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FDC® Connector Modules and Panels

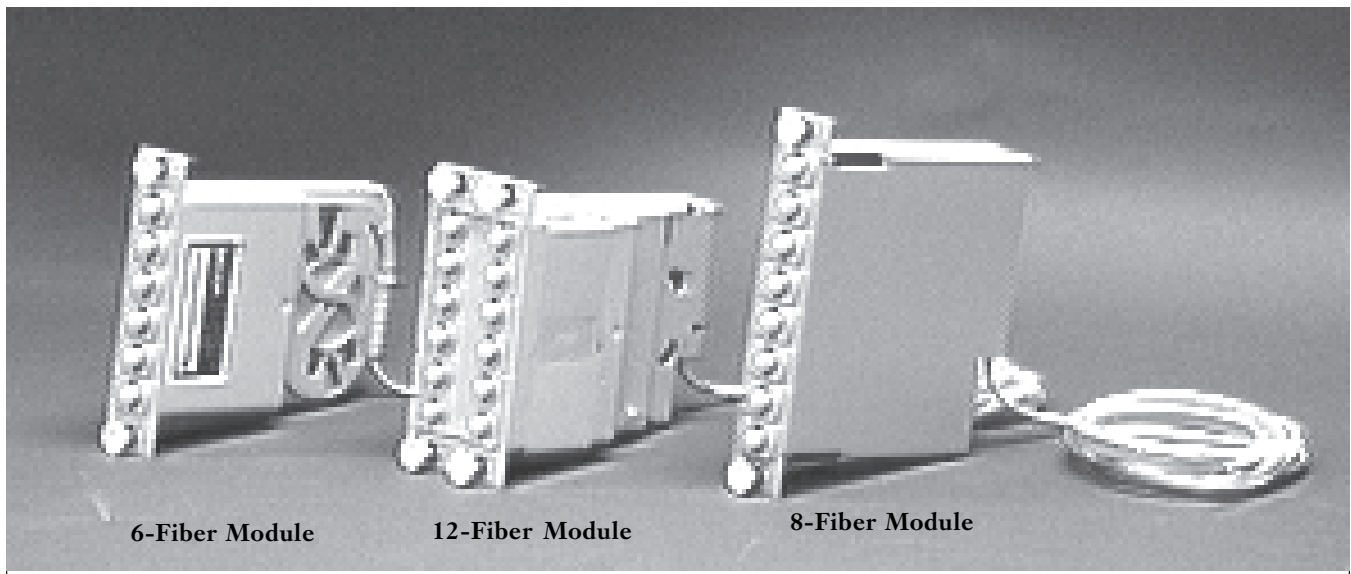


Figure 1

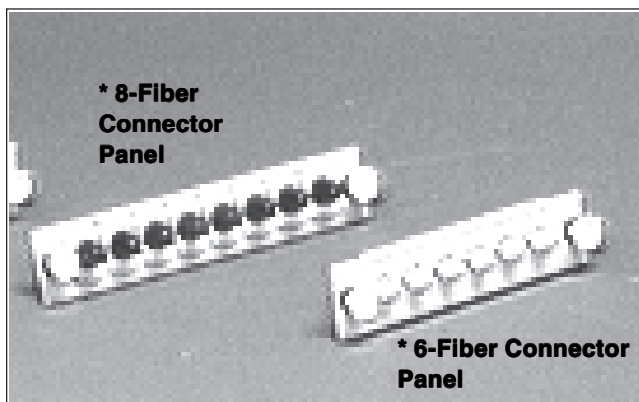


Figure 2

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1. General

- 1.1 This document describes the installation and maintenance of FDC Connector Modules and Panels.
- 1.2 This document is being reissued to include updated corporate information.

2. Description

- 2.1 FDC Connector Modules are designed to provide cable strain-relief, slack fiber storage, connectors, and various adapters within a modular housing (Figure 1).
- 2.2 FDC Connector Panels are designed to secure various adapters (Figure 2) in a snap-in/snap-out panel.
- 2.3 Connector modules and panels are typically shipped completely assembled with adapters and connectorized pigtails (typically only in modules) installed per customer specifications. These units are easily installed into an FDC compatible housing and their pigtails routed to a splice tray (see Module/Panel Installation).
- 2.4 Connector modules and panels can also be ordered without connectorized pigtails or adapters.

