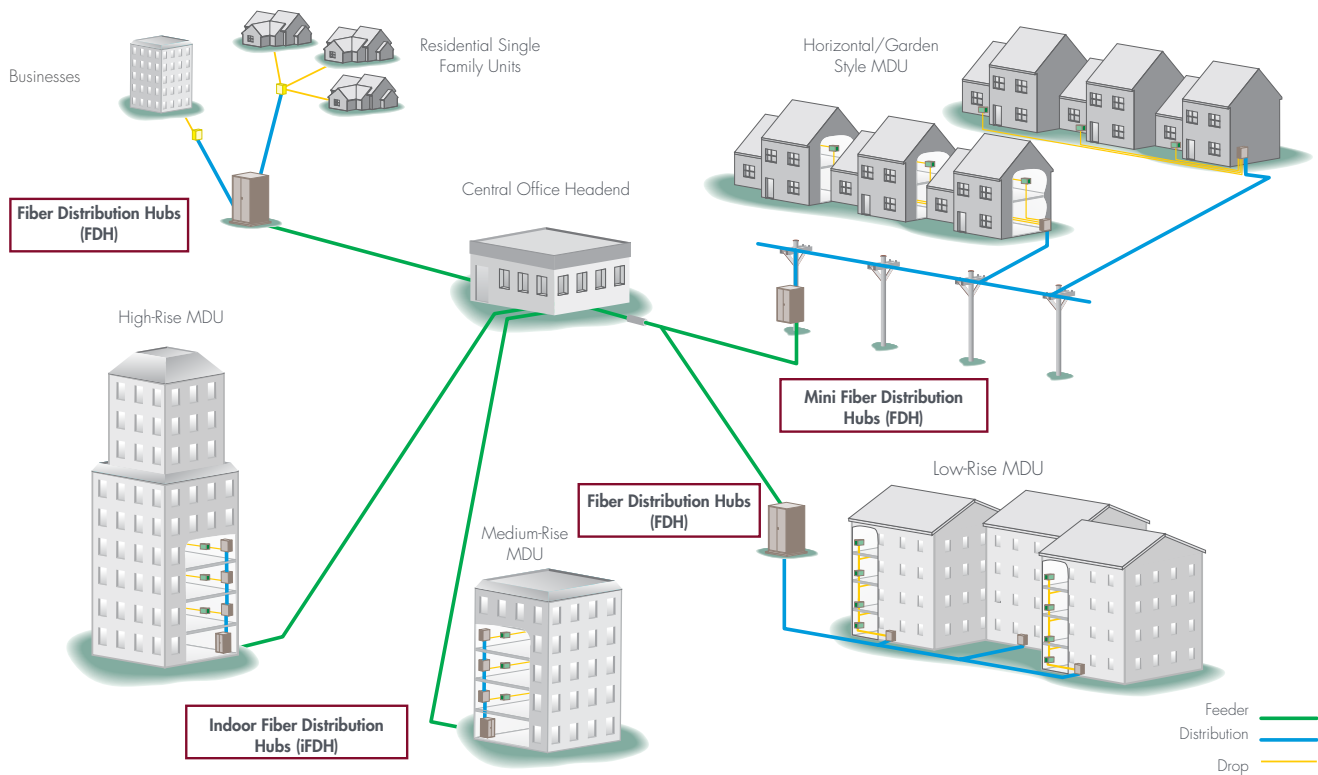




CenturyLink Quick Reference Guide

Fiber Distribution Hub (FDH) Product Solutions

CommScope's family of Fiber Distribution Hub 3000 (FDH) solutions reflects our expertise in hub distribution management with innovative products that ensure cable management, bend radius protection at every point in the hub application. High-density fiber hubs, clear routing paths, slack storage solutions, easy connector access and simplified integration of optical components all optimize the value of the optical network.



Outdoor Fiber Distribution Hub (FDH) 3000

Ground Mount FDH 3000 Cabinets are designed to be installed over a hand hole or concrete pad. All three sizes of ground mount cabinets include 100' feeder and distribution stub cables that exit downward through the base of the cabinet. Each ground mount cabinet is shipped with a factory installed 6" riser attached to the cabinet bottom.



