Fiber Inline Splice Closure for Hardened Drops
FISC-H Series
General Description and Installation

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Figure 1 FISC-H View

1. GENERAL INTRODUCTION

Document Purpose

This document provides installation instructions for the Charles Fiber Inline Splice Closure for use with hardened drops

-NOTE-

Hereafter the Charles Fiber Inline Splice Closure will be referred to as the "FISC-H" or "closure."

Product Purpose

FISC-H is a splice closure that is a combination splice closure and terminal and used for distributing fiber connections to subscribers in Fiber to the Home networks. It has OptiTap compatible drop ports that can be connected without opening the case. It can also serve as a splitter closure within a distributed split architecture.

Product Mounting and Location

FISC-H can be used with either inline or butt splicing. Inline is often desired for aerial deployment applications. Butt splice is ideal for pedestal, pole, or below grade vault deployments The closure has an IP68 rating for below grade water protection.

2. PRODUCT DESCRIPTION

FISC-H is a terminal splice closure with up to 8 drop hardened OptiTap compatible drop ports on either side of the unit up to 16 total. Configurations are available with 2, 4, 8, 12, or 16 terminal ports. There are 3 cable feed ports on each side of the housing. The unit can accommodate fiber cables ranging from 3 to 18 mm in diameter (0.12" to 0.71") through use of different sized grommets.

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2.1. Product Dimensions

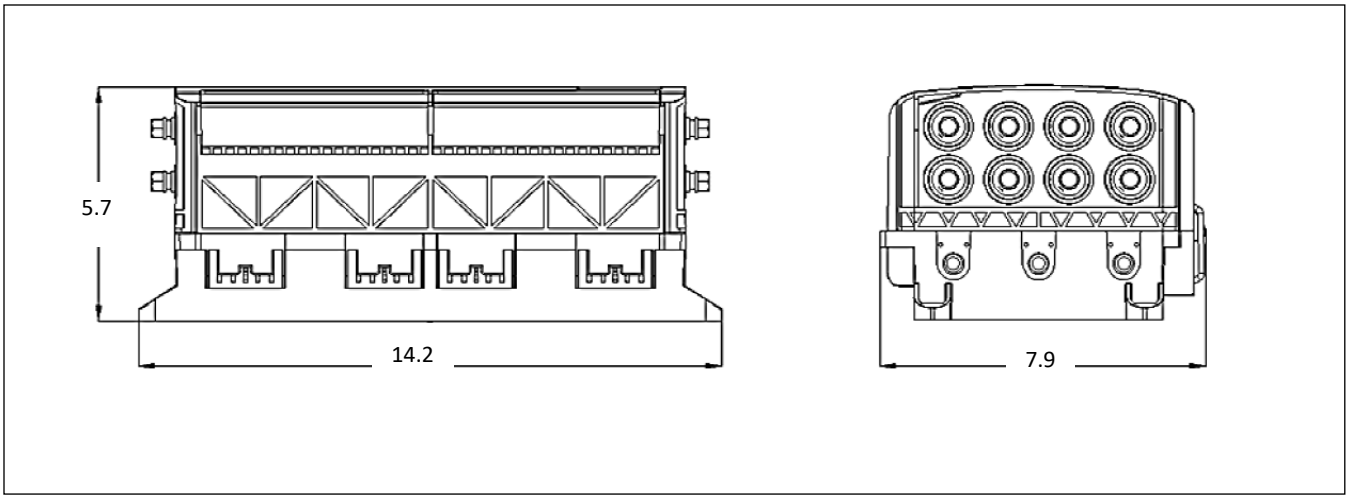


Figure 2 FISC-H Dimensions

3. SAFETY PRECAUTIONS

— WARNING—

Risk of serious eye damage! Never look into the end of a fiber optic line or use a magnifier in the presence of laser light or radiation. Exercise caution when installing, testing or maintaining live circuits. If eyes are exposed to laser light or radiation occurs, immediately seek treatment by a medical professional.