This allows the customer to add his own adapters and terminate a connectorized cable into a module or panel (see Connector Installation).

3. Precautions

CAUTION: NEVER LOOK DIRECTLY INTO THE END OF A FIBER THAT MAY BE CARRYING LASER LIGHT. Laser light may be invisible. Laser light can damage your eyes. Viewing it directly does not cause pain. The iris of the eye will not close involuntarily as when viewing a bright light. Consequently, serious damage to the retina of the eye is possible. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.

CAUTION: DO NOT use magnifiers in the presence of laser radiation. Diffused laser light can cause eye damage if focused with optical instruments. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.

NOTE: Fiber optic cable is sensitive to excessive pulling, bending and crushing forces. Consult the cable specification sheet for the cable you are installing. DO NOT BEND CABLE MORE SHARPLY THAN THE MINIMUM RECOMMENDED BEND RADIUS. DO NOT APPLY MORE PULLING FORCE TO THE CABLE THAN SPECIFIED. DO NOT CRUSH THE CABLE OR ALLOW IT TO KINK. Doing so may cause damage that can alter the transmission characteristics of the cable. The cable may have to be replaced.

CAUTION: ISOPROPYL ALCOHOL is Flammable. Flashpoint is 50°F. Can cause irritation to eyes on contact. In case of eye contact, flush eyes with water for at least 15 minutes. Inhaling fumes may induce mild narcosis. In case of ingestion, consult a physician.

4. Components

4.1 Figure 3 shows the major components of a twelve fiber FDC Connector Module. The module format, type of adapters, and type of pigtail cable is specified by the customer.

