Charles Fiber Interconnect Terminal (CFIT) Hubs

Outdoor Fiber Distribution Hub for Passive Optical Networks (GPON/EPON)

CFIT Hubs provide fiber distribution to up to 96 subscribers from a compact, environmentally protected outdoor terminal. CFIT Hubs have been designed with flexibility in mind and support fusion, pre-terminated and field terminated feed and drop fibers. These PON terminals have space for multiple 1x32 splitters for incremental growth. They are commonly mounted to an exterior wall of a multi-dwelling unit (MDU) for distribution to centralized or distributed Optical Network Terminals (ONT).

Everything about the interior of the CFIT-HS (standard hub) is designed with the technician in mind. Cable entry locations are positioned at the top and bottom of the enclosure, allowing flexible placement of feed and distribution cables. Fiber bend radius controls and routing guides ensure cable management and proper slack storage. A splice tray basket secures hinged splice trays that are individually accessible without disturbing previously spliced trays. The splice tray basket is itself removable for pre-terminated and field terminated applications. A hinged bulkhead increases the technician’s working area for greater access to the SC adapter panels. The bulkhead includes nine rows of 12-count adapters. The top row is dedicated to feed fibers and features shuttered adapters. The remaining eight rows create up to 96 SC drop locations. Three splitter slots are easily accessible. Charles 1x32 Passive Splitter Modules (CFSM) are available with optimized pigtail lengths.

CFIT Hubs are constructed from powder-coated aluminum that is both durable and lightweight. The unit can be quickly installed by a single technician. The main entrance door is secured with a low-profile, 216-tool quarter turn lock and padlock hasp for additional access control. Both internal and external bond locations are provided.

A compact hub (CFIT-HC) option is available for applications of up to 48 subscribers, ideal for small sized MDU.

Applications

Garden Apartments  Low-Rise MDU  Mid-Rise MDU  High-Rise MDU

CFIT Hubs provide PON fiber distribution for up to 96 subscribers at multi-user locations, with grow-as-you-go scalability.
CFIT Hub Product Features

1. 216-tool hex-head quarter turn lock
2. Fiber identification label
3. Bend radius controls
4. Removable splice tray basket
5. Hinged splice trays (up to 9 tray capacity)
6. Feed cable grommet locations (x2)
7. Distribution cable grommet locations (x10)
8. Hinged bulkhead (locks in two positions)
9. Bulkhead adapters (9 rows @ 12 adapters)
10. Three 1x32 splitter locations
11. Fiber routing guides
12. Cabinet mounting "keyholes" (x2)
13. Internal and external ground lugs

CFIT Hub Compact Version (CFIT-HC)

A compact, 48 subscribers CFIT-HC option is available for smaller sized MDU. This option includes 48 bulkhead adapters, two 1x32 splitter locations, and capacity for up to five hinged splice trays.

CFIT-HC
Overall Dimensions:
18"H x 15"W x 8"D (without mounting brackets)
Weight (empty): 17 lbs.
**Feed Cable Termination Options**

- Field-Terminated Feed Cable Fiber Routing
- Factory-Terminated Feed Cable Fiber Routing
- Spliced Feed Cable Fiber Routing

**Drop Cable Termination Options**

- Field-Terminated Drop Cable Fiber Routing
- Factory-Terminated Drop Cable Fiber Routing
- Spliced Distribution Cable Fiber Routing
Dependable Solutions, Superior Support

- Field-proven and unequaled 24-hour technical support
- Individualized application consultation
- Superior quality (ISO 9001/TL 9000 registered)

Visit our website at http://www.charlesindustries.com

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INNOVATIVE ENCLOSED SOLUTIONS™

Charles 1x32 Passive Splitter Module (CFSM)
- High quality
- Low insertion loss
- Bend insensitive jacketed fiber
- Right-sized drop length for better management

Accessories

<table>
<thead>
<tr>
<th>Ordering Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>CFSM-FM1132AA</td>
<td>1 x 32 pre-connectorized (SC/APC) splitter module, 2mm jacketed pigtails</td>
</tr>
<tr>
<td>97-CFBTBNDCNTRL</td>
<td>CFBT upgrade kit for field terminating, includes bend radius control and hardware</td>
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<tr>
<td>97-SCA12LF3M</td>
<td>CFIT upgrade kit containing one 12 loose tube fiber fanout assembly, SC/APC connectors</td>
</tr>
<tr>
<td>97-SCA12RF3M</td>
<td>CFIT upgrade kit containing one 12 ribbon fiber fanout assembly, SC/APC connectors</td>
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<tr>
<td>97-ADPT12PNL</td>
<td>CFIT upgrade kit containing one 12 adapter panel, SC/APC adapters</td>
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<tr>
<td>97-FIBR24HTRAY</td>
<td>Charles hinged fiber splice tray, up to 24 fusion splices</td>
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<tr>
<td>97-FIBR24TRAY</td>
<td>Charles fiber splice tray, up to 24 fusion splices</td>
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NOTES:
- CFIT-HC compact hub version offered for applications of up to 48 subscribers
- Stubbed fiber cable is offered in many types and lengths. Contact Charles Industries for further details
- Many Miscellaneous Kits are available per user specification. Please call Charles Industries for available options and for unique part # assignment