— WARNING —

Cable and fiber cleaning solvents may contain hazardous or harmful materials. Maintain good housekeeping practices and refer to the SDS when working with cleaning solvents or similar products.

Shards and cleaved glass fibers are very sharp and can easily pierce the skin. Use tweezers to pick up cut glass fibers and place them in a specifically designated container. Do not consume any food products near the cable installation site.

Corrugated metal or armor in feed cables is very sharp when cut or exposed. Exercise extreme caution to prevent personal injury. Use protective work gloves when handling armored cable.

— CAUTION —

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

Be careful not to damage any buried cables or service wires while digging either to expose cables or to prepare a hole or trench, or while driving stakes. Buffer tubes and fibers are sensitive to excessive bending, pulling, and crushing forces. To avoid kinking of buffer tubes and fiber damage or breakage, exercise great care when working with fiber, and do not exceed or violate minimum bend radius requirements for fibers, buffer tubes, and cables.

4. INSTALLATION

Gather the following tools for FISCH cable installation and splicing

- Philips and flathead screwdrivers
- Measuring tape
- Cable marking tool
- Assorted cable ties
- Sharp knife and/or snips
- Buffer tube stripper tool (score/cut buffer tubes)
- Fiber optic stripper tool
- Fiber splicing tools and equipment
- Safety glasses and work gloves
- Accessories bag (included with FISC-H)

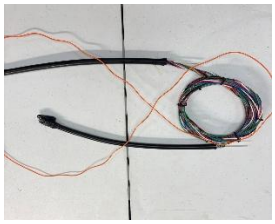
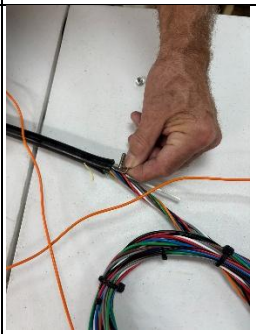
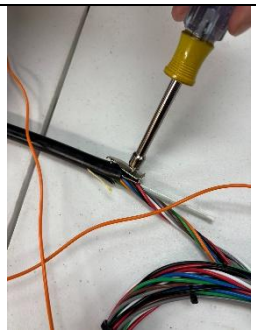
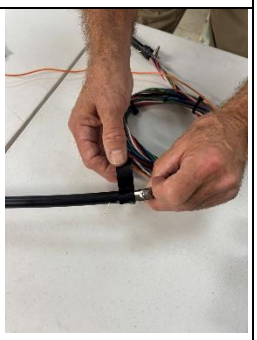
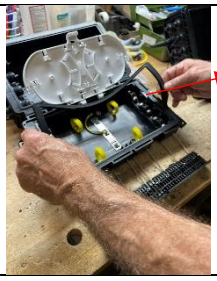
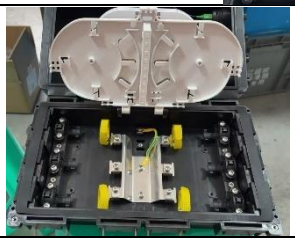


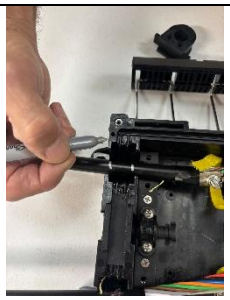
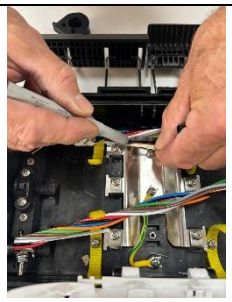
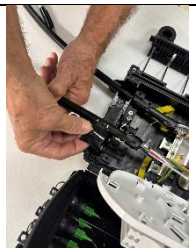
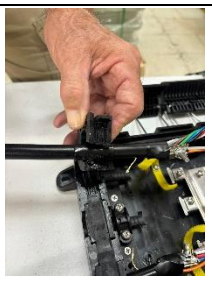
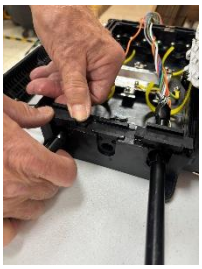
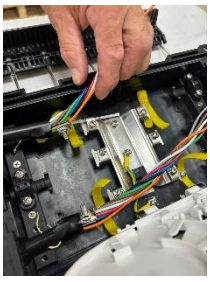
Accessories included with the closures

