Application Note MPLT-2 Field Testing of Direct Attach Modified Permanent Links Utilizing Fluke DSX-5000



Due to growing demand and emergence of high performance field installable plugs, industry standards such as TIA-862-A, Building Automation Systems Cabling Standard and ANSI/BICSI-005-2013, Electronic Safety and Security (ESS) System Design and Implementation Best Practices now recognize the direct attach method of termination.

Optical Cable Corporation (OCC) has developed well-defined procedures for testing direct attach configurations using a modified permanent link test setup. OCC's Extended Performance 25 Year Link Limited Warranty is also applicable to direct attach links utilizing OCC products that are certified in a modified permanent link configuration using the appropriate OCC field plug test adapter for the performance category of the link under test.

Direct Attach Test Configuration:

Single connector modified permanent link utilizing an OCC field plug test adapter and a Fluke Networks DSX-5000 tester. See figure 1.

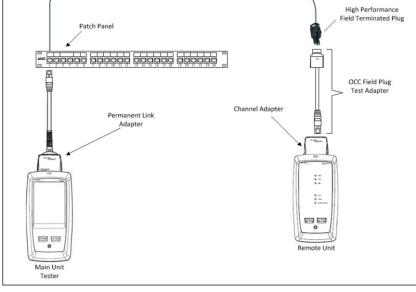
Instructions:

Step 1: Connect permanent link adapter to Fluke DSX-5000 main unit

Step 2: Connect channel adapter to DSX-5000 remote.

Step 3: Connect OCC field plug test adapter (plug end) to channel adapter on the Smart Remote.

Note: For maximum accuracy, It is important to use the appropriate field plug test adapter for the performance category of the link under test [Cat5e: FPTAC5EKS

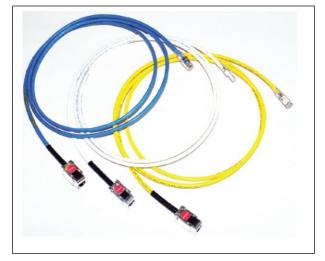


Horizontal Cable

Figure 1: Modified Permanent Link with OCC Field Plug Test Adapter

(yellow), Cat6: FPTAC6KS (blue), Cat6A: FPTAC6AKS (white).] See figure 2.

Step 4: Connect the test equipment to the installed cabling as shown in Figure 1.



Step 5: Configure Fluke DSX-5000 Settings

- Tap the test limit from the HOME SCREEN > EDIT > Test Limit > MORE
- Slide down to Application and tap to see:
- Tap the Mod 1-Conn. Perm. Link for the performance category of the link under test.
- Tap SAVE > USE SELECTED.
- Tap TEST
- Save results

Figure 2: OCC Field Plug Test Adapters