

General Description

The PDR-FDB24B Fiber Distribution Box is a compact, rugged termination enclosure designed for deployment at building premises — residences, offices, and commercial sites — within FTTx access networks. It supports straight-joint, branch, and pass-through connectivity, accommodating up to two 1×8 LGX splitter modules and up to 24 SC-type adaptors via an optional patch panel. Separate storage channels for drop cables and fiber loose tubes prevent overlapping, enabling fast fault identification and maintenance in independent cable routes. The enclosure is rated IP65 for indoor and outdoor use, manufactured from high-quality engineering plastic for a lightweight yet durable build, and features a front-access design with a safe-shaped lock and an opening angle exceeding 120 degrees for convenient installation and servicing.



Key Features

- Accommodates 1×4, 1×8, 1×16, 2×4, 2×8, and 2×16 PLC steel tube or LGX splitter modules
- IP65 protection class — suitable for both indoor and outdoor environments
- Supports wall mounting and pole mounting for flexible field deployment
- 24 drop-cable exit ports with dedicated separation of drop cables and fiber loose tubes
- Individual link testing possible without disturbing other subscriber connections
- Safe-shaped lock with front-access opening angle exceeding 120 degrees for easy maintenance
- Safe bend radius maintained throughout — compliant with ITU-T G.652 fiber standards
- Compatible with Optical Micro cables and Aerial ADSS cables
- Lightweight engineering plastic construction — total weight 1.36 kg
- Operating temperature range: –40°C to +60°C for harsh environmental conditions

PDR VIDEOTRONICS (INDIA) PRIVATE LIMITED

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Technical Specifications

Parameter	Specification
Model	PDR-FDB24B
Dimensions (L × W × D)	320 × 275 × 105 mm
Weight	1.36 kg
Material	High Quality Engineering Plastic
Protection Class	IP65
Mounting Options	Wall Mount / Pole Mount
Opening Angle	> 120°
Cable Diameters Supported	4 – 7 mm drop cable
Total Optical Splice Capacity	24
Maximum Cable Entries	2
Mid-Span Port	1 feeder cable entry (2 ports), 1 entrance port + 1 reserved
Drop Cable Exit Ports	24 ports
Branching & Distribution	2 in — 24 out
LGX Splitter Modules	2 × (1×8)
Supported Splitter Ratios	1×4, 1×8, 1×16, 2×4, 2×8, 2×16 PLC / Steel Tube
Splice Tray	Rear panel of box integrates splice function
No. of Splices per Tray	24
Fiber Storage Length	1.5 m
Operating Temperature	–40°C to +60°C
Storage Temperature	–25°C to +55°C
Relative Humidity	95% max (at +30°C)
Atmospheric Pressure	62 – 101 kPa

Applications

- FTTx (FTTH / FTTB / FTTC) last-mile access network splitter distribution points
- Telecom carrier and broadband service provider outdoor cabinet installations
- Pole-mounted and wall-mounted fiber distribution in urban and rural deployments
- Multi-dwelling unit (MDU) fiber termination and subscriber connectivity hubs
- CATV and HFC network fiber node termination and branching points
- Campus LAN and enterprise fiber distribution for structured cabling systems

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Ordering Information

Ordering Example: The PDR-FDB24B is a fixed-configuration model — quote **PDR-FDB24B** as the base unit. When placing an order, list any optional accessories required alongside the base model, for example: *PDR-FDB24B + PLC Splitter 1×8 (×2) + SC Adapter (×24) + Wall-Mount Fitting.*

Standard Package Contents

Item	Quantity
Box Bottom	1 pc
Box Cover (with protective membrane)	1 pc
Drop Leaf / Adapter Panel / PLC Splitter Panel	1 set
Cable Holder	1 set
Handle for Drop Cable	2 pcs
Ring for Winding Fiber	1 pc
Grounding Fits	1 pc
Un-cutting Fits	1 set
Sealing Part for Drop Cable	1 pc
Sealing Part for Box Body	1 pc
Lock	1 set
Nylon Cable Tie (3 × 100 mm)	10 pcs
Splice Protection Tube (L = 60 mm)	24 pcs
Protective Tube for Bare Fiber (0.5 m)	1 pc
Instruction Manual	1 pc

Optional Accessories (specify at time of order)

Item	Quantity
PLC Splitter 1×8	Up to 2 pcs
PLC Splitter 1×16	Up to 1 pc
SC Adapter	Up to 24 pcs
Pigtail	Up to 24 pcs
Wall-Mount Fitting	1 set
Pole-Mount Fitting	1 set

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