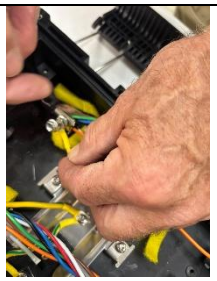
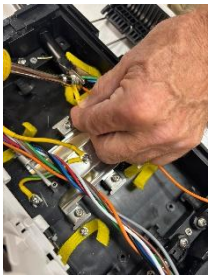
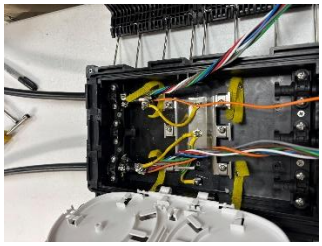
- Hose clamps
- Shield bond connectors
- Ground wires
- Transportation tubing
- Sealing tape
- Electrical tape
- Splice protection sleeves
- Extra grommets
- Cable ties
- Sealing gel



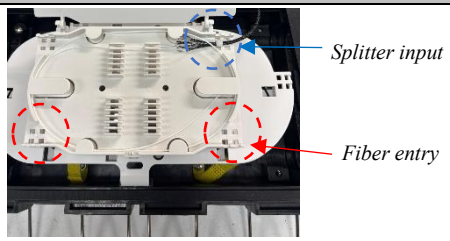
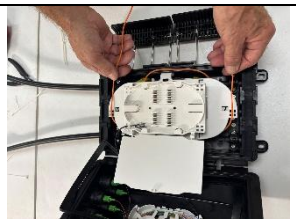
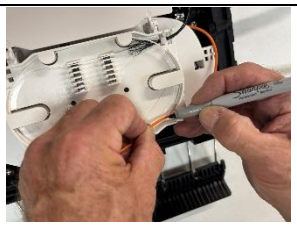
4.1 Installing Feed Cable

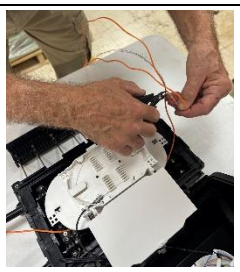
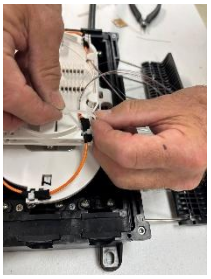
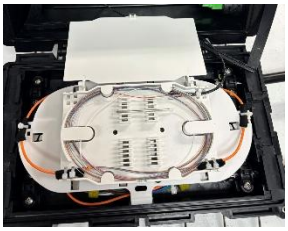
Step Number	Pictorial	
1	Open the unit by placing a flathead screwdriver in the appropriate slots	
2	Cable Preparation Cut and unsheathe the cable to be installed following company practice. For express cable, unsheathe up to 7ft max. for 144F loose buffer tube cable and up 8ft for 96F loose buffer tube	
3	Armored Cable If using armored cable, add the shield bond clamp connectors. a. Insert the bottom clamp into the jacket. b. Add the top clamp and tighten bolt with 3/8 inch nut driver. c. Use electrical tape over the end of the bond clamp for protections	  
4	Lift and remove the sealing gasket around the base. Put the gasket aside. Some configurations come with pre-installed splitters. If there is a pre-installed splitter, the gasket will stay in the case and place it out of the way	  
5	Lift the tray assembly to expose the base and fiber storage area	
6	Cable grommets Select the grommets based on cable diameters. Ports are prepopulated with grommets. If a different sized grommet is needed, then take it from the accessories bag.	Grommets available: • 3-7mm • 8-12mm • 10-14mm • 14-18mm • 12-16mm 

