



Optical Connector Installation Guidelines

All fiber optic transceivers made by Stratos Lightwave, are precision instruments. To extend the life of the product, one must use caution when handling and installing connectors. Following is the list of procedures to ensure proper cable mating.

Connecting

1. **Do not** remove dust cover until immediately prior to mating.
2. Connector Installation

Clean the connector

- Always use a lint-free, alcohol dampened cloth to thoroughly wipe the side and end of the ferrule.
- Blow dry ferrule with compressed air.
- Visually inspect the ferrule for lint.
- After every demating cycle, clean and blow-dry the ferrule before remating.
- Do not interchange connectors from one unit to another unit without first cleaning the connector. Otherwise, it may cause transferring of small particles, which may cause damage to the product.
- If problems persist, clean the inside of the precision bore by gently rotating a lint-free swab with alcohol.

To insert the connector,

- Hold the connector by the strain relief boot directly behind the connector housing.
- Insert the connector into the unit in such a manner that any connector keying features are observed and properly mated.
- Verify the connector is completely mated. In the case of duplex connectors, both latching arms must "click" into the mating coupling transceiver.

Disconnecting

Grasp the connector housing and disconnect the housing from the unit. Cover connector ends with clean dust caps when not in use.

NOTE: As stated in applicable EIA/TIA specifications, the connector should be replaced after 500 mate/demate cycles.

WARNING: Do not insert a multimode ferrule into a single mode receptacle. Damage to the transceiver could result

REAGENT GRADE ISOPROPYL ALCOHOL AND CLEAN COMPRESSED AIR ARE RECOMMENDED FOR CLEANING.

Date: Tue, 9 Nov 2004 17:49:23 -0600
From: "Mercado, Bernard" <bmercado@stratoslightwave.com>
To: Tullio Grassi <tullio@Glue.umd.edu>
Cc: "Patel, Dipak" <dpatel@stratoslightwave.com>
Subject: RE: LC transceiver cleaning

Hello Tullio,

There shouldn't be any issues with damaging the device with the lint free swabs. Inside the barrel of the optical subassembly there is a sapphire ball lens. As long as the swabs you are using are non-abrasive, it will be fine. It would be a good idea to blow out the barrel with clean air afterwards.

Regards,
Bernard

-----Original Message-----

From: Tullio Grassi [mailto:tullio@Glue.umd.edu]
Sent: Tuesday, November 09, 2004 4:39 PM
To: Patel, Dipak; Mercado, Bernard
Subject: LC transceiver cleaning

Hi,

I have a question about cleaning of LC transceiver like the Stratos M2R-25-9.

In some cases we clean the inside of the precision bore by gently rotating a lint-free swab with alcohol. We normally use swabs of 1.25 mm diameter, that does not reach the lenses (or whatever emitting/receiving surfaces) as they are too thick. Now we found tapered swabs that could touch the lenses. Is there a risk to damage the device or is it ok to use them ?

Thanks,

Tullio Grassi

Date: Fri, 13 Feb 2004 18:42:39 -0600
From: "Mercado, Bernard" <bmercado@stratoslightwave.com>
To: tullio@umd.edu
Subject: Transceiver cleaning

Hello Tullio,

I apologize for not responding to you quicker. The dual receivers that you are using can be cleaned by blowing compressed air into the receiver optical subassembly. This should be adequate if you believe that dust has entered into the optics.

If you require additional information please contact me.

Regards,
Bernard Mercado
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