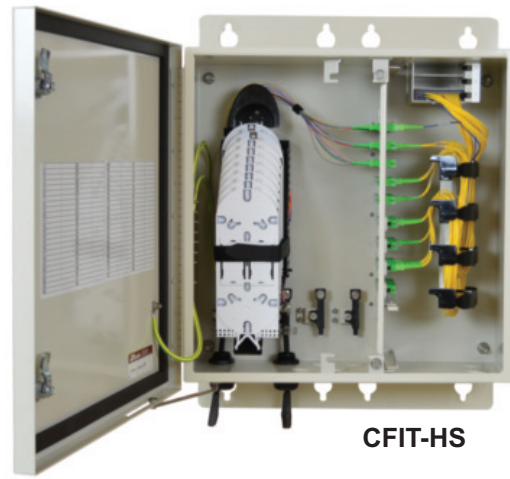


Charles Fiber Interconnect Terminal (CFIT) Hubs

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

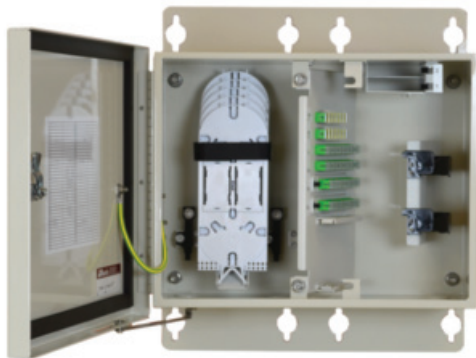
CFIT Hubs provide fiber distribution to up to 96 subscribers from a compact, environmentally protected outdoor terminal. CFIT Hubs have been designed with flexibility in mind and support fusion, pre-terminated and field terminated feed and drop fibers. These PON terminals have space for multiple 1x32 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).



CFIT-HS



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-HC

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



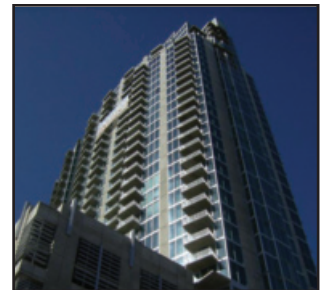
Garden Apartments



Low-Rise MDU



Mid-Rise MDU

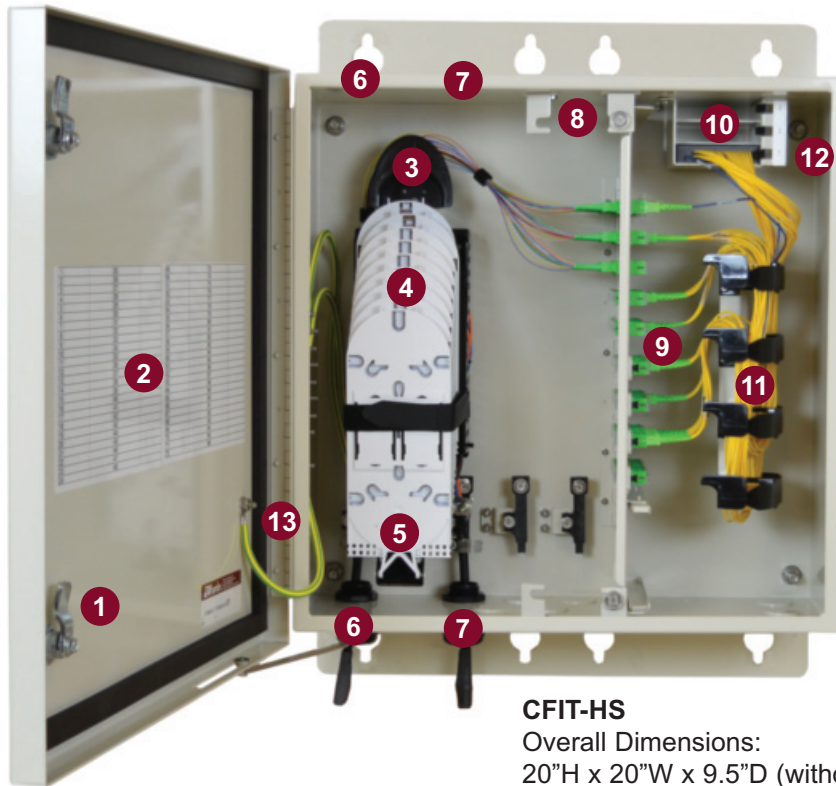


High-Rise MDU

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



CFIT-HS

Overall Dimensions:

20"H x 20"W x 9.5"D (without mounting brackets)

Weight (empty): 25 lbs.