Ground Mount Small Cabinet



Features and Benefits

- Unique "swing-out frame" design allows for easy maintenance and access to back of distribution panels and cables
- Three-point latch provides weather-tight seal
- Angled bulkhead panels eliminate 90° bends and assists technician with routing
- Integrated slack storage spools allow for storage of excess fiber while providing positive bend radius control
- Dust-cap friendly Parking-Lot®; conveniently stores splitter output ports not in service
- 288 terminations: up to 72-fiber Parking-Lot positions;
- 432 terminations: up to 144-fiber Parking-Lot positions;
- Six-inch spacer/riser included with spacer/riser and ground mount cabinets
- Design allows for standardized splitter modules and accessories across all cabinet sizes
- Common "mini plug & play" splitter module with common output length; allows for true plug and play functionality
- Splitter modules easy to insert and remove without affecting adjacent splitters
- Discrete ground and cable location access; allows for locating wires without entry into the cabinet
- Re-skinable casing design; allows replacement of cabinet shell without break in customer service
- Extreme temperature tubing provides improved performance at high and low temperatures

Outdoor Fiber Distribution Hub (FDH) 3000

Ordering Information

Description	Distirbution Cable	Feeder Cable	Dist/Feeder Cable Type	Splitter Type	Part Number	CenturyLink Material Code
Small Cabinet (72-288 Fibers)						
72 Fibers	(1) 72-Fiber	12-Fiber	Single armor loose tube	(1) 1x32	FD3-AE072J1AGABP1	1083037
144 Fibers	(1) 144-Fiber	12-Fiber	Single armor loose tube	(1) 1x32	FD3-AE144J1AGBBP1	1083038
				None	FD3-AE144J00GBBP1	1102582
216 Fibers	(1) 72-Fiber, (1) 144-Fiber	12-Fiber	Single armor loose tube	(1) 1x32	FD3-AE216J1AGDBP1	1083039
288 Fibers	(2) 144-Fiber	24-Fiber	Single armor loose tube	(1) 1x32	FD3-AE288J1AGBBP2	1083040
				None	FD3-AE288J00GBBP2	1102583
Medium Cabinet (72-432 Fibers)						
360 Fibers	(1) 72-Fiber, (2) 144-Fiber	24-Fiber	Single armor loose tube	(1) 1x32	FD3-AG360J2AGDBP2	1083041
432 Fibers	(1) 72-Fiber	48-Fiber	Dielectric loose tube	None	FD3-AG432J00JABP4	1131397
	(3) 144-Fiber	24-Fiber	Single armor loose tube	(2) 1x32	FD3-AG432J2AGBBP2	1083042
Large Cabinet (72-864 Fibers)						
576 Fibers	(4) 144-Fiber	24-Fiber	Single armor loose tube	(2) 1x32	FD3-AJ576J2AGBBP2	1119535
864 Fibers	(12) 72-Fiber	48-Fiber	Single armor loose tube	None	FD3-AJ864J00GABP4	1193937
	(4) 216-Fiber	48-Fiber	Single armor loose tube	None	FD3-AJ864J00GCBP4	1229040

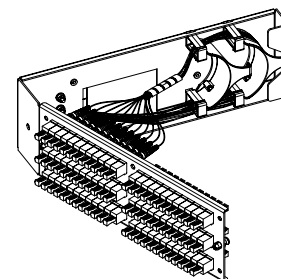
Growth Panel Options

For adding distribution panels to existing partially loaded cabinets.

Note: Large cabinet growth panels available for right side swing frame only

Ordering Information

Description	Part Number	CenturyLink Material Code
72-Position Panel SC/APC, Single Armor Loose Tube with 100' Stub	FD3MOD-072JGAB	1204521

