

Handling Recommendations

1 General Recommendations

Fiber Optic cables contain glass core. Care should be taken when handling this type of cables to avoid breaking of the glass fiber. Loose glass particles may cause injuries. Follow cable manufacturer's recommendations for the tensile pull and bend procedures.

2 Application precautions (for 2 and 3 mm Diameter Cable)

When routing the fiber optic cable:

- a. DO NOT pull the cable with a force exceeding the recommended tensile force of 70 N max.
- b. DO NOT twist the cable.
- c. DO NOT apply excessive tensile forces when routing around the corners.
- d. DO NOT bend the cable at less than the recommended bend radius. Typical 2 and 3 mm diameter cables use min. 40 mm radius.

3 Connector Cleaning Recommendations

a. Plugs (Ferrule End)

Use a commercially available (reel type) optical connector cleaner to remove any dust or contamination that may accumulate at the ferrule end.

b. Adapters (Split Sleeve Inside Surface)

Any contamination in the split sleeve inside surface should be removed with a (using rod) commercially available optical connector cleaner.

Extra care should be taken in the cleaning of products with lock mechanism in adapters, (for MU and SC connectors) to avoid deformation or breaking.

4 Connector Handling Recommendations.

1. FC Connectors (HRFC)

FC connectors use a twist-locking system. Align the keying slot of the adapter and the protruding guide of the plug when joining these connectors. Note: These connectors can be mated even when the guides have not been completely aligned. This condition will NOT produce satisfactory optical connection.

2. SC Connectors (HSC)

SC type connectors use a push-pull mechanism. Align the key slot of the adapter and the protruding key of the plug when mating connectors.

When connecting/disconnecting, hold the (blue) portion of the movable part of the outer housing.

Fully mated condition can be checked by listening for the audible "click" or by verifying that the white line printed on the plug is not visible.

Note: Partial mating may cause permanent damage of the adapter's locking mechanism.

3. MU Connectors (HMU)

MU type connectors use a push-pull mechanism and can be provided as single, duplex or a backplane multi-position system.

Fully mated condition can be checked by listening for the audible "click" or by verifying that the white printed on plug the is not visible.

Note: Partial mating may lead to permanent damage of the Adapter's locking mechanism.

To assemble and connect the back-plane side to the package side use the following procedure:

Install the back-plane components on both sides of the board.

Parts are polarized and will not fit incorrect. Attach 4 screws to secure all together:

Insert the Sleeve Holder into the package

side housing (1, 2 or 8 position) using tool # HMUB-TS-1.

The zirconia split sleeve is inside the Sleeve Holder. Assure that all are fully seated in the housing.

Secure the holder to the package side board:

Insert the HMU connectors in the back-plane and package side housings and mate them together.

Both sides will lock with audible sound.

Un-mating can be accomplished using the tool #HMU-TJ-1.

Backplane.

Package (daughter card) side : Install HMUAJ plug and attach Sleeve Holder to the plug.

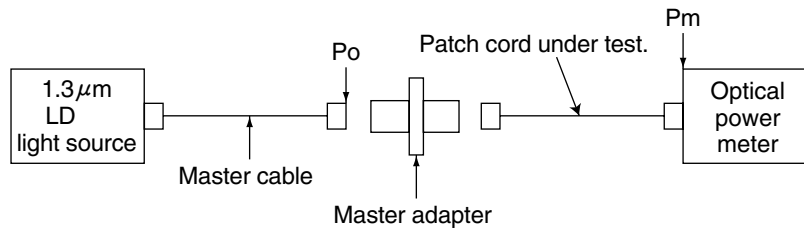
Before extract the HMUAJ plug, please detach Sleeve Holder with using Tool "HMUB-TS-I"

5 Insertion Loss and Return Loss Measurement Method

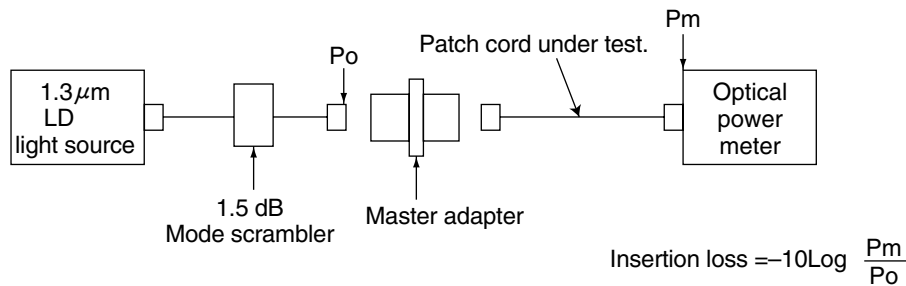
Insertion Loss and Return Loss of this catalog are specified with measurement method below.

(1) Insertion Loss

● SM Fiber



● GI Fiber



(2) Return Loss