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

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:

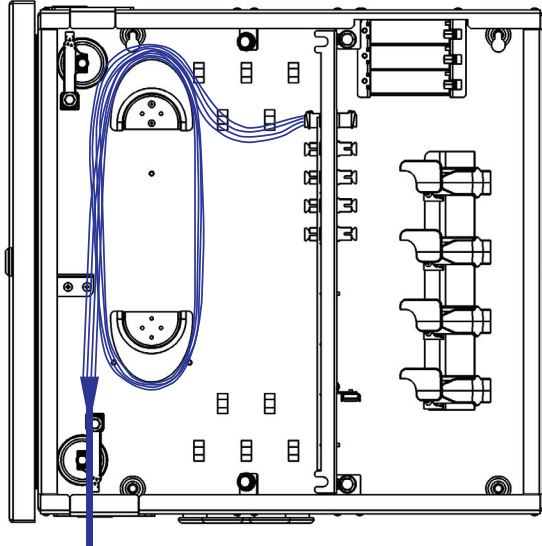
18"H x 15"W x 8"D

(without mounting brackets)

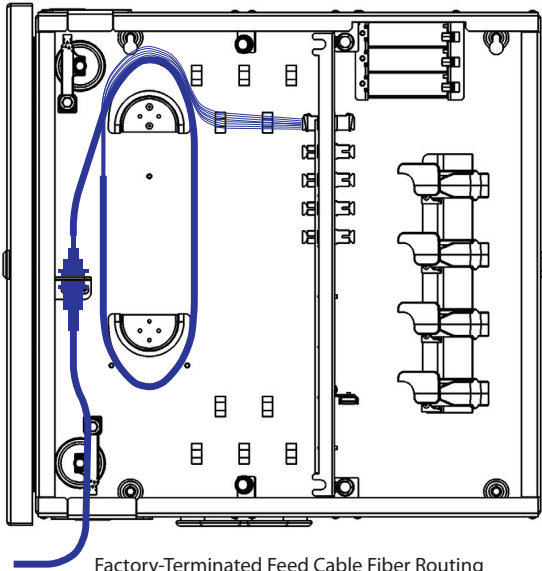
Weight (empty): 17 lbs.