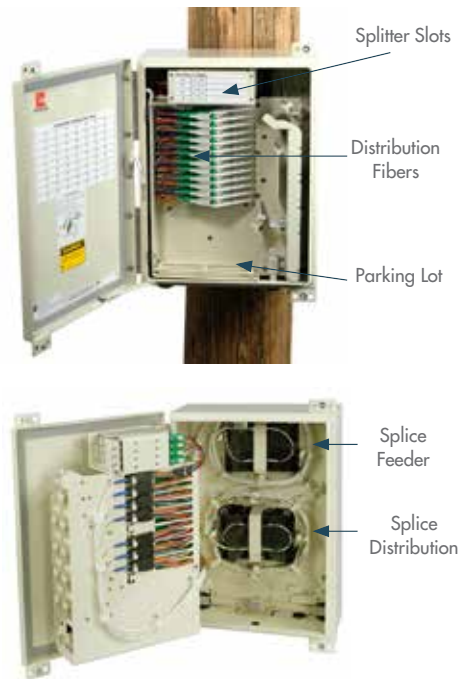


Mini Fiber Distribution Hub (FDH) 3000

The Mini Fiber Distribution Hub (FDH) 3000 is specifically designed to address the unique density requirements commonly found in multi-dwelling units (MDUs) and in rural fiber deployments. The Mini FDH 3000 provides maximum density termination capacity of eight feeder fibers and 72 distribution fibers and includes spliced or MPO connections for distribution and feeder ports.

Features

- Universal wall/pole bracket shipped with unit
- Accommodates up to 4 plug-and-play (PNP) splitters
- High density sliding pack circuit access
- Supports 12 to 72 fiber terminations
- The same Mini Fiber Distribution Hub will serve both indoor and outdoor applications
- Integrated splicing or MPO connections - splice version approved at CenturyLink
- Parking-Lot storage for 32 fibers
- Sealed bottom cable entry
- Small footprint (HxWxD): 19" x 13" x 8" takes up less space on poles and walls
- Uses the same splitter as all other OSP products



PNP Splitters



Swing Frame



Sliding Adapter Pack

Ordering Information

Description	Part Number	CenturyLink Material Code
Mini FDH 3000 Cabinets		
SC/APC, all splice configuration, 8-fiber feeder		
12-Fiber	FD3-AR012J00U00P8	1224566
24-Fiber	FD3-AR024J00U00P8	1224550
36-Fiber	FD3-AR036J00U00P8	1224552
48-Fiber	FD3-AR048J00U00P8	1224553
60-Fiber	FD3-AR060J00U00P8	1224554
72-Fiber	FD3-AR072J00U00P8	1224555

Note: Splice configurations use loose tube microcable pigtails for single fiber splicing.

For mass fusion splicing, the pigtails must be ribbonized.

Trays provided are suitable for either single fiber splicing or mass fusion splicing.

Hub in a Pedestal Fiber Distribution Hub (FDH)

Unlike traditional outdoor hubs which are typically deployed for neighborhoods of 144 homes or higher, the Hub in a Pedestal is right sized for rural landscapes numbering in size from 12 to 96 homes. Additionally, this field friendly unit is enclosed in a pedestal rather than in a metal cabinet and can be placed in the ground without pouring a concrete pad or installing a hand hole. This speeds deployment of fiber to the home and reduces overall project costs.

Features

- Fiber Distribution Hub that fits in a Proform 12 Pedestal
- First cost savings:
 - No permit
 - No hand hole
 - No pad required
- Up to 96 distribution F2 fibers
- Parking-Lot storage for up to 48 fibers
- Swing frame access to distribution fibers
- Six Plug and Play splitter slots to support (3) 1x32 with spare slots or (6) 1x16 splitters
- Uses same splitters as FDH 3000
- Splicing for F1 and F2 fibers on rear side
- One full size feeder tray for up to 24 fibers; four full size distribution trays for up to 96 fibers
- Kit available to integrate up to four hardened drop connections; saves cost and space of adding another pedestal for drops Barrier plates to deter rodents



Ordering Information

Description	Distribution Splice Trays	Part Number	CenturyLink Material Code
Hub in a Pedestal; (Emerson Proform-12) SC/APC, (1) 1x32 splitter, stranded pigtails, 12-fiber feeder and (2) cable clamps			
36-Fiber Distribution	(2) Trays; up to 48 splices	FD3-PA036J1AU2220	1098366
72-Fiber Distribution	(3) Trays; up to 72 splices	FD3-PA072J1AU3220	1098367
96-Fiber Distribution	(4) Trays; up to 96 splices	FD3-PA096J1AU4220	1098368

Note: Splitter modules shipped along with hub, not installed in hub or can be ordered separately (see page 7).

