

# FTTx



A Furukawa Company

## **ORBITAL™** [Fiber Distribution Cabinet] **FDC 288**

### **Innovative Fiber Distribution Cabinet Specifically Designed for FTTx Splitter Applications**

In existing neighborhoods or “over-build” situations where subscription rates are uncertain and random, centralizing optical splitters within a Fiber-to-the-X (FTTx) network can enable operators to defer electronic and passive component costs.

Traditional “block matrix” splitter patching systems require complex routing of many long jumpers in a confined space through confusing routes, often resulting in a tangled mess as customers are randomly connected. OFS’ breakthrough innovation makes traditional splitter management designs obsolete, enabling easier subscriber provisioning and increased reliability in high performance FTTx networks.

The new ORBITAL™ Fiber Distribution Cabinet (FDC) 288 solves the usual routing problems with the new

and innovative ORBITAL Fiber Management System. By combining the radial fiber routing with our components’ superior optical performance, the ORBITAL FDC 288 is the next generation in FTTx Splitter management systems.



*The ORBITAL FDC 288 features a revolutionary, radial fiber distribution configuration.*

### **Product Description**

Designed to serve up to 288 homes, the ORBITAL Cabinet features OFS’ unique splitter module incorporating full spectrum, low loss PLC splitters, while being fitted with low loss, high performance LC and MPO connectors. OFS’ MPO fannout jumpers are easily connected from the splitter modules to the subscriber ports, and use OFS’ bend-insensitive AllWave® FLEX Zero Water Peak (ZWP) fiber to minimize bending loss. In a dramatically improved fiber distribution design, the ORBITAL FDC 288 routes all subscriber fibers from the splitter modules to a central cabinet, then to subscriber ports arranged in a circular array surrounding the cabinet.



## Key Product Features:

### Radial Distribution:

- Serves up to 288 homes
- Provides short fiber runs
- Minimizes fiber routing congestion
- Reduces fiber parking for unused leads

### MPO 1x32 Splitters

- Creates a high-density, low-loss splitter solution
- Universal face design fits many legacy LGX® solutions
- Scalable usage with MPO to LC fanouts

### Specialty OFS Cabinet

- Full front access solution
- Pre-connectorized cable installed for rapid deployment
- Rear cable storage vault eliminates underground vault and closure
- Slab and pole mountable
- NEMA4 design.

### Attributes

#### Physical Specifications:

- Cabinet: 36" H x 24" W x 18" D

#### Physical Makeup:

- Easy-to-remove swing-out equipment mounting frame
- Front access door and rear access panel (can be padlocked for security)
- Pad mounting skirt for easy installation
- Removable rear panels allow the cabinet to slide over conduit, facilitating installation
- Aluminum construction and powder coat paint for long life cycle
- Radial configuration ensures intuitive fiber path routing
- Intuitive numbering system on front and rear of faceplate for easy identification.

ORBITAL FDC 288  
shown in pole mount  
arrangement



### Benefits

#### Easier and faster parking of unused splitter connections:

- The ORBITAL FDC 288's modular design allows incremental usage of splitters that helps to reduce the amount of congestion inside the cabinet
- Extensive and easily-accessible parking - up to 77% less parking required due to MPO fanout (Please note this: when a fanout is added for a single subscriber, 7 connectors must be parked. when a splitter module is added for a single subscriber, 31 connectors must be parked)
- It can maximize splitter and OLT usage

#### More environmentally friendly cabinet size:

- Its small cabinet size is less visually disruptive to the environment and surrounding areas
- Smaller volume and height of any 288 fiber splitter cabinet available today in the market

#### Excellent optical performance:

- Best-in-class LCA connectors with lowest loss
- It uses thermally stable PLC devices from Furukawa Electric

#### Available with more options:

- Pad or Pole mounting – both easy to handle, place and use
- Choose the cable
- Choose the connector
- Partial configurations can be built
- Over provisioned feeder can be added (please see below in the cross connect note)

#### Easier Splitter Upgrade:

- Splitter module with connector interface allows for potential splitter/optical path upgrades with minimal effort and/or disruption

#### Unique Integrated Cross/Inter-Connect System:

- Unique optional patch panels enable easy provisioning to up to 96 businesses (LC ganged adapter) requiring dedicated connections.

For additional information please contact your sales representative. You can also visit our website at <http://www.ofsoptics.com> or call 1-888-fiber-help.

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