7	Cable marking Remove the cable clamp from the port. Next remove grommet from the port and align the cable with the exposed section of the strength member matches up with the strength member retention bracket. Mark the cable where it will sit in the port and market the strength member where to cut the excess.	 
8	Grommet preparation Remove the grommet from the port and slit it on the side. The grommets in the ports have been installed with sealing gel. If using a grommet from the accessories pack and there is not adequate sealing gel left in the port, it is recommended to add sealing gel to the grommet when installing into the port	 
9	Sealing tape Use of sealing tape is recommended to ensure IP68 across a range of cable sizes. Add one or two wraps of sealing tape around the cable jacket section that will go into the port depending on the OD compared to the grommet opening size. For pedestal, pole, or aerial deployment, sealing tape use is not critical	 
10	Grommet installation Place the cable with the grommet into the port and press into place. Slide the strength member under the strength member clip as the cable is inserted.	  
10	Cable attachment a. Tighten the strength member clamp with Philips head screwdriver. b. Install and tighten included hose clamp around the cable. c. Re-attach the plastic cable clamp. Use of hose clamps and cable attachment clamps ensure GR level cable retention,	  

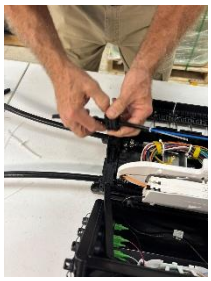
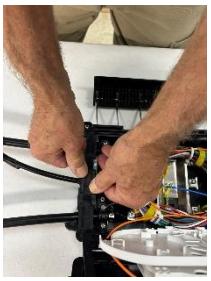
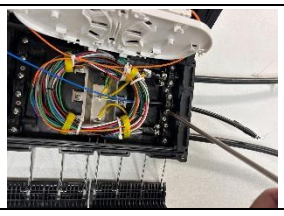
11	Armored cable bonding Attach an included ground wire to the bond clamp connector. Attach the other end to any screw on the metal ground bar in the center of the base. It is useful to angle the bond clamp stud	 
12	Completed cable installation	
13	Storing cable The cable is looped and stored in the basket using Velcro straps and cable ties. A maximum. of 7 feet of 144F (11 buffer tubes) can be stored in the base. The fiber tube to be spliced is taken out of the loop and will be routed into the tray.	

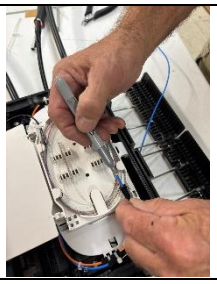
4.2 Routing Fiber into Splice Trays and Splicing

Step Number	Pictorial	
0	Splice Tray Each splice tray has 12 splice slots and can hold 24 splices double stacked. There are entry points on each of the four corners of the tray.. The two bottom entry points will provide the best routing of buffer tubes into the tray. The splitter input was previously placed in one of the top entry points	
1	Place fiber in routing position and mark the area that will enter the tray.	 

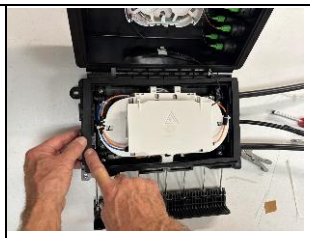
2	Open the buffer tube jacket with a buffer tube slitting tool and remove to expose fiber that will be spliced and stored in the tray Secure the buffer tube jacket to the tray entry point with felt and cable ties.	 
3	Perform splicing of the fibers that are to be spliced. Store extra fiber in the tray	
4	Showing proper storage of cable slack in the storage area which minimizes any cable movement when lifting the tray assembly	

4.3 Adding a Branch Cable

1	Additional cables should be installed and routed as shown in steps 4.1 Unsheathe 36 to 48 inches of the branch or lateral cable. Mark the cable where it will be placed in the open port.	
2	Select, slit and place the cable in the grommet and attach like performed in steps 4.1.7 – 4.1.10	  
3	Showing installed branch cable in the center cable port	

4	Route branch cable tube into the tray following steps 4.2.1 – 4.2.4. Note: One of the previously entered tubes will need to be untied and retied together with the additional tube of the branch cable.	 