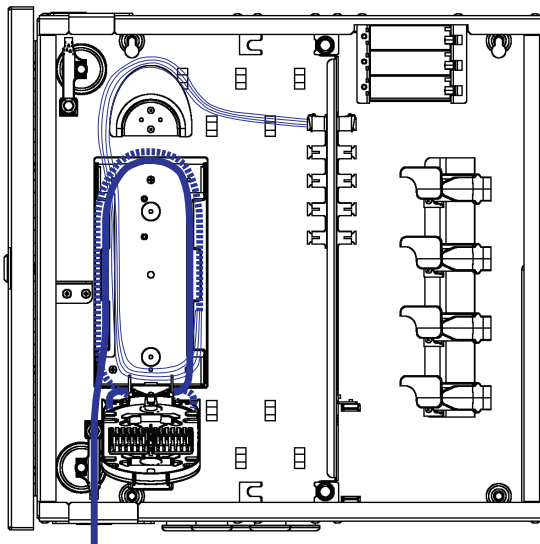
Feed Cable Termination Options



Field-Terminated Feed Cable Fiber Routing

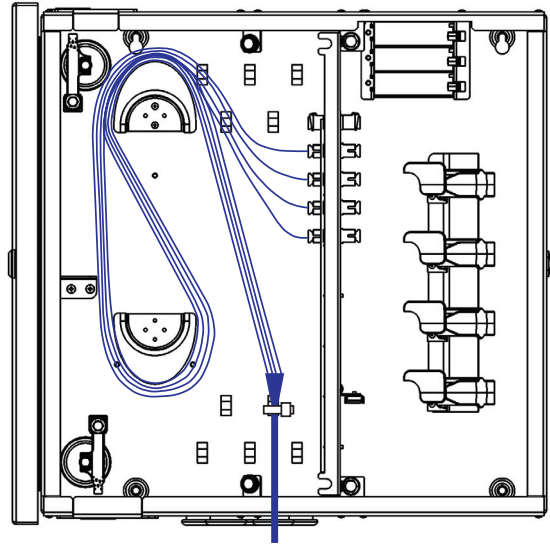


Factory-Terminated Feed Cable Fiber Routing

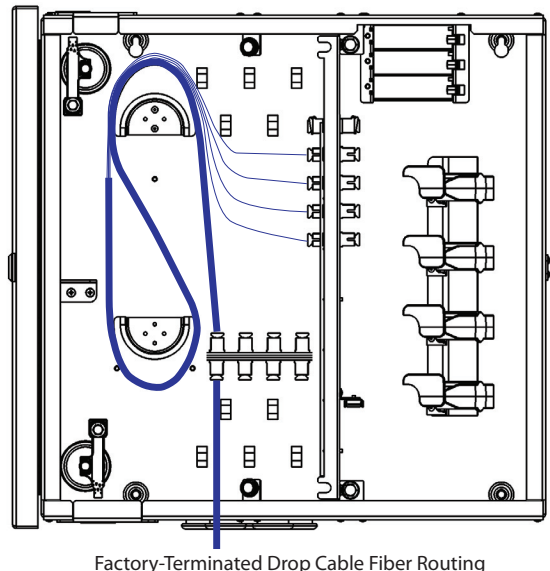


Spliced Feed Cable Fiber Routing

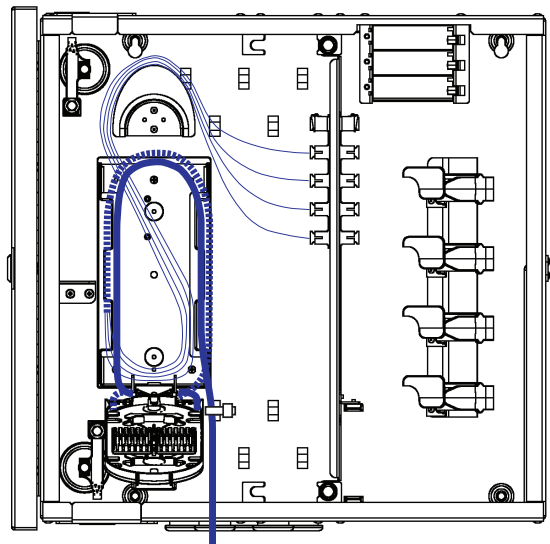
Drop Cable Termination Options



Field-Terminated Drop Cable Fiber Routing



Factory-Terminated Drop Cable Fiber Routing



Spliced Distribution Cable Fiber Routing

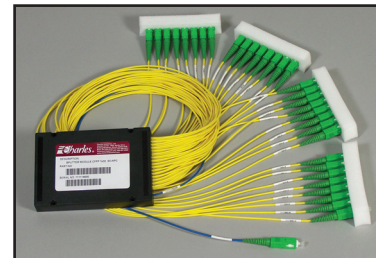
CFIT Hub Ordering Information

		(1) Cabinet Size	(2) Bulkhead Count	(3) Feed Fiber Mgmt.	(4) Drop Fiber Mgmt.	(5) Feed Fiber Quantity	(6) Feed Fiber Type	(7) Drop Fiber Quantity	(8) Drop Fiber Type	(9) Misc. Kits	
CFIT -											
HS	Standard	00	0 Adptrs.	H	Hinged splice tray(s); (1 tray per 12 adapters)	0	None	0	None	0	None
HC	Compact	12	12 Adptrs.	S	Splice tray(s); (1 tray per 12 adapters)	1	12 Cntrs.	P	2mm Jacketed Pigtailed	1	Padlock
		24	24 Adptrs.	M	Multi-Fiber Hardened Connector	2	24 Cntrs.	R	Ribbon Fanout (ribbon to 900 micron)	2	Heyco Fittings
		48	48 Adptrs.	P	Multi-Fiber MPO Connector	4	48 Cntrs.	L	Loose Tube Fanout (250 to 900 micron)		
		72	72 Adptrs.	R	Cable Radius Management Only	7	72 Cntrs.	M	MPO Fanout Assembly		
		96	96 Adptrs.			9	96 Cntrs.	S	Stubbed Fiber Cable		

- NOTES:
- CFIT-HC compact hub version offered for applications of up to 48 subscribers (1)
 - Stubbed fiber cable is offered in many types and lengths. Contact Charles Industries for further details (6) & (8)
 - Many Miscellaneous Kits are available per user specification. Please call Charles Industries for available options and for unique part # assignment (9)

Accessories

Ordering Number	Description
CFSM-FM1132AA	1 x 32 pre-connectorized (SC/APC) splitter module, 2mm jacketed pigtailed
97-CFBTBNDCTRL	CFBT upgrade kit for field terminating, includes bend radius control and hardware
97-SCA12LF3M	CFIT upgrade kit containing one 12 loose tube fiber fanout assembly, SC/APC connectors
97-SCA12RF3M	CFIT upgrade kit containing one 12 ribbon fiber fanout assembly, SC/APC connectors
97-ADPT12PNL	CFIT upgrade kit containing one 12 adapter panel, SC/APC adapters
97-FIBR24HTRAY	Charles hinged fiber splice tray, up to 24 fusion splices
97-FIBR24TRAY	Charles fiber splice tray, up to 24 fusion splices



Charles 1x32 Passive Splitter Module (CFSM)

- High quality
- Low insertion loss
- Bend insensitive jacketed fiber
- Right-sized drop length for better management

Dependable Solutions, Superior Support

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

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

Charles Industries, Ltd.

Voice: (847) 806-6300

Fax: (847) 806-6231


E-mail: mktsev@charlesindustries.com

MADE IN THE
USA



INNOVATIVE ENCLOSED SOLUTIONS™



 is a registered trademark of Charles Industries, Ltd.

D-OSP145-F18