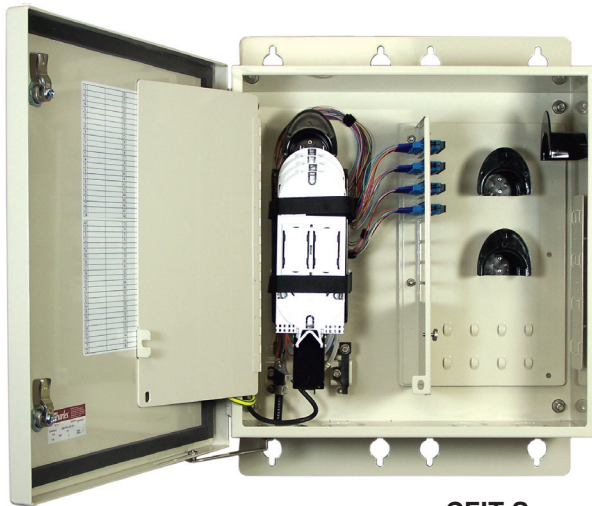


# Charles Fiber Interconnect Terminals (CFIT)

**Fast, flexible outdoor aggregation or demarcation enclosure for every type of fiber optic network**



CFIT-S



CFIT-C

Charles Fiber Interconnect Terminals (CFIT) provide flexible, compact outdoor enclosure solutions for fiber aggregation or demarcation of up to 96 fiber connectors and/or 432 fiber splices with easily field upgradeable options. The flexible splicing area and bulkhead design allows for splicing or terminating all different fiber types and connectors. With a bare end or connector splitter tray (CFST), CFIT enclosures also offer the capability of a fiber distribution hub. A compact CFIT-C version is available for up to 48 fiber connectors and/or 120 fiber splices.

CFIT are constructed out of powder-coated aluminum and offer superior environmental protection in all outdoor applications. Their light weight allows for one-person installation on walls, posts or H-frames. Subscribers can be added incrementally for grow-as-you-go scalability, with intelligently designed fiber feed and drop tray arrangements, adapter panels and fiber cable management ensuring existing subscribers are undisturbed as new subscribers are added.

## Applications

CFIT cabinets are ideally suited to cellsites, multi-dwelling units (MDU), campuses, strip malls, business parks and other environments where the customer requires high-capacity fiber bandwidth for wireless backhaul, private networks or data and video broadband services. Their convenient form factor saves space and allows for one-person placement on walls, poles or H-Frame mounts.



Cellsites



Low Rise / Garden Style  
MDU



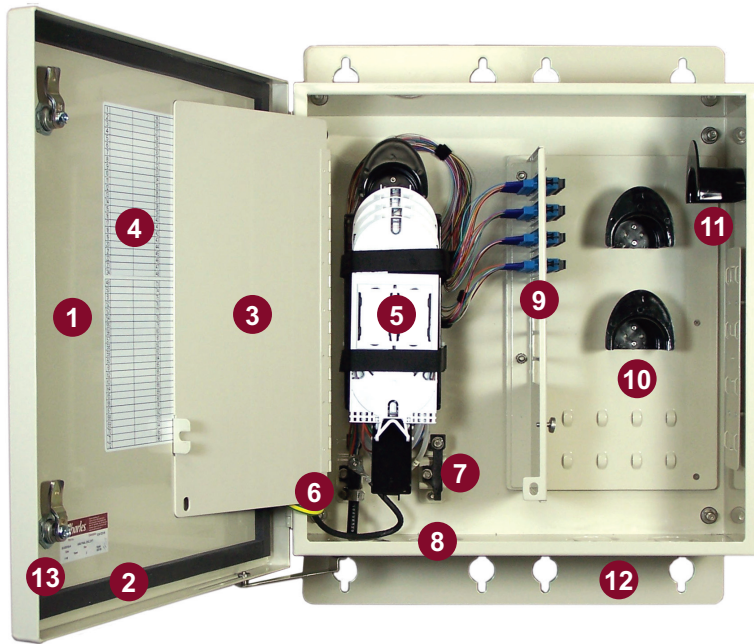
Mid Rise / High Rise  
MDU



Business Parks



# CFIT Product Features



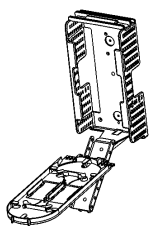
CFIT-S shown. Other configurations and options available. Please see "CFIT Ordering Information" on back page for additional information.



