

# Indoor 4-Port SC/LC Simplex Splicing & Patching Box (Desktop)

 [fiberhk.com/product\\_fhk/indoor-4-port-sc-lc-simplex-splicing-patching-box-desktop/](https://fiberhk.com/product_fhk/indoor-4-port-sc-lc-simplex-splicing-patching-box-desktop/)



## Indoor 4-Port SC Simplex Splicing & Patching Box

Sales No. FT-I-4-J-2501

Manufacturer: FiberHK

Port Capacity: 4 Ports

Protection Rating: IP30 (Indoor)

## Robust Fiber Termination Solutions

FHK designs and manufactures high-density Fiber Termination Boxes (FTBs) engineered for reliable network distribution and protection. Built with durable, weather-resistant materials, our termination boxes provide secure splicing, patching, and storage for fiber optic cables in demanding indoor and outdoor environments. Each unit undergoes rigorous testing to ensure optimal performance and longevity.

### Rigorous Testing

IEC-compliant optical performance validation

### Traceable Quality

Unique ID with certified test reports

### Standardized Production

ISO-certified manufacturing processes

## Features - Desktop (D)

- FTTX Access: FTTB/C/H network termination.
- Telco Networks: Carrier-grade deployment.

- CATV Networks: Fiber optic video distribution.
- Enterprise LANs: Backbone/fiber cabling.
- J-Type Function: Splicing + adapter integration.
- Compact Design: Space-saving mini-network solution.

## Applications - Desktop (D)

- Splice/Patch Separation: Dedicated compartments for easy expansion.
- Robust Housing: Engineering plastic, aesthetic design.
- Flip Tray Structure: Tool-free access for maintenance.
- Splitter Ready: Supports tube-type PLC/FBT splitters.
- 4-Port Capacity: Terminates drop cables (SC/LC).
- IP30 Rated: Indoor environmental protection.

## Specification for Fiber Terminal Box

Category	Parameter	Specification	Notes
<b>Basic Identification</b>	Model Number	FT-D-4-J-2501	
	Product Type	Desktop Fiber Termination Box	IEC 61753-1
	Customization Options	Port count, Adapter type, Color	Customer Requirements
<b>Physical Specs</b>	Dimensions (H×W×D)	100×80×30 mm	
	Weight	66.7 g	
	Housing Material	Flame-Retardant ABS/PC Alloy	UL 94
	Color	Off-White (RAL 9010)	ISO 11664
<b>Optical Performance</b>	Insertion Loss	≤0.2 dB per connection	IEC 61300-3-4
	Return Loss (UPC)	≥55 dB	IEC 61300-3-6
	Adapter Type	SC/UPC Simplex (Ceramic ferrule)	IEC 61754-4
<b>Capacity &amp; Configuration</b>	Adapter Capacity	4 ports	SC simplex / LC duplex compatible
	Fiber Count	4 fibers (SC) 8 fibers (LC)	Per port fiber mapping
	Storage Tray	8-channel fiber organizer	YD/T 2150-2010

Category	Parameter	Specification	Notes
<b>Environmental Ratings</b>	Operating Temperature	-20°C to +70°C	IEC 60068-2-1/2
	Storage Temperature	-40°C to +85°C	IEC 60068-2-78
	Protection Rating	IP30 (Indoor use only)	IEC 60529
	Relative Humidity	5% to 95% non-condensing	IEC 60068-2-56
<b>Mechanical Durability</b>	Mating Cycles	>500 cycles (per adapter)	IEC 61300-3-28
	Cable Retention Force	≥40N axial pull	IEC 61300-2-22
	Impact Resistance	1m height (6 surfaces ×1)	IEC 61300-2-2
<b>Compliance &amp; Certification</b>	Safety Certifications	CE, RoHS, REACH	EU Directives
	Quality Management	ISO 9001:2015 Certified	ISO Certification
	Flammability Rating	UL94 V-0	UL Standard

1. Excludes splicing protection features, Designed for direct connectorized applications.
2. 8 Independent Routing Channels, Isolated pathways for individual fibers.
3. Serpentine Routing with Bend Radius Control, Minimum 30mm bend radius maintained.

