

Tutorial: How to Use a Project for Tests with OptiFiber Pro and CertiFiber Pro Modules

This tutorial assumes that you completed the tutorial *Make a New Project*.

In this tutorial, you will do OTDR tests on both fibers of a duplex fiber link, then you will add loss/length results to the OTDR results for the two fibers.

Figures 1 and 2 show the equipment necessary for this tutorial.

Note

Select launch/tail cords and test reference cords that have the correct connectors to connect to the OptiFiber Pro and CertiFiber Pro modules and to the fiber link or segment.

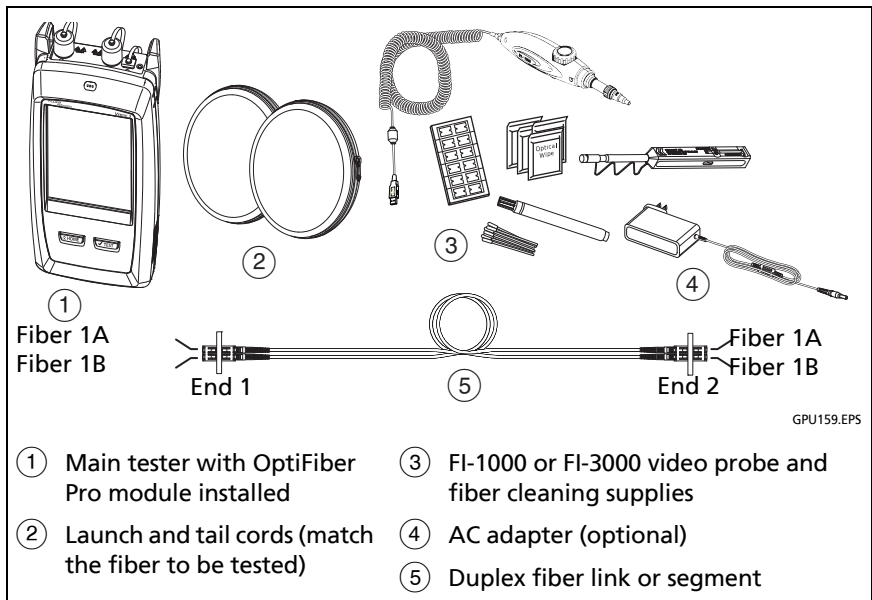


Figure 1. Equipment for the OTDR Project Tutorial

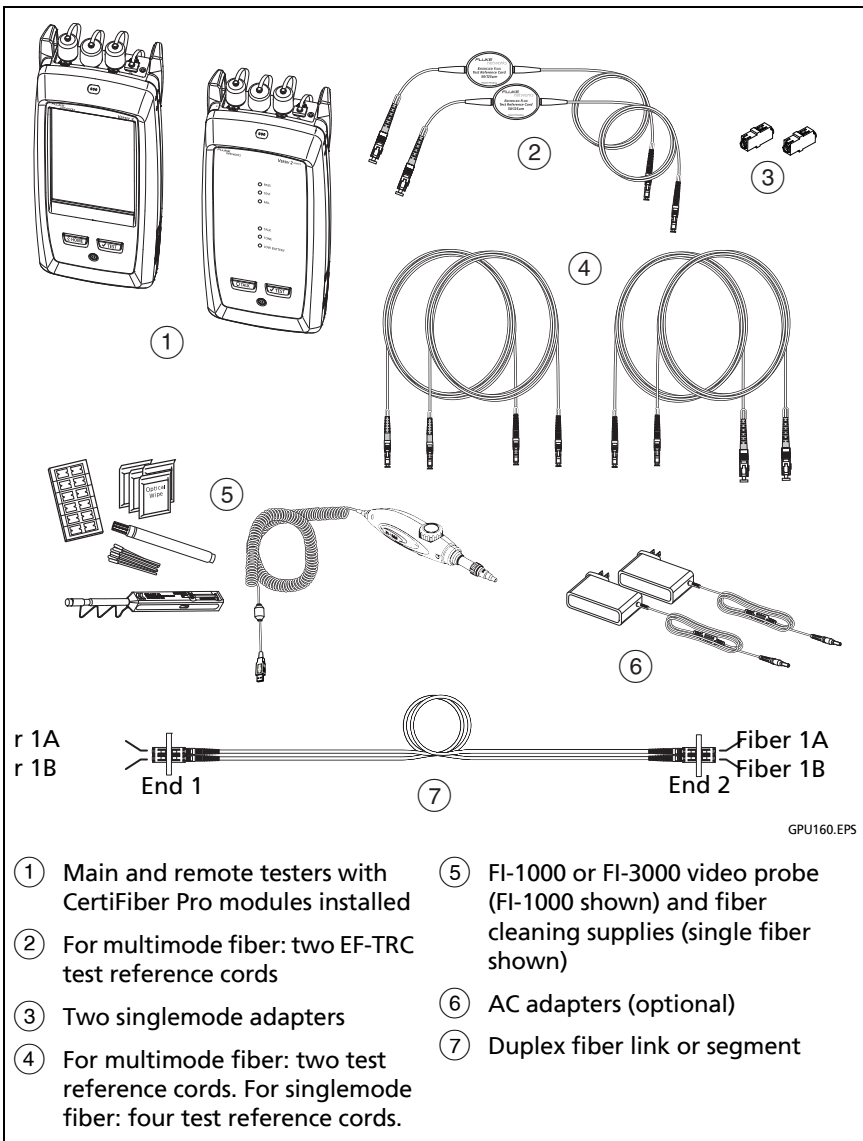


Figure 2. Equipment for the Loss/Length Project Tutorial

Step 1: Select a Project

If the correct project name does not show on the home screen, tap the **PROJECT** panel, tap **CHANGE PROJECT**, tap the name of a project, then tap **DONE**.

Step 2: Select an OTDR Test

On the home screen, tap the test type panel, on the **CHANGE TEST** screen, tap the **Auto OTDR** test you made, then tap **USE SELECTED**.

If the active ID set was not made for fiber media, the tester shows a warning. When you tap **OK**, the tester shows the **CHANGE CABLE IDs** screen, where you can select the correct ID set.

Step 3: Select the Correct ID and Fiber End if Necessary

The **Next ID** panel on the home screen shows the ID and fiber end that the tester will use the next time you save results. If the panel does not show the **Next ID** as 1A and **End 1**, select those settings:

To select a different ID set or fiber end

Tap the **Next ID** panel.

- To select a different ID set, tap **CHANGE CABLE IDs**, tap the correct ID set, then tap **USE SELECTED**.
