

FieldSmart® Fiber Distribution Hub (FDH) Hub Collapse Cabinet



Application

The FieldSmart Hub Collapse Cabinet (HCC) provides a centralized location within a service provider's network that houses both fiber terminations and optical components. This eliminates the need for a physical "hub" location, thereby saving land, maintenance and permitting expenses. Service providers increase revenue by collapsing multiple locations into one centralized service point.

Description

The FieldSmart Hub Collapse Cabinet (HCC) is designed for the cable operator looking to separate their passive infrastructure from the electronics without the need for a traditional, and expensive, standard hub architecture. Hub collapse environments allow passive architecture to be placed in the most craft-friendly place for circuit and wavelength allocation and associated MAC (moves, adds, and changes) work - on the ground. Providing up to 120-fiber terminations using the Clearview® Cassette and up to 32 LGX compatible CWDM/ DWDM modules, the FieldSmart Hub Collapse Cabinet (HCC) separates critical active components typically protected in the node, such as Cisco's O-Hub platform or Aurora V-Hub, and allows existing optical components to be reused throughout the network.

Clearfield's Hub Collapse Cabinet (HCC) provides a centralized location that will accommodate both optical components and fiber terminations, making it an ideal solution for service providers looking to maximize existing fibers within their network. With a small footprint, real estate costs can be minimized with a variety of mounting options (pole, pad or vault mount).

The FieldSmart FDH HCC Cabinet family incorporates a new pyramid shaped roof/solar shield and a reusable/replaceable venting feature, providing additional protection for deployed fiber. Mounting options include pad, pole or vault mounted with either a 4" or 12" riser. An optional exterior ground box is also available.

Features and Benefits

Integrity

- Terminations designed, tested and certified to Telcordia GR-326
- Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
- Designed to comply to Telcordia GR-20, GR-487 and GR-3125
- Designed to meet NEMA 4 specifications
- Constructed with 0.90 aluminum
- Powder coated for additional protection
- 300 series stainless steel fasteners used on all cabinets

Protection

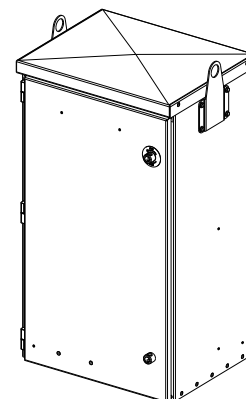
- 12-fiber Clearview Cassette protects fiber from environmental and human factors
- Rugged cable clamps protect the OSP cable breakouts from twisting and pistoning
- Patch only buffer tubes are fully protected with ruggedized bend-limiting tubing
- Snake skin sleeving provides additional buffer tube slack storage protection and manageability for patch and splice (Clearfield's in-cassette splicing solution) configurations
- Pyramid roof and venting provide additional protection in all environments

Access

- Clearview Cassette allows for quick visual troubleshooting without opening cassette
- Front access to pre-terminated assemblies with Clearview removable adapter plate
- Easy two captive fasteners for quick removal of individual cassettes for trouble shooting, splicing or replacing
- Front and rear access doors
- Optional ground/locate box available

Investment

- Fiber is deployed in increments of 12, providing the users the ability to scale from 12 ports to full capacity, aligning capital investment with network layout or subscriber revenue
- Express ports allow for extensions or parallel networks through the cabinet



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- Patch and splice configurations eliminate costs associated with jacketed IFC cabling, hand-holes and splice cases
- Eliminates building costs and permits for physical hub location structures

Technical Specifications

| FieldSmart Hub Collapse Cabinet | |
|---|--|
| Dimensions (without riser) | 35.11" H x 18.65" W x 16.98" D (891.79 mm x 469.90 mm x 431.29 mm) |
| Weight | 54 lbs. (24.49 kg) |
| Port Density | 120 can add five additional cassettes - 60 ports per LGX slot using adapter plates |
| LGX Compatible Bulkhead Slots | 32 |
| Cassette Types Supported | Clearview® Blue |
| Connector Types | SC/UPC, SC/APC, LC/UPC, LC/APC |
| Cable Types | Indoor/Outdoor, Outdoor (Riser/Non-Rated), Outdoor Armored (Riser/Non-Rated) |
| Splice Capacity | 12 splices in each Clearview Cassette |
| Cables Entrances | 6 |
| Recommended Jumper Length | Two meters |
| Mounting Options (Hoist kit included with each cabinet) | Vault mount; pole mount; pad mount |
| Standard Riser Base | 4"; 6 lbs. (101.60 mm; 2.72 kg) |
| Optional Riser Base | 12"; 12 lbs. (304.80 mm; 5.44 kg) |
| Material | 0.90 aluminum with almond powder coating |