Optional inner security door

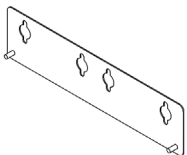
- 1 Welded aluminum housing and powder-coated paint finish
- 2 Weather-tight door gasket
- 3 Optional padlockable inner security door
- 4 Address label
- 5 Splice tray basket (standard or hinged) available on feed and/or drop side
- 6 Bonding plate with external ground lug
- 7 Cable and strength member attachments
- 8 Six knockouts sized for 1.25" and 2" conduit seals
- 9 Adapter plate for CO connections and direct equipment interconnects expandable in 12 adapter bank increments up to 96 total SC adapters. Other adapter types available
- 10 Connector drop option with fiber bend controls and multiple cable tie-down locations for securing pigtails
- 11 Optional plate with multiple cable tie-down locations and D-clips for securing pigtails
- 12 Removable external mounting brackets with multiple bolt placement keyholes. Internal mounting option also available
- 13 Two 1/4-turn hex-head locks

## CFIT Accessory Options



### Feed Side Splicing Options

- Hinged splice tray option with up to 9 splice trays
- Connector feed option
- Non-hinged tray option
- Fiber splitter tray option



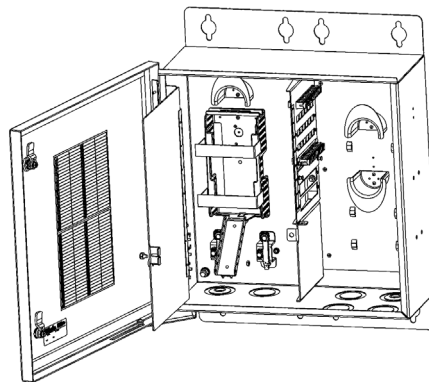
### Mounting Options

- External mounting bracket
- Internal mounting



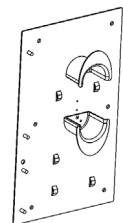
### Miscellaneous Options

- Front door padlock
- Cable entry fittings

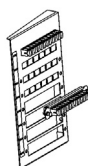


### Drop Side Options

- Connector drop option
- Splicing option with up to 9 hinged splice trays (CFIT-S only)

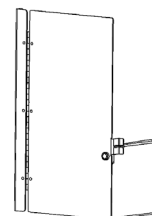


Please contact Charles for additional accessory information



### Adapter Bulkhead

- CFIT-S: Maximum 96
- CFIT-C: Maximum 48



### Inner Security Door

- Feed fiber side only
- Padlockable

## Product Specifications

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**CFIT-S**



**CFIT-C**

|                       |   |  |
|-----------------------|---|--|
| Dimensions:           | 21"H x 21"W x 8.5"D (w/o mounting brackets)   | 18"H x 18"W x 6"D (w/o mounting brackets)  |
| Weight:               | 25 lbs.   | 15 lbs.  |
| Construction:         | Aluminum Welded Construction with Powder-Coated Finish  | Aluminum Welded Construction with Powder-Coated Finish   |
| Splicing Capacity:    | Up to Nine (9) 4"x9" Hinged Splice Trays on Feed Fiber Side<br>Up to Nine (9) 4"x9" Hinged Splice Trays on Drop Fiber Side  | Up to Five (5) 4"x9" Hinged Splice Trays on Feed Fiber Side  |
| Fiber Options:        | Fiber Fanout or Pigtail Accessories w/ SC, LC & MPO Connectors  | Fiber Fanout or Pigtail Accessories w/ SC, LC & MPO Connectors   |
| Splitter Trays:       | 1x4, 1x8, 1x16 or 1x32 Bare End or Connectorized Tray Mounted Splitter  | 1x4, 1x8, 1x16 or 1x32 Bare End or Connectorized Tray Mounted Splitter   |
| Bulkhead Capacity:    | 96 SC Adapters<br>192 LC Adapters   | 48 SC Adapters<br>96 LC Adapters   |
| Cable Ingress/Egress: | Feed Side - Two (2) Knockouts for 1.25" or 2" Conduits and removable plug for Heyco Fitting<br>Drop Side - Four (4) Knockouts for 1.25" or 2" Conduits and removable plug for Heyco Fitting | Feed Side - Two (2) Knockouts for 1.25" or 2" Conduits and removable plug for Heyco Fitting<br>Drop Side - Two (2) Knockouts for 1.25" or 2" Conduits and removable plug for Heyco Fitting |
| Security Features:    | Two (2) 216-Hex 1/4 Turn Locks<br>• Padlock Option Available<br>• Inner Lockable Door Available   | Two (2) 216-Hex 1/4 Turn Locks<br>• Padlock Option Available<br>• Inner Lockable Door Available  |
| Mounting:             | Wall or H-Frame Mount with Removable Mounting Brackets<br>• Pole Mount Kit Available  | Wall or H-Frame Mount with Removable Mounting Brackets<br>• Pole Mount Kit Available   |
| Compliance:           | Designed to Meet or Exceed GR-2898-CORE and UL 50 NEMA 4X Specifications  | Designed to Meet or Exceed GR-2898-CORE and UL 50 NEMA 4X Specifications   |