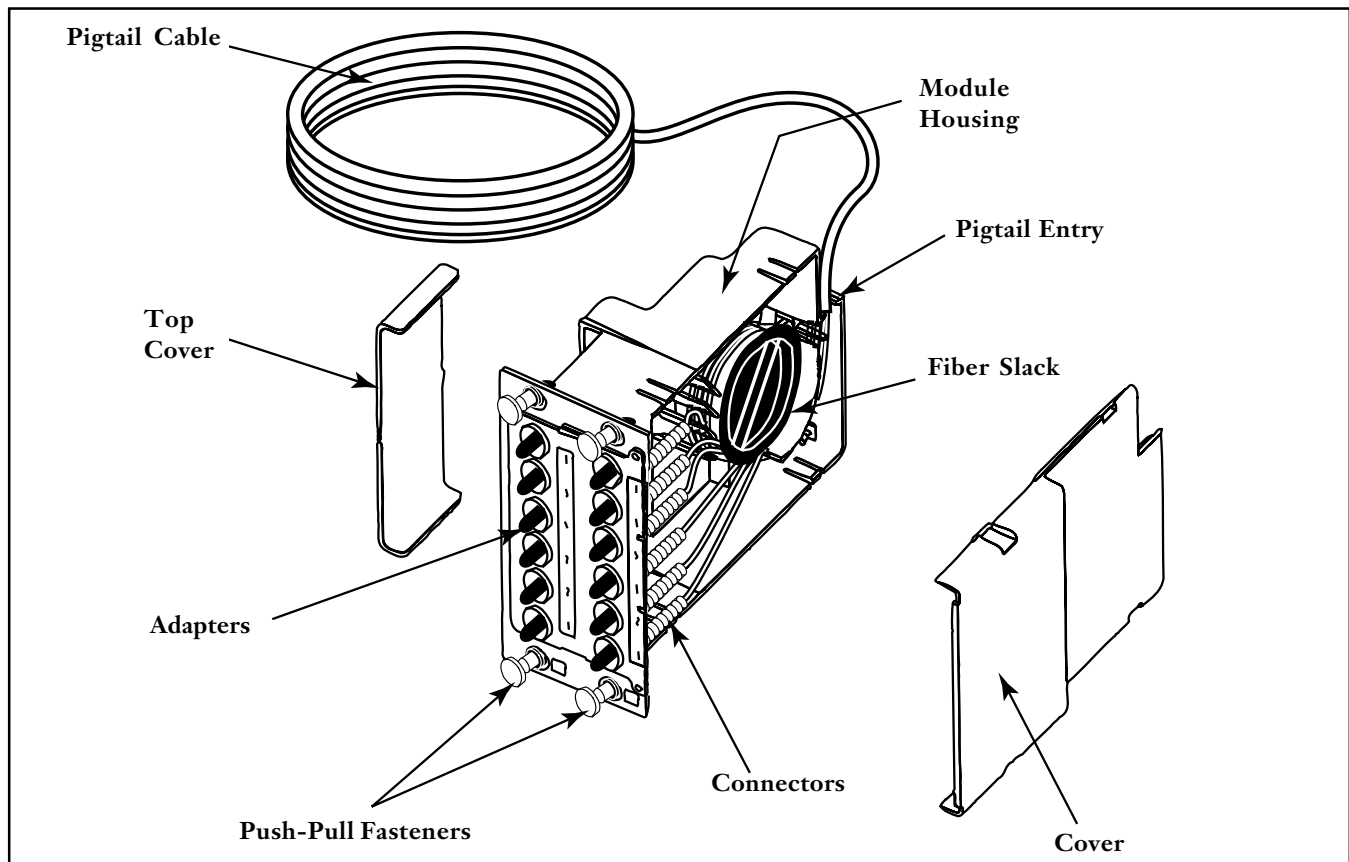
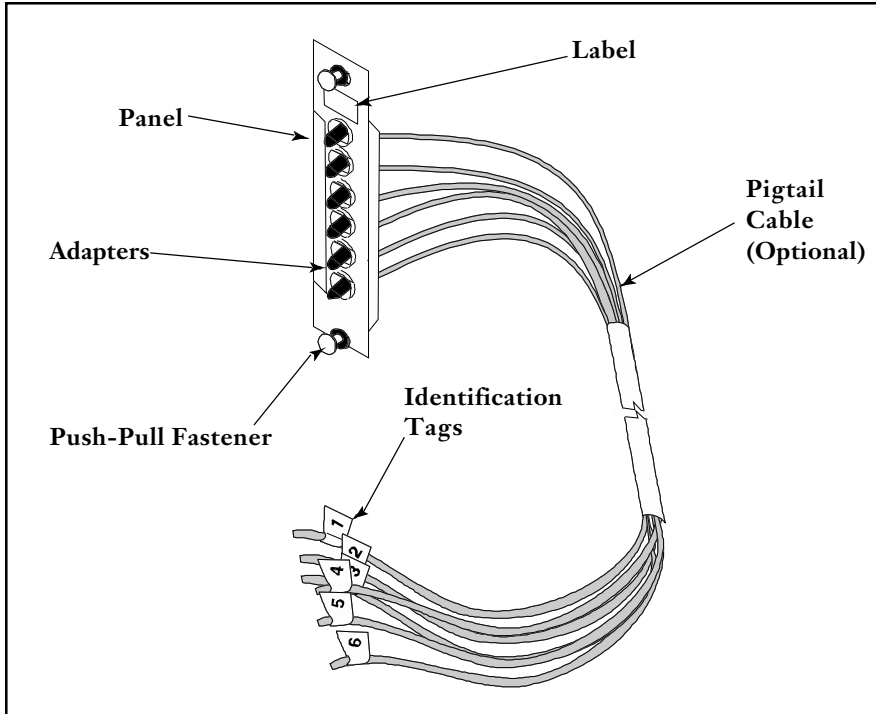


Figure 3



4.2 Figure 4 shows the major components of an FDC Connector Panel. The panel format, type of adapters, and type of pigtail cable is specified by the customer.

NOTE: *FDC Connector Modules and Panels must be installed into FDC compatible housings. For ease of identification and consistency, multiple connector modules and panels should always be installed from left to right. Refer to the instructions received with your housing for any special installation instructions.*

