

Referencing and Testing **PINNED** **12 Fiber MM MPO APC Links**

With the Viavi MPOLx

November 2025

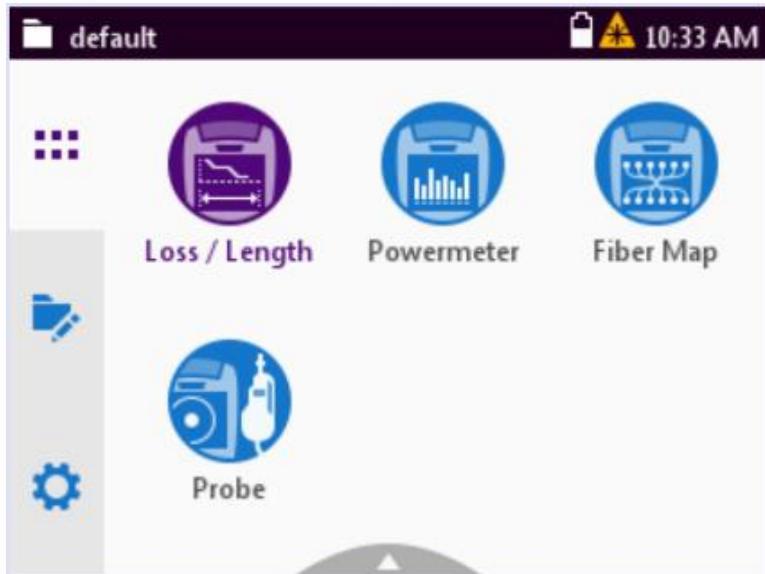
Link Testing of **PINNED** Multimode Links

With Adapter Cord Reference Method
Specific to 12 Fiber **PINNED** MPO **APC** Terminated Links