## Standard Configuration List (Optional)

Item	Details	Applicable Products
<b>Adapters</b>	SC Simplex×n	By port count
	LC Duplex×n	By port count
	MINI Waterproof Adapters	FT-O-*-MIN
<b>Splitter Module</b>	1:8 PLC Splitter	FT-O-8-P-J-MIN
	1:16 PLC Splitter	FT-O-16-P-J-MIN
	1:24 PLC Splitter	FT-O-24-P-J-SC/LC
<b>Splicing Accessories</b>	Fusion Tray	All series

Item	Details	Applicable Products
	Heat Shrink Tubes×n	By port count
	Cable Organizers×n	All series
<b>Mounting Kit</b>	Wall Mount Bracket	FT-O/R series
	Rack Ears	FT-R series
	Expansion Screw Set	All series
	Cable Ties	All series
<b>Sealing Components</b>	Waterproof Mastic	FT-O series
	Sealing Grommets×	FT-O series
<b>Tools</b>	Fiber Optic Cleaning Pen	
	Cable Slitter	

## Fiber Terminal Box Installation Specifications

Parameter	Wall-mount (W)	Desktop (D)	Rack-mount (R)	Outdoor (O)
<b>Mounting Method</b>	Wall fixation	Free-standing placement	19" rack installation	Pole/wall dual-mount
<b>Included Hardware</b>	Expansion screws (4x) Wall plugs Mounting template	Anti-slip rubber pads (4x) Desktop organizer clip	Rack ears (pair) M6 cage nuts Rack screws	Stainless steel pole clamp Hex bolts set Waterproof sealing kit
<b>Tool Requirements</b>	Electric drill 6mm masonry bit Hammer Screwdriver	None required	Phillips screwdriver Rack adjustment tool	Adjustable wrench Torque driver (15Nm)
<b>Installation Time</b>	15-20 minutes	Instant	10-15 minutes	25-30 minutes
<b>Weight Capacity</b>	Max 5kg per mounting point	Max 3kg total	1U space (48 ports max)	Wind load 150km/h
<b>Special Notes</b>	Minimum wall thickness: 100mm	Avoid dire	Requires standard 19" rack depth ≥300mm	Concrete pole Ø50-150mm compatible

## Code Comparison Table

Field	Code/Description	Additional Notes
<b>Usage Environment</b>	W (Wall-mount)	Wall Installation Design
	D (Desktop)	Compact design ( $\leq 8$ ports)
	R (Rack-mount)	19" rack installation
	O (Outdoor)	Includes waterproof/armored design, compliant with IEC 61300-2-22
<b>Port Capacity</b>	Numeric (Actual port count)	Standard values: 1/2/4/8/12/24/48 Extended values: 96 (use actual number for >48 ports)
<b>Functional Features</b>	S (Splicing Only)	Only includes splice tray
	P (With PLC Splitter)	Split ratio 1:N (N=2/4/8/16/24/32)
	J (Splicing + Adapters)	Pluggable adapter panel
	A (Adapters Only)	Adapter panel without splicing capability
	+F (Enhanced Fiber Storage)	Increase Fiber Storage Space By 30%
	+D (Drawer Type Design)	Slide-out tray for maintenance
<b>Adapter Type</b>	SC (SC Simplex)	Standard type
	LC (LC Duplex)	High-density type
	MPO (MPO Multi-fiber)	12/24 fibers
	MIN (MINI Waterproof)	Huawei compatible ( $\varnothing 8.5 \times 20$ mm)
	SC/LC (Hybrid Interface)	Supports dual types of adapters
<b>Special Design</b>	+K (Armored)	Crush resistance >500N/10cm
	+L (Lightning Protection)	Grounding terminal, insulation resistance $\geq 2 \times 10^4$ M $\Omega$
	+H (High Density)	Supports 48 ports in 1U space

## Product Features Comparison

<b>Feature Category</b>	<b>Feature Description</b>	<b>Applicable Products</b>
<b>Sealing Design</b>	Dual O-ring Sealing Structure	FT-O series
	Waterproof Breather Valve	FT-O-*-MIN
	Anti-rodent Material	ABS + PC composite
<b>Splitting Function</b>	Plug-in PLC Module	P-type (Splitter)
	PLC Planar Waveguide Splitter	P-type (Splitter)
	Split Uniformity: $\pm 0.5\text{dB}$ (Full Band)	P-type (Splitter)
<b>Easy Maintenance</b>	Tool-free Opening	FT-D-*
	Modular Design	FT-O-24-P-J-SC/LC
	Front/Rear Operation Zones	FT-R series
<b>Special Protection</b>	Lightning Protection Terminal	+L type
	Stainless Steel Armoring	+K type
	Explosion-proof Design	FT-O-24-S

## Compatible products - Adapter



### [LC Duplex Adapter-Without Flange-\(Symmetrical\)](#)

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### [LC Duplex Adapter-Without Flange-\(Symmetrical\)-\(1-PC\)](#)

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### [LC Duplex Adapter-Without Flange-\(Outward Shutter\)](#)

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### [LC Duplex Adapter-Without Flange-\(Asymmetric\)](#)

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### [SC Simplex Adapter-Without Flange-\(Internal Shutter\)](#)

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### [SC Simplex Adapter-Without Flange](#)

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### **Compatible products - Patch Cords & Pigtails**

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### **Patchcord Duplex SC/UPC-ST/UPC**

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[Product Specification \(PDF\)](#)

[PRODUCT COMPLIANCE STATEMENT](#)

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