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80-002665-F Ring Application Adapter Kit Installation Instructions (For Field-Installation into CFDP210-EL24-type Pedestals)

1. GENERAL

1.1 Document Purpose. This document provides instructions for the field technician to properly retrofit and install the Charles 80-002665-F Ring Application Adapter Kit (shown in Figure 1) into an existing field-installed Charles CFDP210-EL24-type Interconnect OSP pedestal. Consult the document shipped with the pedestal for pedestal installation instructions and instructions to prepare, splice and terminate fiber cables inside the pedestals. Call Charles Industries (see Part 3) to request more information or literature on this or other products.

- <i>NOTE</i> -	
Hereafter the 80-002665-F also may be referred to as the "kit" or "assembly."	

1.2 Document Status. Whenever this document is updated, the update reason will be stated in this paragraph. The second printing updates the drawings to reflect the new CFDP210 pedestal design.

1.3 Product Purpose and Description. The Charles 80-002665-F is a bulkhead that consists of an L-shaped plate equipped with factory-installed SC/UPC adapters and mounting screws for installation on a field-installed Charles CFDP210-EL24 pedestal fiber organizer. The kit converts a field-installed Charles CFDP210-EL24 pedestal (Figure 2) to a CFDP210-EL32R pedestal, which allows the pedestal to be used in ring applications. The kit allows up to five MUXes in a ring configuration that features both a "Working" (Service) circuit and a "Protect" circuit for continuous operation, even during times of repair or maintenance. Figure 3 illustrates a cell-site ring applications.

1.4 Product Mounting Location. The kit is field-installed on the customer/drop side (Figure 2) of the CFDP210-EL24 pedestal's fiber organizer. See Figure 5 for a closer view of the mounting location. Table 1 provides detailed installation steps.

2. CABLE INSTALLATION AND SPLICING

Perform the steps in Table 1 to install the kit in the CFDP210-EL24 pedestal and to make fiber cable connections to the adapters in the kit's bulkhead.



- CAUTION - Perform all bonding and grounding prior to making any electrical and communications connections.



Figure 1. Ring Application Adapter Kit



Figure 2. Customer (Drop) Side of CFDP210-EL24 Pedestal

- EYE DAMAGE WARNING -

Risk of serious eye damage! Never look into the end of a fiber optic line nor use a magnifier in the presence of laser light or radiation. Always exercise caution when installing, testing, or performing maintenance on live circuits. If eye exposure to laser light or radiation has occurred or is suspected, immediately seek medical treatment by a professional eye care physician.

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Figure 3. Pedestal Shown in a Cell-Site Ring Application (serves up to 5 MUXes, 4 Fibers per MUX)



Figure 4. Pedestal Fiber Routing Diagram for Ring and Point-to-Point Applications







Figure 5. Kit Installation – At Top Half of Pedestal Fiber Organizer





Figure 6. Customer (Drop) Side Door of CFDP210-EL24



18. □	Route, secure, and connect drop preconnectorized cables. After identi- fying the targeted adapter, route and loop MUX 1's first preconnectorized cable around the bend control on that side of the fiber organizer and hang the last slack loop from the bend-control guide, before inserting the precon- nectorized cable connector into the targeted and properly-labeled adapter in the correct bulkhead. Repeat for all preconnectorized cable connectors of the MUX cable. If the targeted adapter faces left, route and loop the length of preconnectorized cable on the left bend-control guide, so the connector can be inserted into the adapter with minimal fiber cable bend- ing. Likewise, if the adapter faces right, loop the preconnectorized cable on the right bend-control guide before inserting its connector into its correct adapter. Size the loops so that the connector will easily (without tension) reach the appropriate bulkhead adapter. Secure the cable to the fiber organizer tie-down slots with cable ties at regular intervals. Always plug a #1 preconnectorized cable connector into a #1 adapter (and a #2 connector in a #2 adapter, etc.), and always be aware of and double-check the MUX # being connected. It is very important to use extreme care and double- check each connection to assure the proper-numbered precon- nectorized cable is connected to the proper-numbered precon- nectorized cable is connected to the proper-numbered precon-		
19. 🗆	Double-check all connections. Verify <i>both</i> the correct MUX # and the correct fiber connector # when double-checking all adapter connections. Preconnectorized cable connectors coming from MUX 1 must be inserted into an adapter labeled with an "M1", and MUX 2 preconnectorized cable connectors to adapters labeled with an "M2", etc. All #1 preconnectorized cable connectors must be inserted into #1 adapters. All #2 fiber connectors must mate with #2 adapters, #3 connectors mate with #3 adapters, and #4 connectors mate with #4 adapters. Use the labels.		
20. 🗆	Prepare all drops/MUXes. Repeat Steps 4-19 for all customer drop/MUX cables and their preconnectorized cables ready for installation and connection at this time.		
21. □	(Re)Place foam plug, if drop channel is used. After all drop cable pigtails are properly terminated, either re-install the foam plug in the drop channel of the pedestal base, or if it was not moved, verify the foam plug is still properly installed in the drop channel (see Step 8). If it was removed or dislodged, re-install it at this time.		
22. 🗆	Re-check cable management & lock inner door(s). Verify all tubing is neat and not kinked, and that no cables, ties, wires or tubes protrude beyond the fiber organizer walls. Close and lock the inner doors and tighten all cup-washer screws.		
23. □	Close the pedestal. Locate the outer dome and orient it so the snap lock faces the front (the Charles logo is on the base front). Slide the dome down over the fiber organizer, align the dome's snap lock with the base's latch, and allow the self-locking dome to drop down in place. An audible "click" indicates the dome is locked.		
Table	Table 1. Field-Installing a 80-002665-F Kit in a CFDP210-EL24 Ped		

3. CUSTOMER TECHNICAL SERVICE

If technical assistance or customer service is required, contact Charles Industries by calling or using one of the following options:

847-806-8500 (Tech. Serv. local)847-806-6300 (Customer Service)800-607-8500 (Tech. Serv. toll-free)847-806-6653 (Customer Serv. FAX)847-806-8556 (Tech. Serv. FAX)mktserv@charlesindustries.comtechserv@charlesindustries.comwww.charlesindustries.com



Various replacement parts are available. Contact Charles Industries for more information.



Figure 7. Interior View of the CFDP210-EL24, Ring Kit Installed