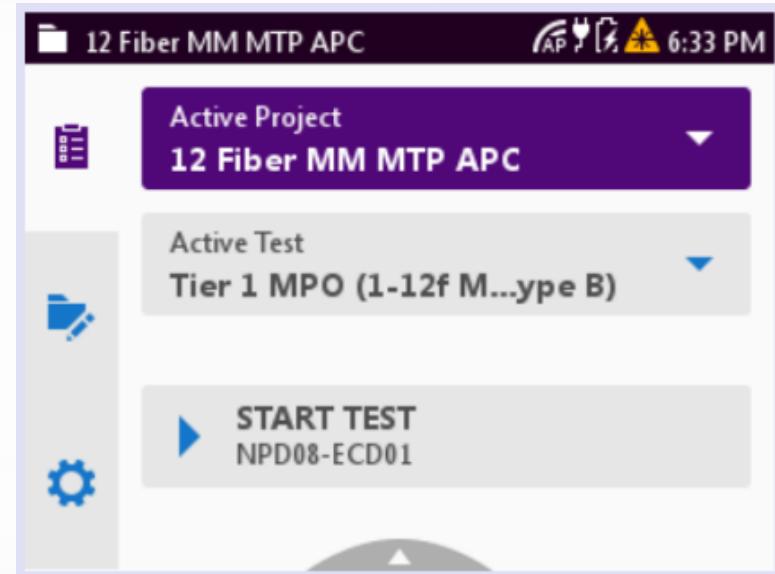


When powered on, the home screen layout is based on the active project type

Default layout is Test Tool Mode

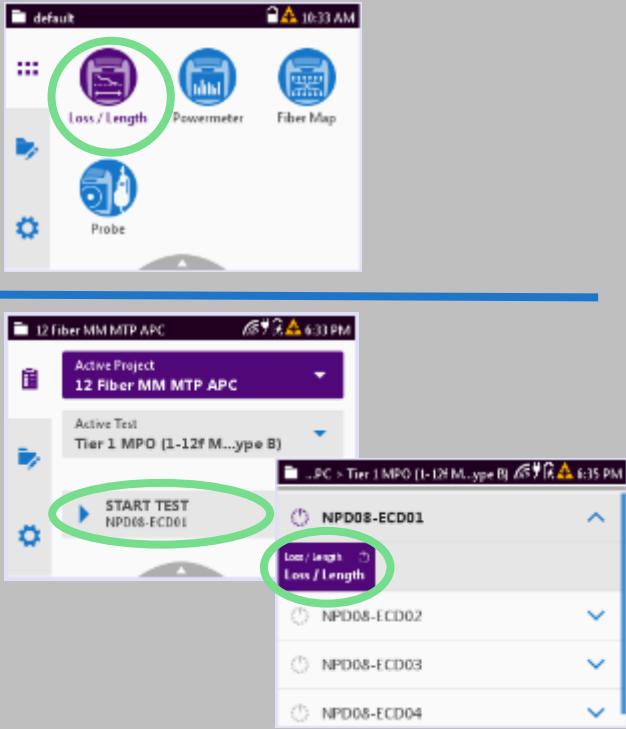


Workflow/Test Process Automation Mode

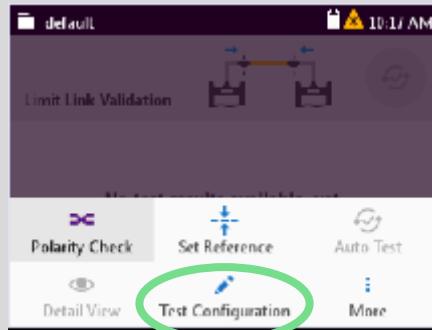


The default Reference Wizard (guide) does not pertain to this test configuration and must be turned off in Test Configuration

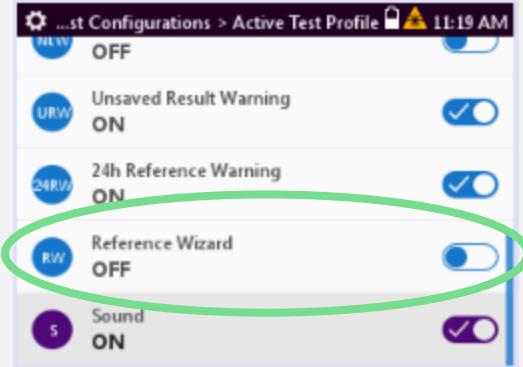
- Click on Loss / Length icon or START TEST



- Click on the Menu button

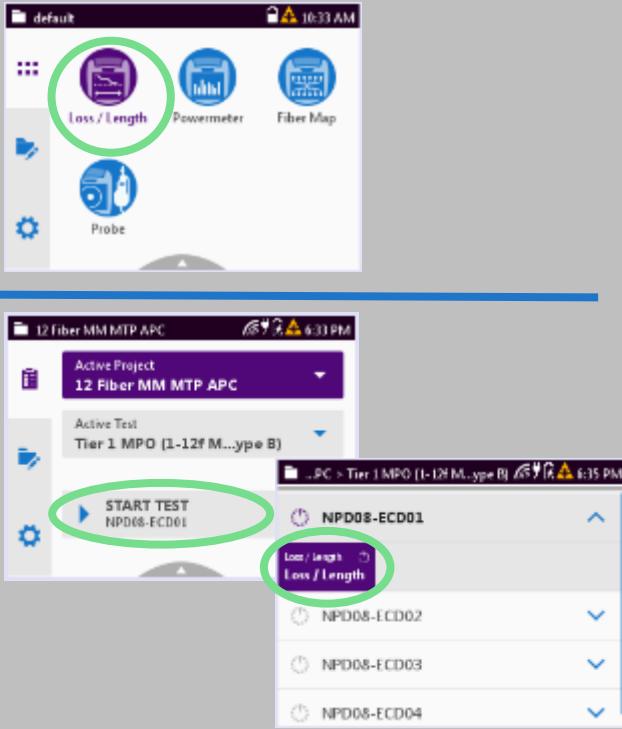


- Create a new test configuration or go to the Active Test Profile and scroll down to turn Reference Wizard OFF