Indoor Fiber Distribution Hub (iFDH) 3000

The CommScope Indoor Fiber Distribution Hub (iFDH) products are designed to organize and administer fiber optic cables and passive optical splitters in an inside plant environment typically found at the MDU. These enclosures are used to connect feeder and distribution cables via optical splitters in a Fiber-to-the-Premises (FTTP) network application.

The FDH product provides a vital cross-connect/interconnect interface for optical transmission signals at the MDU. The iFDH hardware and components support the architectural flexibility of FTTP allowing fast and reliable interconnection between equipment and cables. The enclosure provides mechanical protection for cables, splices, connectors and passive optical splitters. In addition the product is designed to accommodate a range of fiber counts and support factory installation of pigtails, fanouts, and splitters.

The iFDH enclosure is designed for front access via a swing frame configuration. The unit accommodates either riser or indoor/outdoor cables via sealed grommet entry. Cables are secured with standard grip clamps to provide required pull out strength. The iFDH provides grounding for metallic members and for the cabinet.



Indoor Fiber Distribution Hub
(iFDH) 3000

Features

- Integrated splice tray offers flexible splice management for individual or full splice capacity
- Sealed enclosures protect fibers from dust, water spray, insects and other contaminants
- Accommodates high-density pre-terminated configurations, typically 72, 144, 288 or 432 fibers
- Accommodates high-density modular splitter options, 1x16, 1x32, dual 1x4 or dual 1x8
- Identification and labeling assure product traceability and ease of identification
- Tested to NEMA-12, GR-3123
- Complete fiber management allows for flexible rearrangement
- Cable management and routing limits bend radius and adds strain relief
- 216-Tool (can wrench), key lock or padlock offers flexible security options
- Traditional swing frame design allows for superior rear access
- Rack, wall or pad mountable
- Bend insensitive fiber on splitter outputs
- True plug-and-play splitter technology
- Dimensions (HxWxD) / Weight (lbs.):
 - FD3-MM size: 29.0" x 21.0" x 14.5" / 50 lbs.
 - FD3-MN size: 39.0" x 21.0" x 14.5" / 75 lbs.

Ordering Information

Description	Feeder Cable Type	Distribution Cable Type	Part Number	CenturyLink Material Code
Indoor FDH 3000				
144-Port, SC/APC	48-Fiber stranded pigtails spliced input	Spliced loose tube pigtails	FD3-MM144J00V00E0C	-
216-Port, SC/APC	24-Fiber stranded pigtails spliced input	Spliced loose tube pigtails	FD3-MM216J00V00E0B	1228710
288-Port, SC/APC	48-Fiber stranded pigtails spliced input	Spliced loose tube pigtails	FD3-MM288J00V00E0C	-
360-Port, SC/APC	48-Fiber stranded pigtails spliced input	Spliced loose tube pigtails	FD3-MN360J00V00E0C	-
432-Port, SC/APC	48-Fiber stranded pigtails spliced input	Spliced loose tube pigtails	FD3-MN432J00V00E0C	-

Note: Splitter modules purchased separately (see page 7).

Plug-and-Play Splitters

CommScope's Plug and Play Splitter Modules support centralized splitting architectures. The modules are available in a wide range of split ratios and are used in CommScope's FDH 3000 series cabinets, chassis, and rack mounts. The rugged packaging is built for high performance, while the true plug and play design reduces installation time.

Features

- Standardized splitter modules for all cabinet sizes
- Industry leading low loss splitter (16.7dB max for 1x32)
- Easy snap-in design requires no tools and allows easy deferment of splitter costs
- Less than 5 minute installation and customer turn up
- 2 mm pigtailed outputs designed for commonality among all of CommScope's OSP products
- Splitter types supported: 1x32, 1x16, 1x8, 1x4, 1x2 and 1x64 (1x2-1x32 Dual splitters)
- Outputs feature bend-optimized, cold weather rated fiber for material handling in cold temperature (-50° C to +75° C)
- All connectors have dust covers and ship installed into 8-packs to avoid tangled outputs
- Each output is individually labeled with port number and splitter serial number



