

KEYED AND UNKEYED BICONIC CONNECTORS

TYPES OF CONNECTIONS

Procedures differ for **keyed** and **unkeyed** biconic connectors. Before a biconic connection is made, it must be determined if it is keyed or unkeyed. **Keyed and unkeyed connectors may be mated together.**

A connection is **keyed** only if **both** the jumper plug and the buildout sleeve are keyed; only in this case does the plug key engage with the buildout slot. If either the plug or the buildout is unkeyed, such connections must be treated as **unkeyed** because there will be no key/slot engagement.

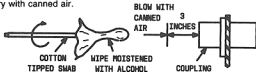
A simple rule for determining if a connection is keyed or unkeyed is as follows:

- If **both** plug and buildout are **green**, connection is **keyed**.
- If **either** plug, buildout, or coupling is **not green**, connection is **unkeyed**.

UNKEYED CONNECTIONS

1. Clean the plug tip and taper with a wipe moistened with alcohol and blow dry with canned air.

Clean the coupling/buildout by placing a wipe, moistened with alcohol, over a cotton tipped swab and rotate the swab while placed inside the coupling. Then, blow dry with canned air.



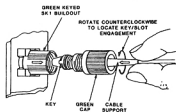
2. Holding the plug by the **threaded cap**, push the cap into the coupling and screw clockwise. At the same time, hold the cable support (boot) to prevent the cable from rotating.
3. Seat connector with a slight axial push on the cable support.



KEYED CONNECTIONS

1. Clean the plug and buildout same as for the unkeyed connection.
2. Hold the plug by the **able support (not by the cap)**. Insert and rotate **counterclockwise** until the key/slot engagement is felt.
3. Push the threaded cap into the buildout and screw clockwise.
4. Seat connector with an axial push on the cable support.

Confirm that the arrows on the buildout coupling and plug are aligned.

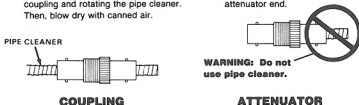


"ST" LIGHTGUIDE CABLE CONNECTORS

Several interconnecting couplings are available for joining the ST Lightguide Cable Connectors. The couplings include two panel-mountable versions and a nonflanged version.

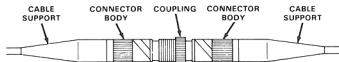
CLEAN CONNECTOR, COUPLING, AND ATTENUATOR

1. Clean the end and sides of the connector ferrule with a wipe moistened with alcohol and blow dry with canned air. **Important: If the connector tip is not thoroughly cleaned, the signal performance will be affected.**
Clean the coupling by placing a pipe cleaner, moistened with alcohol, inside coupling and rotating the pipe cleaner. Then, blow dry with canned air.
- Clean attenuator by air only.**
Hold air nozzle 3 inches from attenuator end.



INSTALLING COUPLING ON STANDARD VERSION "ST" CONNECTORS

1. Install the ST connectors onto the coupling by aligning the mark on the rim of the connector body with the slot in the coupling. Complete the connection by pushing the connectors onto the coupler with a clockwise twist-locking motion.
2. If a high-loss condition exists, use canned air to reclean the interior of the coupling, and reinstall the coupling as just described.
3. When doing rearrangements or reinsertions of an ST connector, blow any dust from the coupling using canned air; clean the connector tip with a wipe dampened with alcohol; and push the connector tip into the coupling after connection.



INSTALLING COUPLING ON POSITIVE-LOCKING VERSION "ST" CONNECTORS

1. The positive-locking connector provides a nonoptical disconnect feature when coupled together. It can be distinguished from the standard connector by the knurls on the metal portion of the cable support.
2. To install the positive-locking connector onto the coupling, loosen the cable support from the connector body and install the body onto the coupling as described in Step 1 of the Standard Version. Then, finger tighten the cable support to the connector body to lock the connector to the coupling.
Caution: With single-mode connectors, the positive-locking connector should be used only on one side of the coupling. The other connector must be a nonlocking type connector. This restriction does not apply to multimode connectors.
3. To disconnect the connector from the coupling, reverse the locking procedure by loosening the cable support before disconnection.