Accessories

- Risers: 4" (101.60 mm) and 12" (304.80 mm)
- Exterior Ground Box — Available with 12" Riser Only
- FieldSmart Mid-Span/Feed-Through Plate Kit
- Pole Mount Kit
- Adapter Brackets (014375) - For adding cassettes into LGX slots (one set comes standard with each HCC Cabinet, additional sets can be ordered)
- Gore-Tex Filter Replacement - 020800



Configured Part Numbers

R - A R - - - **XXXM or XXXF***

1 2 3 4 5 6 7

1 Select Riser Size

A = 4" (101.60 mm)
B = 12" (304.80 mm)

2 Select Tie Plate Option

A = Tie plate option (3 slots)
Z = None

3 Select Distribution Port Count

| | |
|----------|-----------|
| 012 = 12 | 072 = 72 |
| 024 = 24 | 084 = 84 |
| 036 = 36 | 096 = 96 |
| 048 = 48 | 108 = 108 |
| 060 = 60 | 120 = 120 |

4 Select Connector

A = SC/UPC
C = SC/APC
F = LC/UPC
H = LC/APC

5 Select Mode and Type

1 = Singlemode (non-ribbon)
2 = Singlemode ribbon

6 Select Jacket Construction

B = OSP riser
E = OSP (non-rated)
F = Patch and splice
M = OSP armored (non-rated)
Z = None or ribbon patch and splice

7 Extras

B = Clearview Blue Cassettes
M = Ground Box in riser and Clearview Blue

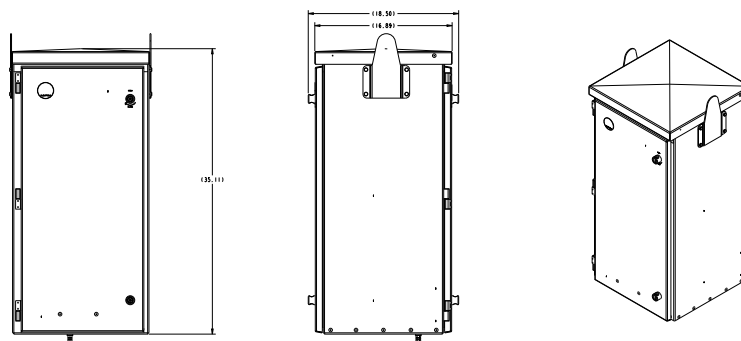
XXXM or XXXF

XXXM = Length of pigtails in meters
XXXF = Length of pigtails in feet

*200 feet maximum

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Vault Options

288 Port Cabinet

| Part Number | Description |
|-------------|---|
| V6A-CZP | Vault, below grade Pencil, 24" W x 36" L x 24" D (609.60 mm x 914.40 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit |
| V6B-CZP | Vault, below grade Pencil, 24" x 36" x 36", split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit |
| V6B-HZP | Vault, below grade Pencil, 24" x 36" x 36", split PC lid, hex bolts, gray, with cut out for FieldSmart cabinets, straight wall, requires 020538 Bolt Kit - ordered separately |
| V7A-CZP | Vault, below grade Pencil, 30" W x 48" L x 24" D (762.00 mm x 1219.20 mm x 609.60 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit |
| V7B-CZP | Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split HDPE lid, hex bolts, green, with cut out for FieldSmart cabinets, straight wall, with bolt kit |
| V7B-HZP | Vault, below grade Pencil, 30" W x 48" L x 36" D (762.00 mm x 1219.20 mm x 914.40 mm), split PC lid, hex bolts, green, with knock out for FieldSmart cabinets, straight wall, requires 020538 Bolt Kit - ordered separately |
| FMA-H3Z-SUB | Pole Mount Kit for FieldSmart cabinet |