Ordering Information

Description	Part Number	CenturyLink Material Code
Plug and Play Splitter Modules, SC/APC		
1x32	FPS-MPP1AJJ	1083064
2x32	FPS-MPP1GJJ	1132951
1x16	FPS-MPP1CJJ	1100622
Dual 1x16	FPS-MPP1MJJ	1094515
1x8	FPS-MPP1JJJ	1100782
Dual 1x8	FPS-MPP1UJJ	1123643
1x4	FPS-MPP1NJJ	1101934
Dual 1x4	FPS-MPP1UJJ	1224563
1x2	FPS-MPP1VJJ	1100783
Dual 1x2	FPS-MPP1XJJ	1224565

Specifications

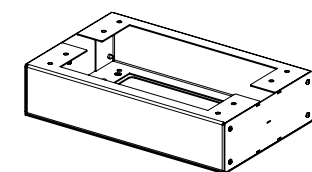
Splitter Type	Max Loss*	Typical Loss*	Uniformity	Return Loss	Directivity	PDL	Wavelength Range
1x2	3.8dB	3.1dB	1.1dB	≥55dB	≥55dB	0.2dB	1260-1360 nm and 1480 – 1580 nm
1x4	7.2dB	6.6dB	0.8dB	≥55dB	≥60dB	0.2dB	1260-1635 nm
1x8	10.3dB	9.7dB	1.0dB	≥55dB	≥60dB	0.2dB	1260-1635 nm
1x16	13.5dB	12.8dB	1.0dB	≥55dB	≥60dB	0.3dB	1260-1635 nm
1x32	16.7dB	16.0dB	1.3dB	≥55dB	≥60dB	0.3dB	1260-1635 nm
1x64	20.4dB	19.7dB	2.0dB	≥55dB	≥60dB	0.4dB	1260-1635 nm
2x16	14.1dB	12.9dB	2.0dB	≥55dB	≥60dB	0.4dB	1260-1635 nm
2x32	17.4dB	16.2dB	2.0dB	≥55dB	≥60dB	0.4dB	1260-1635 nm

*Includes Polarization Dependent Loss (PDL).

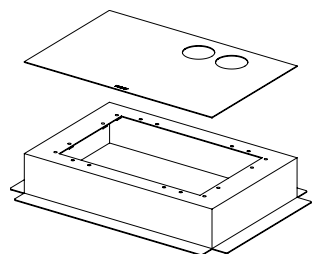
Fiber Distribution Hub Mounting Options and Accessories

Ordering Information

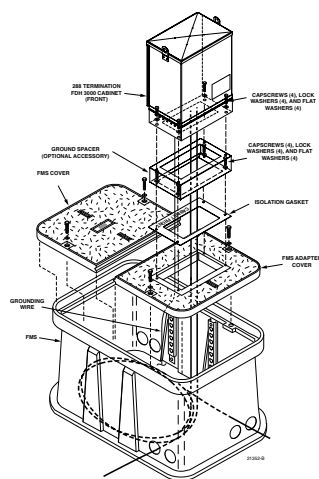
Description	Part Number	CenturyLink Material Code
6" Riser for Ground Mount Style Cabinets		
Raises cabinet an additional 6"		
For small (72-288 fibers) and medium (72-432 fibers) cabinets	FD3-RSRE06	1086633
For large (72-864 fibers) cabinets	FD3-RSRJ06	1238915
Pad Mount Frames		
For small (72-288 fibers) and medium (72-432 fibers) cabinets	FD3-PMFE06	1090917
For large (72-864 fibers) cabinets	FD3-PMFJ06	1090915
Hand Hole Kits		
30" x 60" for extra small (24-144 fibers), small (72-288 fibers) and medium (72-432 fibers) cabinets	FMS-ACE100-KIT-A	1083410
48" x 60" for large (72-864 fibers) cabinets	FMS-FD3J-KIT-A	1083413
33.25" L x 22.50" W x 24.00" H MST kit with swing arm	MST-ACH-C730Y300	1094620
Key for Cabinets	ACE/AGX-KEY	1132225



6" Riser



Pad Mount Frame



Hand Hole Kit

For ordering information on CommScope approved FTTP Multiport Service Terminals, DLX, and Drop Cable Solutions, please refer to the CenturyLink Quick Reference Guide CL-0008.



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