Charles Industries
CFTT4 Fiber Transition Terminal
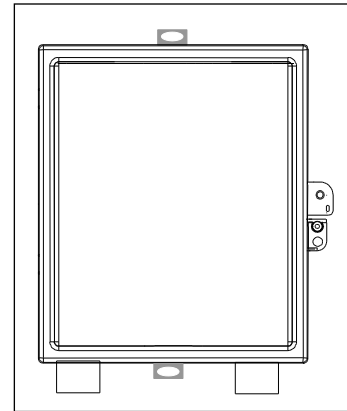# General Description and Installation

Figure 1   CFTT4 Front View

1.   GENERAL INTRODUCTION

1.1   Document Purpose

This document provides installation instructions for the Charles Industries' CFTT4 fiber splicing tray. Figure 1 shows the front view of the CFTT4.

1.2   Product Purpose

The CFTT4 provides a means of managing fiber optics service cable.

2.   PRODUCT DESCRIPTION

The CFTT4 enclosure houses an integrated splicing tray. Feed fiber cable enters the enclosure through an access port and then the fibers are separated in the hinged splice tray to be spliced with the drop fiber cable. The CFTT4 is available with up to four SC/APC fiber cable adapters (specify quantity at time of ordering). Figure 2 shows the dimensions of the CFTT4.
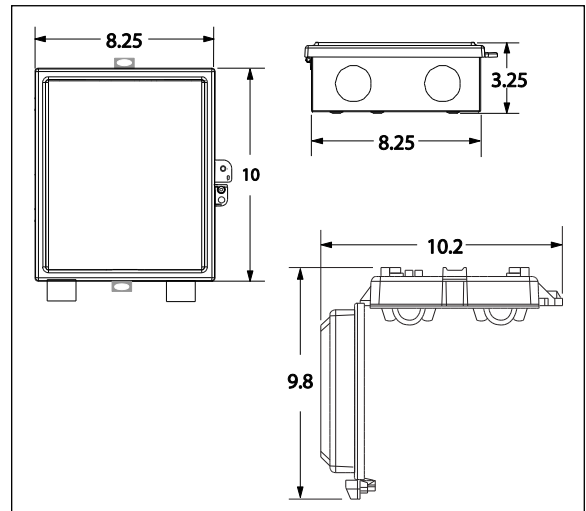

Figure 2   CFTT4 Dimensions

3. INSTALLATION

3.1 Warnings and Precautions

- Follow all national safety codes, OSHA requirements, and local environmental, workplace and company codes, safety procedures and practices.
- Only authorized trained personnel shall install the unit.

3.2 Mounting the CFTT4

Mount the enclosure according to local practice. Several mounting options are available (see Figure 3). Choose the mounting holes best suited for the mounting surface selected. Use hardware appropriate for the mounting surface.
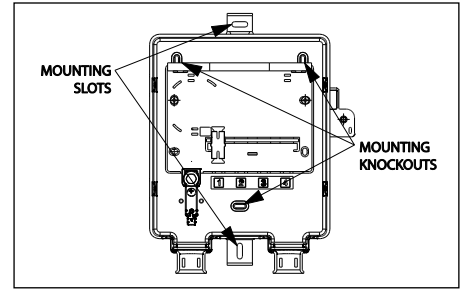
3.3 Installing the Adapters

Figure 3   Mounting Options

In some models, the adapters are installed at the factory. However, using the CFTT4-XXXXX, the adapters must be installed in the field. See Figure 4 for a diagram of how the adapters fit into the unit.
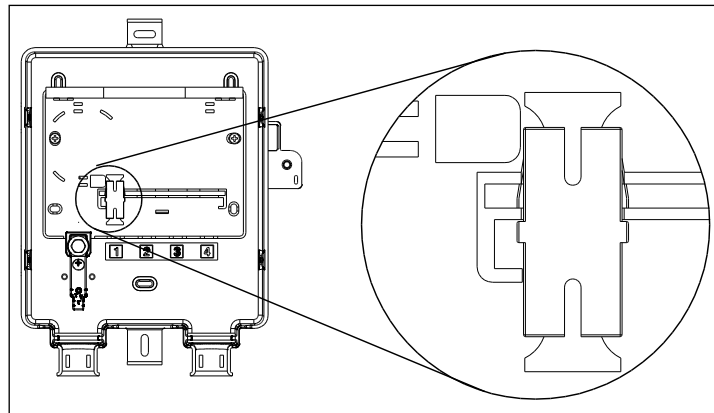