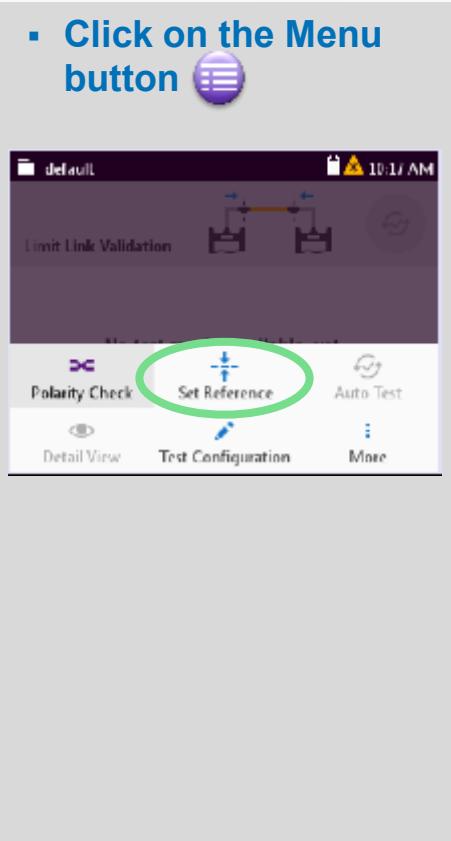


Go to Set Reference to begin the referencing process

- Click on Loss / Length icon or START TEST



- Click on the Menu button



- FOLLOW THE STEP BY STEP PROCESS TO PERFORM A ONE JUMPER REFERENCE, REFERENCE VERIFICATION, AND TO BEGIN TESTING

Required Test Cords

One Cord Reference Method

For Testing
12 fiber MM
PINNED
MPO APC
Type B
Links

All test reference cords (TRCs) must be “low attenuation grade” with a mated pair loss of 0.35dB or less

- TC1 (launch cord): MM PC-unpinned to APC-unpinned, Polarity B
- TC2 (receive cord): MM APC-unpinned to APC-unpinned, Polarity B
- SC1 (substitution/verification cord): MM APC-pinned to APC-pinned, Polarity B

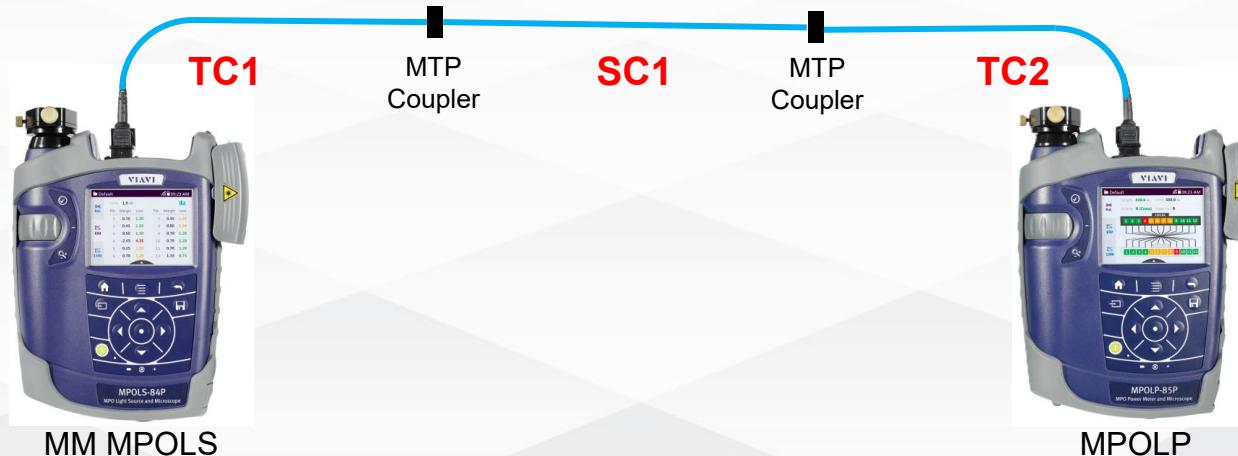
Based on the size of your project, it is extremely important to have backup sets of TRCs on hand.

For reference: An MPO connector is rated for 500 mating cycles, however how the TRCs are cared for can impact that number either way

Test cords required for Link testing?

All test reference cords (TRCs) must be “low attenuation grade” – mated pair loss of 0.35dB or less

- TC1 (launch cord): MM **PC**-unpinned to **APC**-unpinned, Polarity B
- TC2 (receive cord): MM **APC**-unpinned to **APC**-unpinned, Polarity B
- SC1 (substitution/verification cord): MM **APC**-pinned to **APC**-pinned, Polarity B



What needs to be tested?



