



# **AN-108**

Test Procedure for SC-LC Hybrid Cables (OPL-PRO 930)

### Overview

Testing duplex cables with unlike connectors can be both time consuming and messy without the proper procedure. The following test procedure will show how to best test duplex cables with unlike connectors—in this case, LC-SC— as well as having an organized and in-depth test report created through OPLPro 930 software.

## Test Procedure for LC-SC Duplex Cables (OPL-PRO)

Upon first switching on the OP930, it must have 10-15 minutes to warm up. During this warm-up time, verify that the OPM adapter is a universal 1.25mm adapter for referencing LC cables. This is because the duplex LC-SC DUT will test the SC endfaces first thus having the LC endfaces initially connected to the reference cable. Connect the FC/APC-FC/APC saver cable to the OP930 front panel connectors. Next, connect the FC/APC-LC/PC reference cable to the saver cable.

#### Setup

Start up the OPL-PRO930 software either through the Start menu or the shortcut on the desktop. To set up the serial number, navigate to Setup > Options and in the Measurement Setup tab, verify the Alphanumeric (32 char) option in the Serial Number Configuration is checked. Click close to exit and save these settings.

To enter header data, click **Enter Data Header**. A popup screen will allow the user to make any necessary header changes to the test report. Click **Save and Close** when finished making changes. The information will be automatically added to the Data file.

Verify that the correct Setup file, Parameter file, and Configuration are selected. Note that if using a Multimode system that the proper MMF configuration is selected.



Figure 3: Configuration change warning pop-up



Figure 1: Header information pop-up



Figure 2: Verfication of correct setup

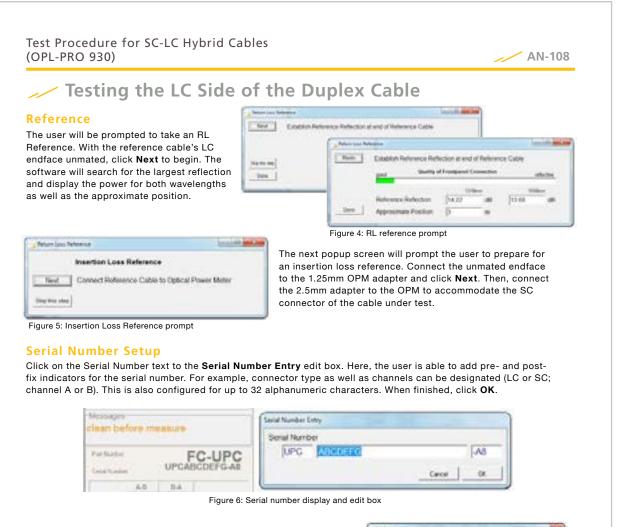
If a change is made, the user will be prompted to re-reference as shown in figure 3.

Otherwise, click Ref.

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#### Testing

be performed again.

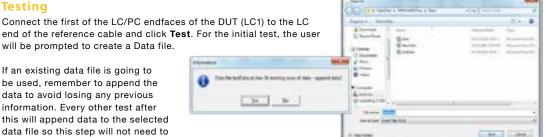
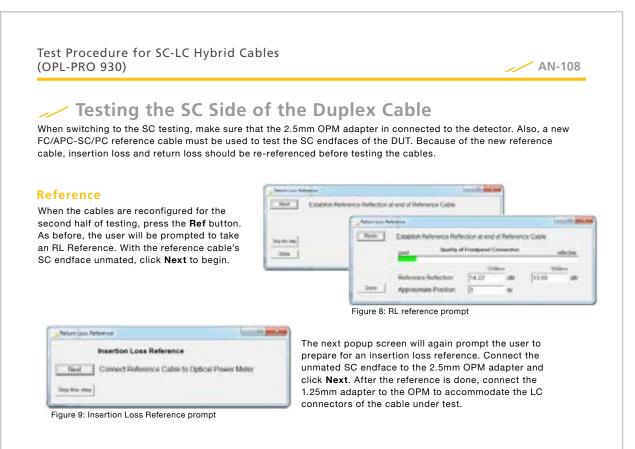


Figure 7: Showing if using an existing file you need to append the data

After the user has chosen whether or not to append the data, actual testing of DUT will begin. When the test has finished and passed, change to LC2 endface, edit the serial number to specify proper endface, pre-fix, post-fix, etc., and click Test.

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#### Testing

After making sure that the serial number properly specifies the endface, pre-fix, post-fix, etc., connect the first of the SC/PC endfaces of the DUT (SC1) to the SC end of the reference cable and click **Test**. When the test has finished and passed, change to SC2 endface, edit the serial number to specify proper endface, pre-fix, post-fix, etc., and click **Test**.

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