# CFIT Ordering Information

|                   |                       | (1)<br>Cabinet<br>Size | (2)<br>Bulkhead<br>Count | (3)<br>Connector<br>Type   | (4)<br>Fiber<br>Quantity       | (5)<br>Fiber<br>Type                    | (6)<br>Feed Splice<br>Trays    | (7)<br>Mounting                      | (8)<br>Drop Side<br>Splice | (9)<br>Misc.<br>Kits |
|-------------------|-----------------------|------------------------|--------------------------|----------------------------|--------------------------------|---|--------------------------------|--------------------------------------|----------------------------|----------------------|
| CFIT -            |                       |                        |                          |                            |                                |   |                                |                                      |                            |                      |
| <b>S</b> Standard | <b>00</b> 0 Adapters  | <b>0</b> None          | <b>0</b> 0 Connectors    | <b>0</b> None              | <b>0</b> None                  | <b>0</b> Internal Mounting              | <b>0</b> Connector Drop Mngt.  | <b>0</b> None                        |                            |                      |
| <b>C</b> Compact  | <b>12</b> 12 Adapters | <b>A</b> SC/APC        | <b>1</b> 12 Connectors   | <b>R</b> Ribbon Fanout     | <b>H</b> Hinged Splice Tray(s) | <b>X</b> External Mounting Brackets     | <b>H</b> Hinged Splice Tray(s) | <b>1</b> Padlock                     |                            |                      |
|                   | <b>24</b> 24 Adapters | <b>B</b> SC/UPC        | <b>2</b> 24 Connectors   | <b>L</b> Loose Tube Fanout | <b>P</b> Connector Feed Mngt.  | <b>P</b> External Mounting w/Pole Mount |                                | <b>2</b> Inner Security Door         |                            |                      |
|                   | <b>48</b> 48 Adapters | <b>C</b> LC/APC        | <b>4</b> 48 Connectors   |                            |                                |   |                                | <b>3</b> Padlock & Inner Scrty. Door |                            |                      |
|                   | <b>72</b> 72 Adapters | <b>D</b> LC/UPC        | <b>7</b> 72 Connectors   |                            |                                |   |                                | <b>4</b> Ring Plate                  |                            |                      |
|                   | <b>96</b> 96 Adapters | <b>E</b> MPO           | <b>9</b> 96 Connectors   |                            |                                |   |                                | <b>5</b> Heyco Fittings              |                            |                      |

## NOTES:

- CFIT-Compact (CFIT-C) supports up to 48 adapters and connectors (1) & (3)
- Ribbon Fanouts are to 900 micron (5)
- Loose Tube Fanouts are 250 to 900 micron (5)
- Stubbed Fiber Cable is offered in many types and lengths, call for details (5)
- Hinged Trays and Splice Trays are provided 1 tray per 12 adapters ordered (6) & (8)
- Drop Side Splicing option available on CFIT-Standard (CFIT-S) only (8)
- Many Miscellaneous Kits are available per user specification. Please call Charles Industries for available options and for unique part # assignment (9)

## Accessories

### Charles Part #

97-ADPT12PNL-U  
 97-CABPMTKIT  
 97-FIBR24HTRAY  
 97-FIBR24TRAY  
 CFST-A110400  
 CFST-A110800  
 CFST-A111600  
 CFST-A113200  
 CFST-MM1104AB  
 CFST-MM1108AB  
 CFST-MM1116AB  
 CFST-MM1132AB

### Description

12 Port SC/UPC Patch Plate  
 Pole Mount Kit (includes hardware)  
 Charles Fiber Splice Tray for 12 or 24 fibers, 4" x 9" (hinged)  
 Charles Fiber Splice Tray for 12 or 24 fibers, 4" x 9" (non-hinged)  
 One 1X4 Charles PLC splitter tray, with 2 transportation tubes and 6 tie-wraps  
 One 1X8 Charles PLC splitter tray, with 2 transportation tubes and 6 tie-wraps  
 One 1X16 Charles PLC splitter tray, with 2 transportation tubes and 6 tie-wraps  
 One 1X32 Charles PLC splitter tray, with 4 transportation tubes and 12 tie-wraps  
 One 1X4 Charles tray mounted splitter module, with SC/APC connectors  
 One 1X8 Charles tray mounted splitter module, with SC/APC connectors  
 One 1X16 Charles tray mounted splitter module, with SC/APC connectors  
 One 1X32 Charles tray mounted splitter module, with SC/APC connectors

## Dependable Solutions, Superior Support

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

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