

## Continuity Testing For Intrafacility Fiber Cable (IFC) and Outside Plant (OSP) Cable Assemblies

### 1 GENERAL

These instructions provide information to perform continuity testing for Intrafacility Fiber Cable (IFC) or Outside Plant (OSP) cable assemblies. For detailed installation, assembly, and customer service information, refer to the applicable product user manual.

Following installation of the IFC or OSP assembly into the panel, the IFC or OSP assembly must be checked for continuity. This is important for two reasons:

1. It verifies that the connectors and the fibers were not damaged during the installation process.
2. It can detect incorrect connections within the IFC or OSP assembly.



**Danger:** Do not look into the ends of any optic fiber. Exposure to invisible laser radiation may result. Do not assume laser power is turned off or the fiber is disconnected at the other end.



**Caution:** Individual optical fibers are easily damaged. Always use care when unpacking and installing optical fiber cable assemblies.

### 2 CONTINUITY TEST PROCEDURE

1. Obtain a launch cable (patch cord) with the same fiber and connector type as the IFC or OSP assembly.
2. Obtain a 5mw HeNe Laser (outputs visible red light).
3. Clean both ends of the launch cable using the recommended cleaning procedure. Connect one end of the launch cable to the Laser.
4. Remove the dust cover from adapter No. 1 on the panel, then clean the adapter with clean compressed air.
5. Mate the opposite end of the cleaned launch cable to the equipment side of adapter No. 1.
6. The stub end of ribbon number “1” — fiber number “1” — should glow bright red. If it does not, either dirt is blocking the signal; or possibly the connector, fiber, or adapter is damaged. Clean the connectors and the adapter to determine which condition exists.
7. Repeat this procedure for the remaining adapters and connectors. Ensure that the launch cable connector and mating adapter are cleaned for each test.
8. If a continuity problem or an out-of-sequence condition occurs, contact the Technical Assistance Center listed on the back of this page.

### **3 TECHNICAL ASSISTANCE**

Contact the **Technical Assistance Center (TAC)** for technical question. Call 800.830.5056 or send an email to [TAC.Americas@commscope.com](mailto:TAC.Americas@commscope.com).