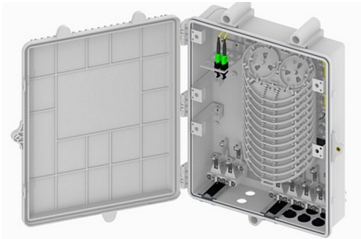# FLX-ODN-FDC

Base Product

FLX™ ODN FDC Fiber Distribution Cabinet, Plug and Play approach to FTTX ODN build

FLX™ ODN non-hardened terminals are designed for FTTX and enterprise customer connectivity using advanced connectorized technology. This eliminates field splicing for faster deployment, improves time to market, and simplifies planning and O&M activities. The solution is flexible, modular, and scalable. It uses 12-fiber MPO pre-terminated tails and internal cables for easy, fast deployment without splicing, using standard connectors. CommScope provides ADSS and Figure-8 cables with G.652 or G.657 fibers for distribution network builds. It connects primary and secondary splitter locations using standard SC/PC or SC/APC connectors.

The FLX™ ODN Fiber Distribution Cabinet (FDC) is a primary splitter (S1) enclosure that can house multiple S1s. It connects OLT with the rest of ODN through the primary S1 splitter. The FDC also facilitates trunk cable splicing and storage of loose fiber for deeper FTTH network penetration. The primary Splitter S1 is a PLC Tube type splitter with its output terminated in a standard 12F MPO. The S1 is available in 1:8 or 2:8 splitter ratio. The splitter output of 8 fibers is augmented with 4 extra fibers. This allows coexistence of various network applications and expansion into service areas. This uses the same ADSS or Fig 8 distribution cable tail, saving multiple distribution cable runs on the same path. Each FDC has 12 trays to handle primary splitters S1 and 4 extra fiber splicing individually. Each tray can handle 12 splices and 1 PLC splitter, and can be used for normal splicing applications. The FLX™ ODN FDC has a 12-port patch plate to terminate S1's MPO connectors and facilitate network monitoring without affecting other live networks. The FLX™ ODN FDC supports up to 6 distribution cable runs in 6 directions using drop ports. It supports up to 1920 Home Pass from a single FLX™ ODN FDC. It supports cable diameters from 3 mm to 15 mm for input trunk cables and distribution cables. These enclosures are designed for indoor and outdoor installations with wall and pole mounting features.

Product Classification

Regional Availability	Asia	Australia/New Zealand	India
Product Type	Access box
Product Series	FLX-ODN

General Specifications

Adapter Ports, quantity	12
Cable Capacity, Drop	10 Round 3.0–6.0 mm (0.12–0.24 in)
Cable Capacity, Feeder	4 Round 3.0–15.0 mm (0.12–0.59 in)
Cable Exit Location	Bottom
Cable Sealing Type	Compressed rubber
Enclosure Color	Gray
Front Cover Type	Hinged with lock
Interface	MPO Female	MPO Male	SC/APC	SC/UPC
Lock Type	Key lock, special

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FLX-ODN-FDC

Mounting	Wall/Pole Mount, mounting kit included
Splice Tray Included, quantity	12
Splicing Capacity, maximum	144
Splicing Type	Heat shrink, single fiber fusion
Splitter Type	1 x 4 (dual) | 1 x 8 | 2 x 8
Splitter, quantity	6

Dimensions

Height	380 mm | 14.961 in
Width	320 mm | 12.598 in
Depth	95 mm | 3.74 in

Material Specifications

Enclosure Material Type	ABS

Optical Specifications

Fiber Type	G.652.D | G.657.A1/A2
Attenuation Cable Coefficient, maximum	0.30 dB/km @ 1550 nm | 0.40 dB/km @ 1310 nm

Environmental Specifications

Operating Temperature	0 °C to +65 °C (+32 °F to +149 °F)
Storage Temperature	0 °C to +65 °C (+32 °F to +149 °F)
Environmental Space	Indoor/Outdoor
Flammability Rating	UL 94 V-1
Qualification Standards	IEC 60529, IP55
UV Resistance	UV stabilized

Packaging and Weights

Included	Enclosure (1) | Mounting hardware (as per BOM)
Packaging quantity	1
Packaging Type	Box | Carton
Weight, net	1 kg | 2.205 lb

Regulatory Compliance/Certifications

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FLX-ODN-FDC

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted

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