Figure 4

5. Module/Panel Installation

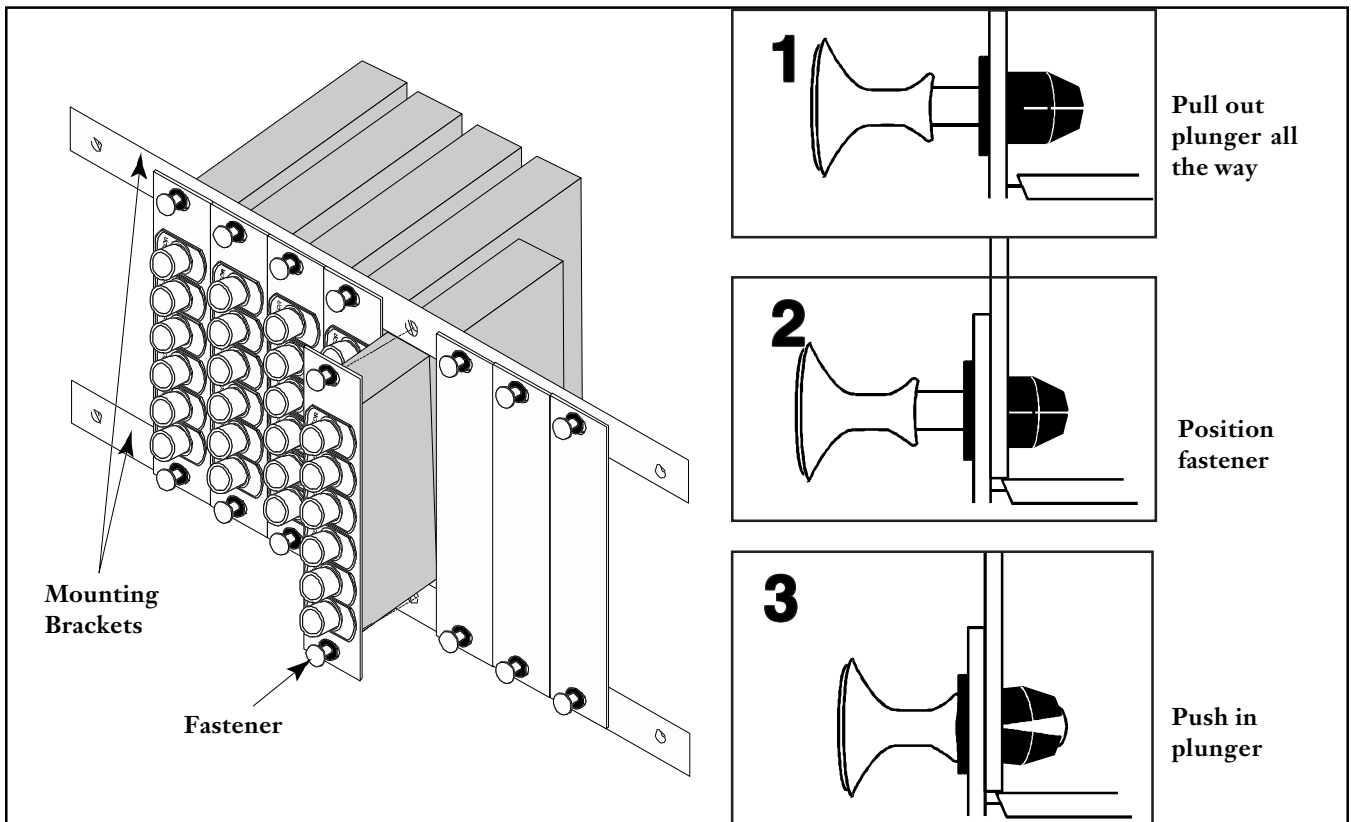


Figure 5

5.1 Remove a blank panel that may occupy the mounting position by pulling on its push-pull fasteners (Figure 5).

5.2 Carefully feed the pigtail fibers through the opening between the module/panel mounting brackets (Figure 5).

5.3 To secure the connector module or panel to the housing, locate the push-pull fasteners into the proper mounting bracket holes and push in all the fastener plungers until they lock into place (Figure 5).

FIBER COLOR CODE	
COLOR	FIBER
BLUE	1
ORANGE	2
GREEN	3
BROWN	4
SLATE	5
WHITE	6
RED	7
BLACK	8
YELLOW	9
VIOLET	10
ROSE	11
AQUA	12

Figure 6

5.4 Adhere the correct module identification tag to the face of the module or panel and to its corresponding pigtail (Figure 4). If excess pigtail fiber length is removed, reattach an identification tag to the new pigtail working length prior to fiber removal.

5.5 Carefully route the pigtail fibers to the splice point as described in the instructions received with your housing. Splice fibers as described in the manufacturer's instructions for the splice tray you are using.