- To select a different fiber end, tap the **End 1/End 2** control at the top of the **CHANGE CABLE IDs** screen to make it show the correct end.

Step 4: Do OTDR Tests on End 1 of the Link

- 1 Clean and inspect all fiber connectors.
- 2 Connect the launch cord to the tester and to **End 1** of fiber 1A. Connect the tail cord to the other end of fiber 1A.

- 3 Tap **TEST** or press . When the test is completed and if it passed, the tester automatically saves the results for **End 1** in ID 1A.
- 4 Connect the launch cord to the tester and to **End 1** of fiber 1B. Connect the tail cord to the other end of fiber 1B.
- 5 Tap **TEST** or press . When the test is completed and if it passed, the tester automatically saves the results for **End 1** in ID 1B.

Step 5: Do OTDR Tests on End 2 of the Link

- 1 On the home screen, tap the **Next ID** panel.
- 2 On the **CHANGE ID** screen, tap the **End 1/End 2** control to make **End 2** show.
- 3 In the ID set under **IDs Untested**, the ID 1A is highlighted because it is the first ID in the set that does not contain OTDR results for **End 2**.
- 4 Tap **DONE**.
- 5 Clean and inspect all fiber connectors.
- 6 Connect the launch cord to the tester and to **End 2** of fiber 1A. Connect the tail cord to the other end of fiber 1A.
- 7 Tap **TEST** or press . When the test is completed and if it passed, the tester automatically saves the results for **End 2** with the **End 1** results in ID 1A.
- 8 Connect the launch cord to the tester and to **End 2** of fiber 1B. Connect the tail cord to the other end of fiber 1B.
- 9 Tap **TEST** or press . When the test is completed and if it passed, the tester automatically saves the results for **End 2** with the **End 1** results in ID 1B.

Step 6: Add Results from a Loss/Length Test

Select the loss/length test to do next on fibers 1A and 1B.

