

Wirepath SSF™ WP-TEST-FIBER-400 Tester Kit QSG

Your power meter and light source units are used to measure loss in dB of the power coupled into the cable by the light source versus power measured on the receiver end by the power meter. Loss testing is done at wavelengths for the fiber in use, typically 850nm for multimode and optionally at 1300nm, while singlemode is tested at 1310nm and optionally 1550nm. The measured loss can be compared to the estimated loss for the link or “loss budget.”

This testing kit, combined with the included reference cables, allows for both single-ended and double-ended loss testing on fiber optic cables.

For setup, allowable loss, link budget calculations, and more, the Fiber Optic Association (FOA) is a great resource for testing guidelines. FOA power testing instructions are included with your kit and should be reviewed prior to using this equipment. Information on the two tests noted above can be found via the FOA at www.thefoa.org, including fiber optic testing methods and standards.

Package Contents

- Carry Case with Shoulder Strap
- Light Source (OLS)
- Optical Power Meter (OPM)
- LC Connector Coupler x2
- SC Connector Coupler x1
- Power Supply x2
- Single Mode Reference Cables x3 (Yellow)
- Multimode Reference Cables x3 (Aqua)
- FC, ST, and SC port adapters



See the manuals included with your test kit to become familiar with the light source and optical power meter.

Data Capture Software

Your optical power meter has a built-in memory for storing up to 1000 test results that can later be transferred to a PC via USB connection. The software can be found as a zip file download on the product page support tab for the test kit at www.SnapAV.com. Instructions for using the software are included in the download.

This feature can be used to provide test summaries for clients and also as a valuable troubleshooting tool if issues arise later on. You can refer back to the results of any test and compare the new results when troubleshooting.

System Requirements

- Windows 7/8/10+ (not Mac-compatible)
- 1x USB port
- Microsoft Excel required for saving records to a spreadsheet.

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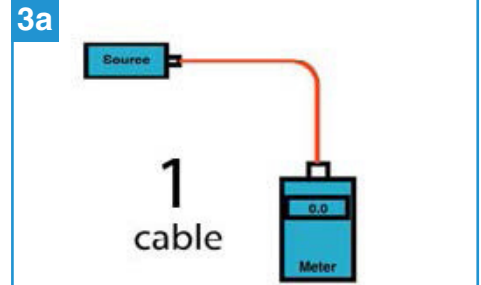
Testing Loss using the WP-TEST-FIBER-400 Tester Kit



Turn on the light source (OLS) and power meter (OPM) and set each device to the same wavelength by pressing the λ button. Typical settings: 850nm for multimode testing; 1310nm for single mode testing.

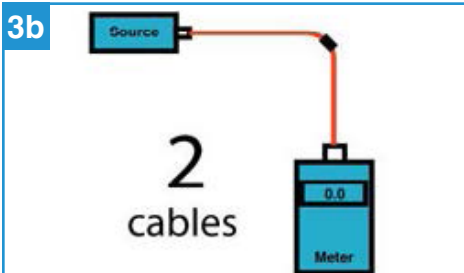


On the OLS, press the CW button until 0 Hz is displayed. *Dashed lines indicate laser is off. Press λ button to activate laser. On the OPM, press the dBm/W button until dBm is displayed.



For single-end SC testing, connect one SC-SC reference cable between the OLS and OPM (aqua for multimode, yellow for single mode).

Be sure to use the correct output on the OLS



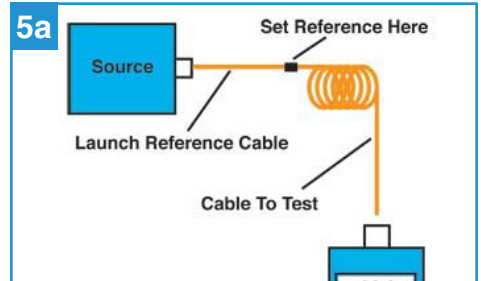
For double-end LC testing, connect two SC-LC reference cables between the OLS and OPM (aqua for multimode, yellow for single mode).

Use one LC-LC adapter (included) between the LC connector ends. Be sure to use the correct output on the OLS



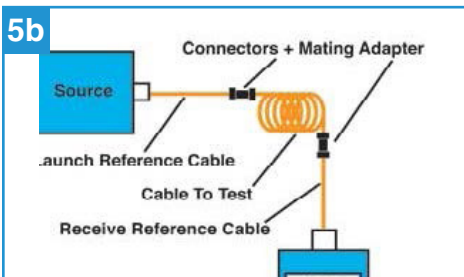
With the OLS and OPM connected, quickly press the **REF** button (OPM) to zero the calibration. The dBm value will move to the top-right corner, replaced by "00.00 dB" in the main LCD area.

This removes the reference cable loss from the equation.



For single-end testing, unplug the reference cable from the OPM and connect it to one end of the test cable using the included SC-SC adapter. Connect the OPM to the opposite end of the cable.

The main OPM LCD area will display the loss in dB.



For double-end testing, disconnect the OLS and OPM and connect one reference cable to each end of the test cable using the LC-LC adapters.

The main OPM LCD area will display the loss in dB.



To save test results in the OPM, press the **SAVE** button to see the reference number, then press **SAVE** again to store the record. 1000 records may be stored.

See the included OPM Manual for more information about managing saved test results.

Important: Always replace the dust caps on all test equipment after use. See the included product manuals for cleaning and troubleshooting information.

All documentation is available online at the product page support tab. Go to www.SnapAV.com.