NOTE: *Each pigtail fiber is color coded to identify the connector location on the module or panel (Figure 6).*

6. Connector Installation

NOTE: Refer to *Connector Care* for connector mating and removal instructions.

6.1 Remove module covers and disconnect any cables.

Universal Connector Adapter
(U.S. Pat. No. 4,834,486)

Faceplate is part of panel/module on some units

Connectors and sleeves are held in place in the connector panel by universal adapters. The Universal Connector Adapter is a device that allows you to install a number of adapters types into a connector panel.

To install a connector, position the connector into the side of the adapter body that will hold it. Next, slide the adapter faceplate into the panel or module. Then, snap the body into the faceplate so that the connector sleeve fits snugly between the body and the panel or module.

To separate the adapter faceplate from the body, bend out one of the faceplate tabs and twist the body out.

SMA Adapter Flange
An SMA type connector requires the addition of an adapter flange (P/N 05-410-81) included.

Biconic Type **FC Type**

ST Compatible **D4 Type**

SMA Type

Figure 7

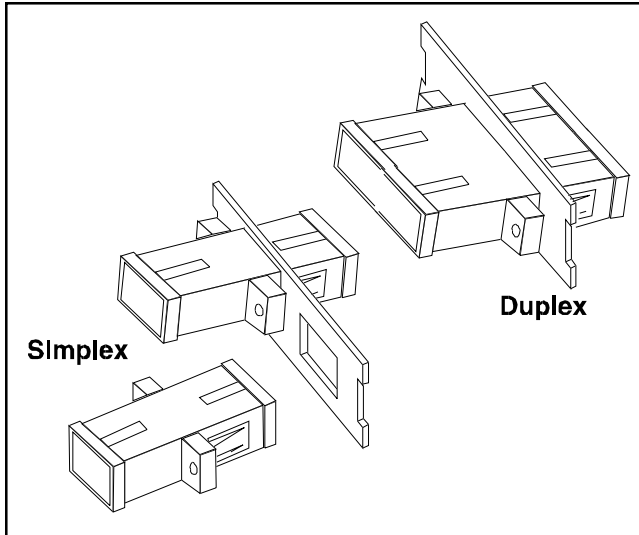


Figure 8

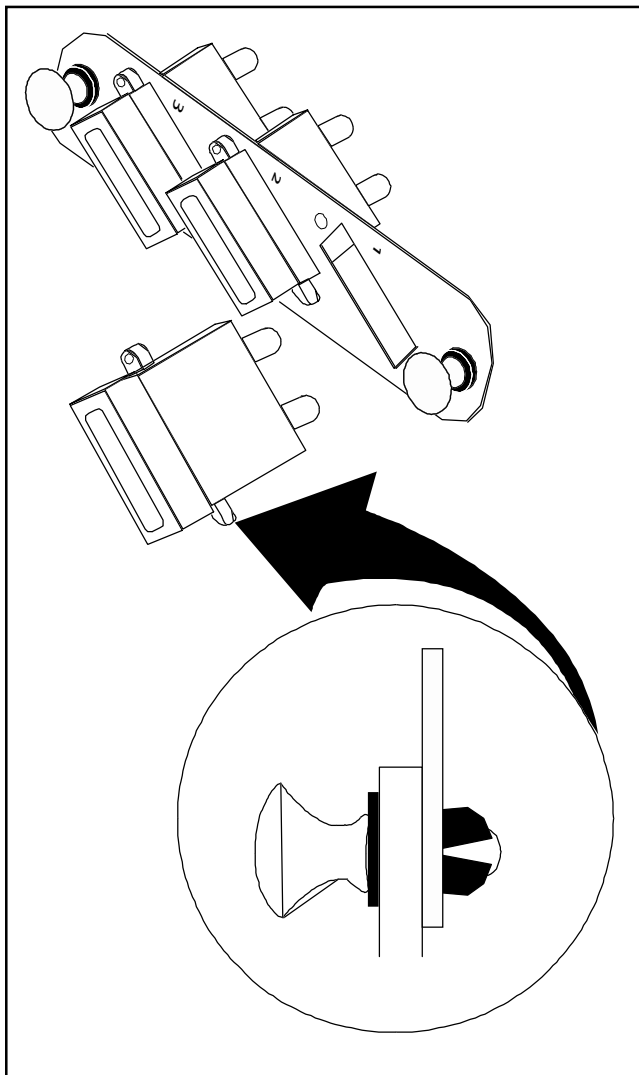


Figure 9

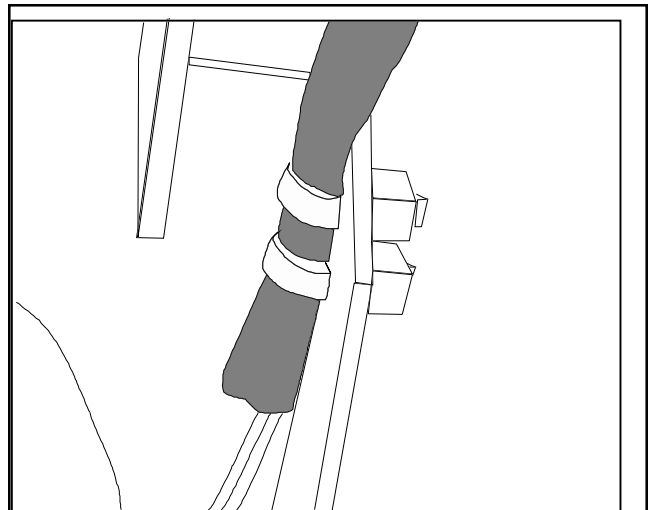
6.2 Identify the type of sleeve you are using (Figures 7, 8 & 9). Replace or install the required sleeves using the proper instructions.

6.3 Remate existing connectors or install cables as described in Cable Installation.

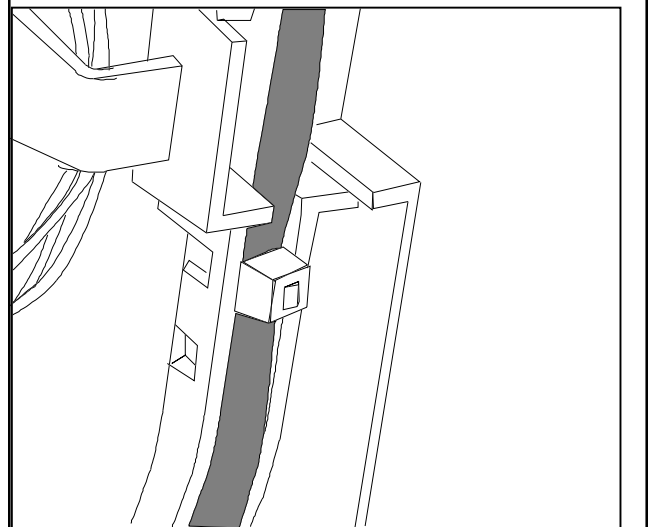
6.4 Replace covers and install module as described in Module/Panel Installation.

