ABS	PC+ABS	PC+ABS	PC+ABS
Splicing capacity of a tray(cores)	12 (1 layer of heat shrinkable protective sleeve)	24 (2 layers of heat shrinkable protection sleeve)	24 (2 layers of heat shrinkable protection sleeve)	18 (2 layers of heat shrinkable protection sleeve)
Splitter capacity of a tray(PCS)	/	/	1 (PLC 1X2, 1X4, 1X8, 0.9mm fiber,60x7x4mm)	1 (PLC 1X16, 0.9mm fiber,60x12x4mm)
Maximum(PCS)	8	4	4	4
Default(PCS)	/	/	/	/
Note: 1. The above trays can be mixed according to requirements. 3. Configuration rules: 1A=2B=2C=1D=1E 3. The types of fiber discs are increasing continuously				

5.3 Accessories

No.	Part name	Reference picture	Unit	Quantity	Remark
1	Users' manual	/	pcs	1	EN
2	Splitter test report	/	pcs	1	EN
3	Key		pcs	1	"D" type
4	Heat-shrinkable protection sleeve		pcs	16	L=45mm,Optional as customer's request
5	Nylon cable tie		pcs	10	3x100mm

Technical Specification

6	Bare fiber protection tube		pcs	1	OD5mm x 50cm
7	Wall-mounted kit		set	1	Optional as customer's request. (Expanded plastic plug $\Phi 7.5 \times 40$ mm, Phillips self-tapping screws M5x40mm.)
8	Hoop		pcs	2	$\varnothing 13-19$ mm
9	Drop cable sealing nut wrench		pcs	1	
10	Optical cable entrance sealing plug		pcs	2	
11	Brach cable sealing nut wrench		pcs	1	
12	M6 Allen key		pcs	1	M6
13	Pole-mounted kit-A		set	1	Optional as customer's request
14	Pole-mounted kit-B		set	1	Optional as customer's request
15	Aerial-mounted kit		set	1	Optional as customer's request

Technical Specification

16	Drop cable storage tray		pcs	2	Optional as customer's request
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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 $\Phi 7.5 \times 40$, 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

Technical Specification

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.(Pic 6)



The overhead structure

8.Package

1PC in a bubble bag, 400*480mm ;

1PC in a small carton, 385*260*125mm, gross weight is 1.8kg ;

8PCS in a big corrugated carton, 540*405*540 mm, gross weight is 25kg.