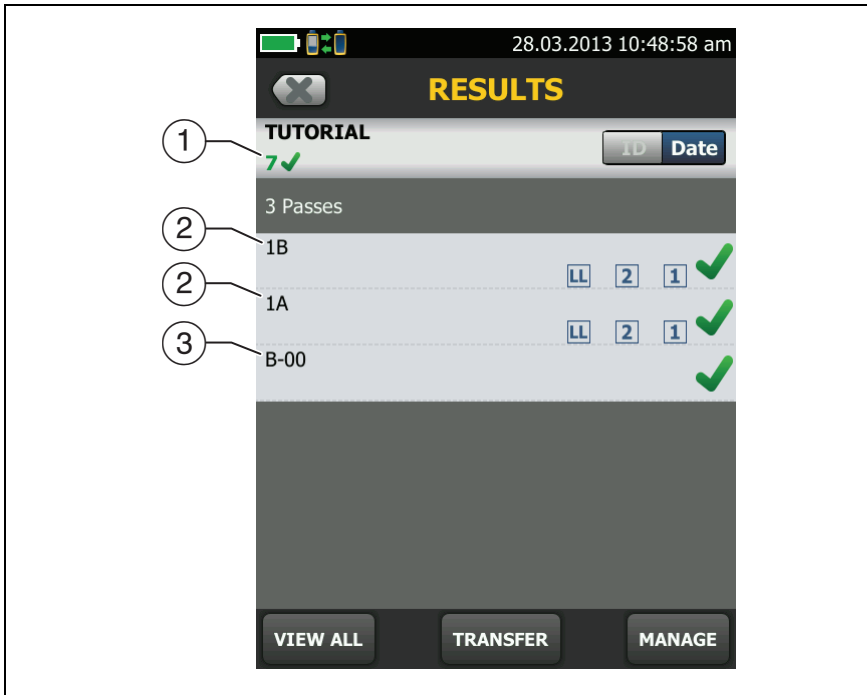
- 1 On the home screen, tap the test setup panel.
- 2 On the **CHANGE TEST** screen, tap the **Smart Remote** test, then tap **USE SELECTED**.
- 3 Attach CertiFiber Pro modules to the main and remote testers.
- 4 On the home screen, the **Next ID** panel shows the first two IDs, 1A and 1B, that do not contain loss/length results. To see how the tester uses the IDs for the fibers connected to its INPUT and OUTPUT ports, tap the panel.
- 5 Clean and inspect the connectors on the tester, remote, and test reference cords.
- 6 To set the reference for the fiber test and make sure your test reference cords are good, tap **SET REF**, tap **RUN WIZARD**, then do the steps given by the wizard.

Note

When you make connections to the fiber link, make sure you connect fiber 1A to the main tester's INPUT port and fiber 1B to the main tester's OUTPUT port.

- 7 When you have completed the reference and TRC verification procedures and connected the testers to the fiber link, tap **TEST** or press .

When the test is completed and if it passed, the tester automatically saves the results for the Smart Remote test with the OTDR results in IDs 1A and 1B. Figure 3 shows the **RESULTS** screen for the tests completed for this project.



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Figure 3. Copper, OTDR, and Loss/Length Saved in a Project

- ① Total number of tests saved in the project.
- ② IDs 1B and 1A each contain results from a loss/length test and from OTDR tests on Ends 1 and 2.
- ③ ID B-00 contains results from a twisted pair test.

Step 7: Monitor the Status of Your Project

The home screen shows % **Tested**, which is the percentage completed of the total number of tests you must do for the project.

In this tutorial you set up IDs for 42 tests total, and have completed these tests:

- One Autotest on twisted pair for ID B-00
- Four OTDR tests: **End 1** and **End 2** for each fiber ID 1A and 1B
- Two Loss/length tests: one for each fiber ID 1A and 1B
- Total tests completed: 7
- % **Tested** on the home screen shows **17%** (7 tests completed out of 42 total for the project)

To see the IDs that do not have results for a test:

- 1 Tap the **Next ID** panel on the home screen.
- 2 If the tester is in **Smart Remote** mode, next tap the **Input Fiber ID** or **Output Fiber ID** window.

For a list of fiber IDs, the ID list under **IDs Untested** shows the IDs that do not have results for the **End** selected at the top of the screen and the **Test Type** shown.

For a list of copper IDs, the ID list shows the IDs that you have not used.