MM MPOLS-84



Loss measured is of all components in box:

- *2 x MM MPO APC connections*
- *Length of fiber optic cable to be tested*

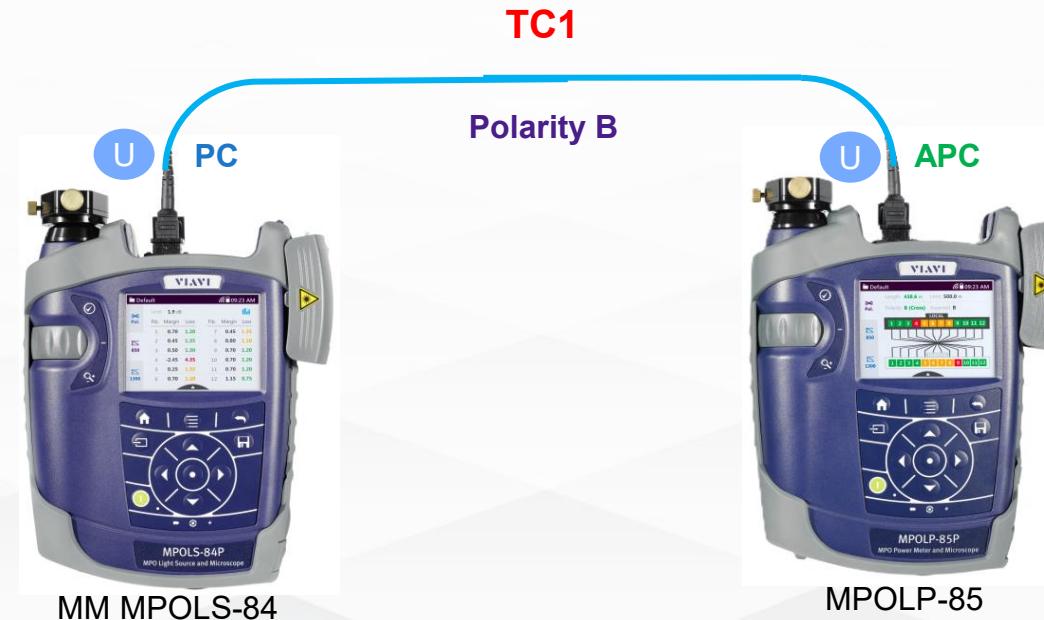


MPOLP-85

- All test cords need to be **Polarity B**
- Link tests need to **include** the loss between the test cords and the link under test

Step 1: Perform a 1-Jumper Reference

- Connect the MPOLS-84 to the MPOLP-85 using TC1 and set the reference



TC1: MM PC-unpinned to APC-unpinned, polarity B

 = Unpinned MTP Connector

Step 2: Reference Verification

It is recommended, if not required, to save the results of this test for confirmation



MM MPOLS-84



1. Disconnect **TC1** from MPOLP
2. Add **TC2** and **SC1**
3. Press the purple circle on the touch screen to perform a Loss (verification) Test
4. Verify the loss $\leq 0.75\text{dB}$
5. Save the result for proof of a valid reference



MPOLP-85

TC1: MM PC-unpinned to APC-unpinned, Polarity B

TC2: MM APC-unpinned to APC-unpinned, Polarity B

SC1: MM APC-pinned to APC-pinned, Polarity B

= Unpinned MTP Connector

= Pinned MTP Connector

You are now ready to begin testing!



Connect to fiber
to be tested



U = Unpinned MTP connector

To import the test data into ReportPRO

- Simply connect the MPOLP to a laptop running ReportPRO with a USB cable
- Select “Test Results” from the drop down menu list
- Select  Import Instrument to import the test data off the MPOLP
- Select  Import StrataSync to import the test data stored in StrataSync

To import the test data into ReportPRO

- Simply connect the MPOLP to a laptop running ReportPRO with a USB cable
- Select “Test Results” from the drop down menu lis

Viavi's Test Process Automation (TPA) makes it simple to configure test equipment and generate close out reports faster



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