Figure 4   Adapter Installation

3.4 Routing Cable into the Unit
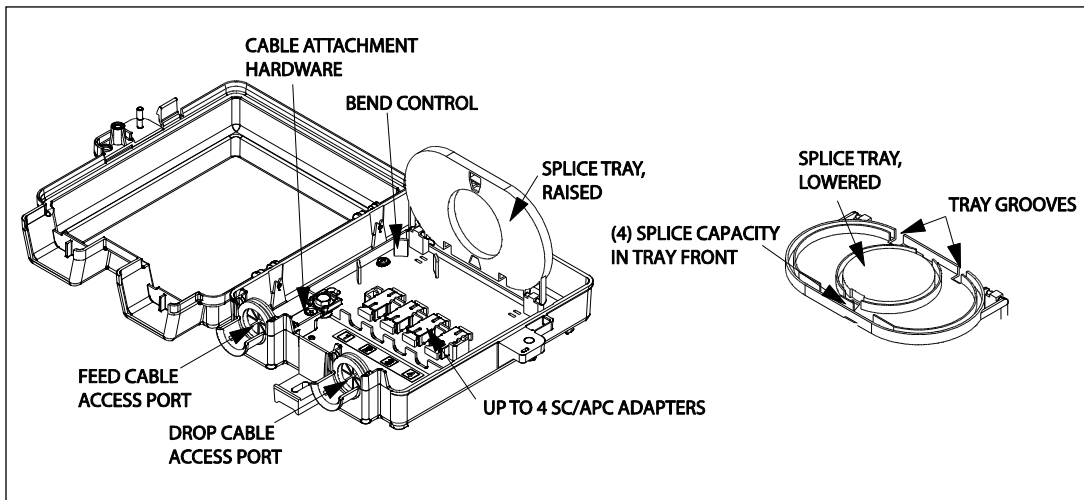
See Figure 5 for a diagram of the CFTT4 components.
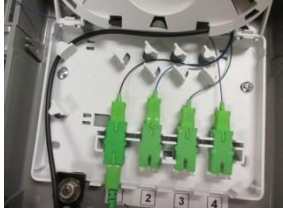

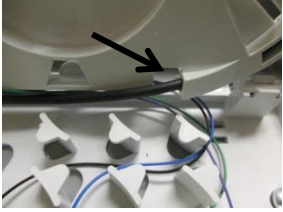**Figure 5   CFTT4 Components**

3.4.1 Feed Cable
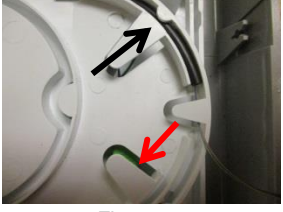
1. Insert the feed cable into the CFTT4 through the feed cable access port. Secure the feed cable using the cable attachment hardware provided.
2. Route fiber around the bend control components.
3. Run the feed fiber into the splice tray through one of the two grooves located at the top of the tray.
4. See Figures 7 through 14 for more details.

3.4.2 Drop Cable

1. Insert pre-connectorized drop cable (pigtail) into the CFTT4 through the drop cable access port.
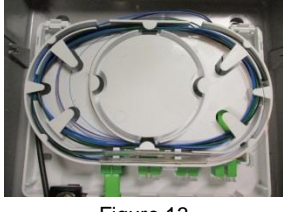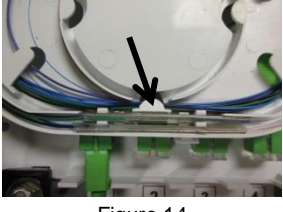2. Insert the drop cable connector to the bottom of the SC/APC adapter.
3. Insert a second length of pre-connectorized drop cable into the top of the SC/APC adapter.
4. Route the second length of fiber pigtail into the splice tray through the groove not chosen for the feed cable.
5. See Figures 7 through 14 for more details.

Splice fibers according to local practices.

The figures below show the fiber cable routing through the CFTT4.

Ensure that the sheathed fiber cable is secured to the cable attachment. Secure using local practice.	Figure 6
Lift the upper tray. Route the buffer tube through feed cable access port and through the lower tray as shown in Figure 7. Figure 8 shows a close-up of where the buffer tube enters the upper tray.	Figure 7 Figure 8
Route buffer tube into the upper tray (Figure 9). Ensure that the buffer tube is placed underneath the first tab in the outer oval (black arrow, Figure 10). After this tab, cut the buffer tube to expose fibers and route them into the inner oval following the red arrow.	Figure 9 Figure 10
Route fibers and connectorized pigtails through the tray as shown (Figures 11 and 12).Ensure that fibers and pigtails are routed in opposite directions to enable splicing.	Figure 11 Figure 12
Use protective sleeves to protect exposed fibers in the splicing area (Figure 13, close-up in Figure 14). Recommended sleeve size is 60mm length and 2mm diameter after shrinking.	Figure 13 Figure 14

4.   TECHNICAL ASSISTANCE AND REPAIR SERVICE

For questions on product repair or if technical assistance is required, contact Charles Technical Support.

> 847-806-8500
> techserv@charlesindustries.com (email)
> http://www.charlesindustries.com/techserv.htm

5.   WARRANTY & CUSTOMER SERVICE

Charles Industries, Ltd. offers a five-year warranty on the housing and a one-year warranty on the optical components. The Charles warranty is limited to the operation of the hardware as described in this documentation and does not cover equipment which may be integrated by a third party. The terms and conditions applicable to any specific sale of product shall be defined in the resulting sales contract. For questions on warranty or other customer service assistance, contact your Charles Customer Service Representative.

> 847-806-6300
> mktserv@charlesindustries.com (email)
> http://www.charlesindustries.com/main/telecom_sales_support.htm