7. Cable Installation (Modules Only)

7.1 Remove the module cover.



Metal Module



Plastic Module

Figure 10

7.2 Strain-relieve tight-buffered cables into modules using tie wraps.

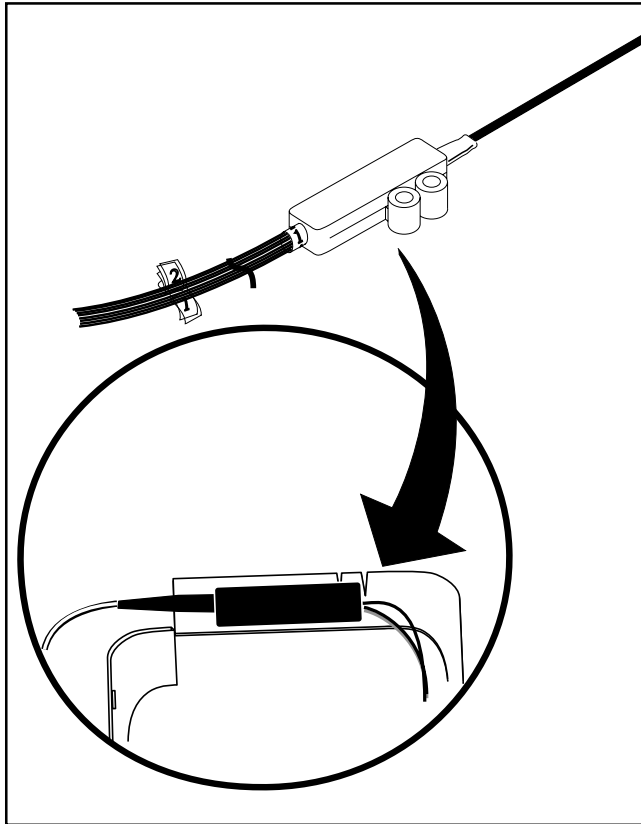


Figure 11

7.3 Strain-relieve ribbon or loose-tube cables into 12-fiber modules using Fanout Assembly (Figure 11).

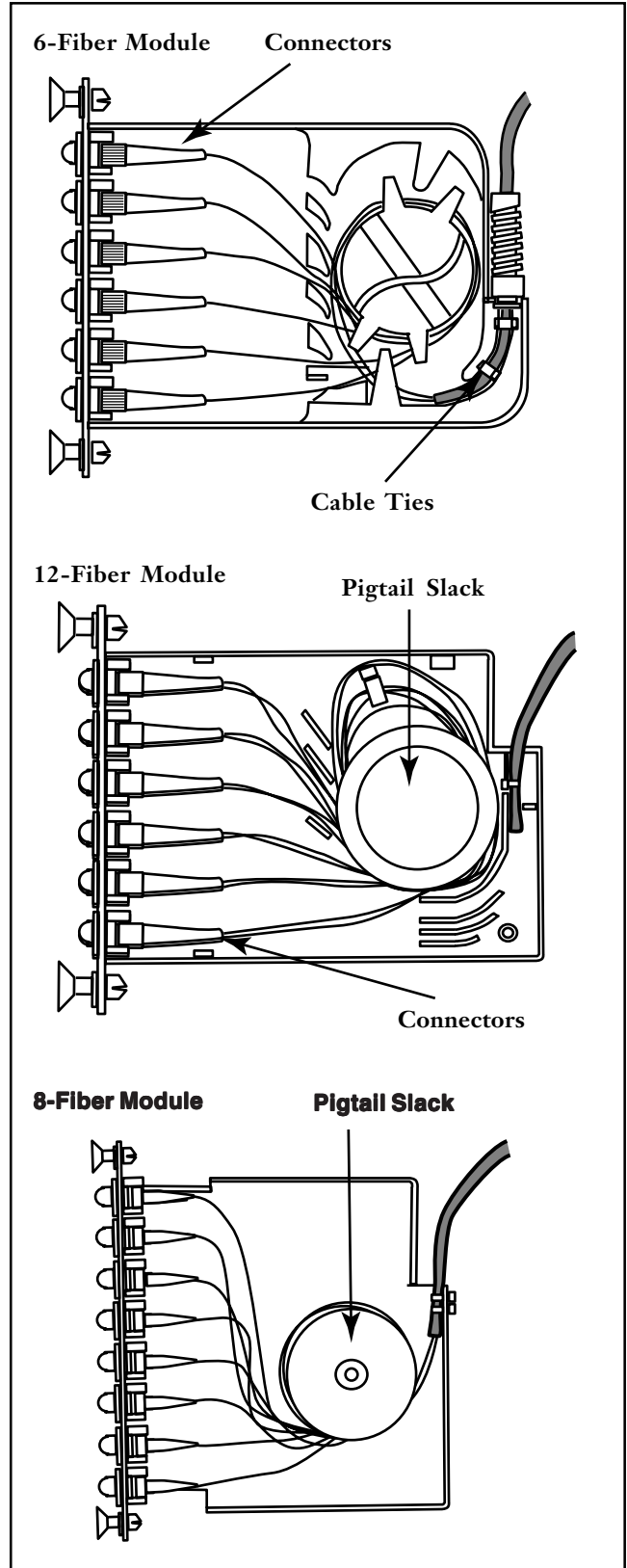


Figure 12

7.4 Route slack fiber inside modules.

7.5 Mate connectors per Cable Handling, replace covers, and install module per Module/Panel Installation.

8. Connector Care

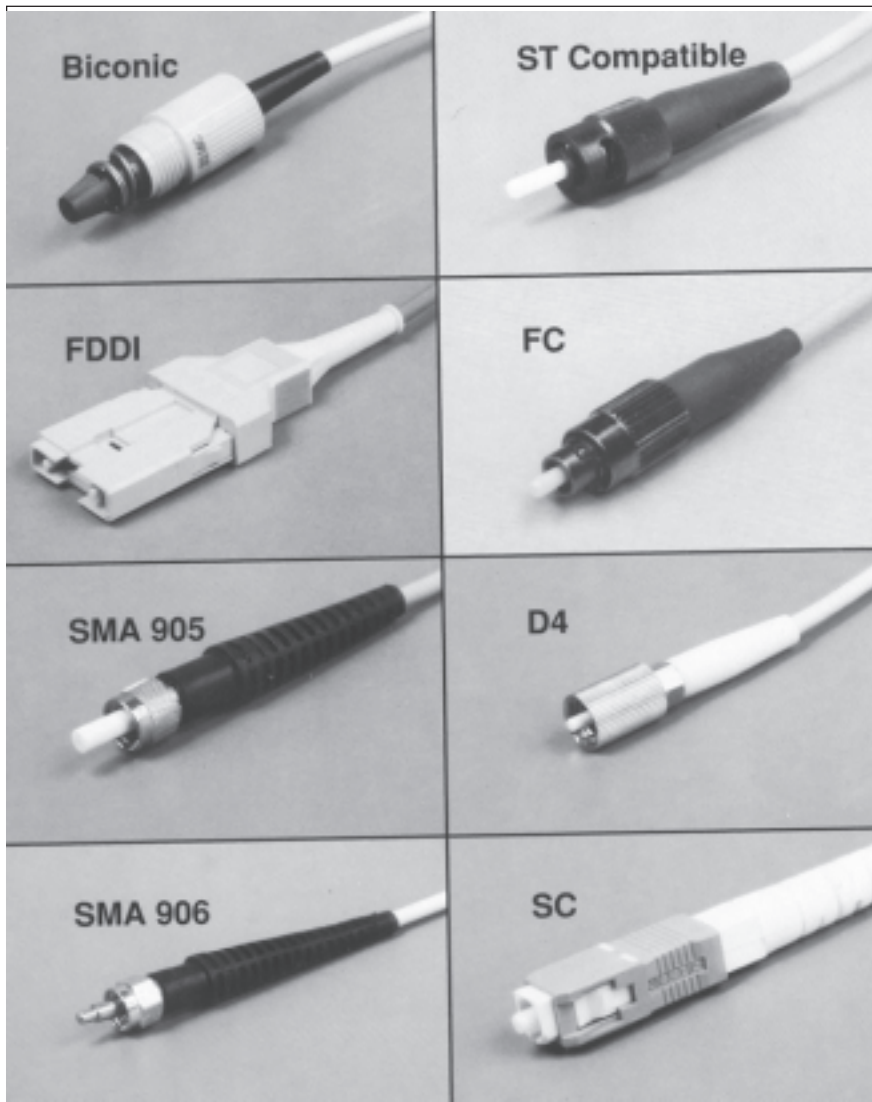


Figure 13

8.1 Proper care of fiber optic connectors requires Kimwipes® wipers, isopropyl alcohol, and compressed air.

8.2 Keep all connectors clean. Replace protective dust caps on connectors when not in use.

8.3 Clean the connector end with a lint free tissue soaked in isopropyl alcohol. Wipe with a dry tissue. Blow dry with compressed air before mating.

8.4 Single Fiber Connectors: Insert the connector into a clean interconnect sleeve. If the connector has a threaded coupling, screw or rotate it until finger tight. Do not overtighten - damage to the connector may result.

8.5 FDDI Connectors: Apply proper keys and labels. Push the assembly into its receptacle until it clicks into place. Do not force the connector — if it binds, check the connector keys and receptacle for compatibility.

8.6 SMA 906: Make sure that a sleeve is on the connector before mating (white to mate with equipment or a 905 connector; red to mate with another 906).

8.7 Biconic: DO NOT let the connector's plug rotate, or the cable to twist after contact with the sleeve or adjacent connector plug. Grip the rubber connector boot while rotating the backshell to prevent such twisting.

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