4.4 Closing and Sealing the Case

1	Replace the gasket in the slot in the base. Close the latches with a flathead screwdriver.	  

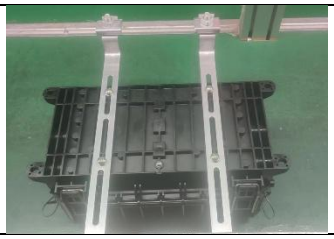
4.5 Adding Drop Cables

1	FISCH has OptiTap compatible drop ports. Hardened drops can be attached without need to open the case. To add a drop, unscrew the dust cap on the port and the drop cable assembly. Then screw the drop into the desired port. Attach the dust cap of the connector to the dust cap of the port. *Note: be sure the connector interface on both ends are properly cleaned before attaching drops.*	 

4.6 Adding OptiTap Compatible Ports

1	Empty ports are filled with plugs. Upgrade kits are avaialble to add the number of OptiTap ports in the field. The plugs can be removed and OptiTap adapter can be added. For example to upgrade a 4 port to 8 port unit.

4.7 MOUNTING THE FISC-H

0	The FISC-H Closure can be deployed aerially on a strand, in a pedestal, or on a pole or wall. It can also be mounted below grade in a vault or hand-hole.	
1	**Aerial Mounting** Adjustable strand brackets are available to mount to a 1/4” to 3/8” aerial strands Mount the brackets to the back of the unit with the included mounting screws	
2	**Pedestal Mounting** The FISC-H can installed in several Charles Pedestals including: **CPLM 10**: For the CPLM 10, attach bolts through the top mounting ears of the closure through the mounting holes in the CPLM backboard. A ground wire can be run from the back of the FISC-H through openings in the backboard to the ground bar on the backboard. **Z06SS07-20000BK**: The FISC-H can be offset mounted directly to the stake in the Z06	 
3	**Below grade** FISC-H is IP68 rated and has been tested to 2m water immersion for 7 days. Thus it can be used in hand-holes and vaults such as Charles P173018ABGTHXXX 17” x 30” light duty hand-hole.	

5.TECHNICAL ASSISTANCE AND REPAIR SERVICE

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

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

6. PART NUMBER INFORMATION

Ordering Number	Description	Standard pack	Pallet Quantity
FISC04H48SXX	4 OptiTap ports and 4 plugs on one end	6	108
FISC08H48SXX	8 OptiTap ports on one end	6	108
FISC12H48SXX	8 Optitap ports on one end and 4 other end	6	108
FISC16H48SXX	8 OptiTap ports on each end	6	108
FISC04H48SPG	4 OptiTap ports and 4 plugs on one end with 4-way pigtail kit	6	108
FISC08H48SPG	8 OptiTap ports on one end with 8-way pigtail kit	6	108
FISC12H48SPG	12 Optitap ports on one end and 4 other end with 12-way pigtail kit	6	108
FISC04H48S104A	4 OptiTap ports and 4 plugs on one end with 1x4 PLC splitter	6	108
FISC08H48S108A	8 OptiTap ports on one end with 1x8 PLC splitter	6	108
FISC16H48S116A	16 OptiTap ports with 1x16 PLC splitter	6	108
97-FSDCSAMKT	Aerial bracket kit for FSDCH, FSDCS	10	N/A
97-OPT02ADPT	OptiTap upgrade kit with 2 OptiTap adapters	10	N/A