

525N | Smart Optical Loss Test Set



Job ID: 0045-K706

Customer: _____

Date: 5/19/2021

Definable: _____

LINK LOSS SUMMARY REPORT

Cable ID: 1010254

Cable Information

Cable ID: 1010254

Manufacturer: Lucatel

Connector Type: SC

Length: 254 meters

Definable: _____

Site A: Closet 22

Site B: Closet 22

Operator A: Peter

Operator B: Samanth

Definable: _____

Site Information

Closet 22

Closet 22

254 meters

Measurement Results

1310nm

Loss A-B (dB)

Loss B-A (dB)

Loss Average (dB)

ORL A-B (dB)

1550nm

Loss A-B (dB)

Loss B-A (dB)

Loss Average (dB)

ORL A-B (dB)

PASS/FAIL

Reference Data	1310nm				1550nm				
	Loss A-B (dB)	Loss B-A (dB)	Loss Average (dB)	ORL A-B (dB)	Loss A-B (dB)	Loss B-A (dB)	Loss Average (dB)	ORL A-B (dB)	PASS/FAIL
Fiber ID	10	10	10	10	10	10	10	10	-
1	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
2	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
3	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
4	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
5	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
6	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
7	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
8	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
9	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
10	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
11	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
12	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
13	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
14	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
15	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
16	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
17	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
18	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
19	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
20	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	FAIL
21	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	FAIL
22	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
23	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
24	10.12	10.18	10.15	55.24	10.12	10.18	10.15	55.56	PASS
	9	8	8	8	8	8	8	8	

Test Thresholds

Link Loss @1300nm: 15 dB

Return Loss: 50 dB

Link Loss @1550nm: 12 dB

Information

Serial Number of Tester @ Site A

Serial Number of Tester @ Site B

Firmware Version

APPLICATIONS:

Characterizing the insertion loss and return loss of your fiber has never been so easy! Testing fiber optic cable in the field is a time consuming and complicated process. The 525N simplifies acceptance testing by automating the measurement process, informing the user of PASS/FAIL condition on the fiber under test based on user set thresholds. The 525N automatically assigns a fiber ID saving the test result to internal memory.

The 525N's advanced engineering has simplified the measurement process to 4 simple steps:

1. Set-up: Menus to select type of measurement, wavelength(s), locations, user names, and insertion loss and return loss PASS/FAIL thresholds.
2. Perform reference measurement between units. (Only required once)
3. Press AUTOTEST and the instrument automatically performs bi-directional measurements, informs the user of average loss, margin from threshold, and a PASS/FAIL indicator. The test result is automatically stored to internal memory.
4. Once back in the office the user can download the measurements from the 525N via the RS232 port to the Report Writer. The user can review the test results and print custom fiber or complete cable verification reports.

The 525N is housed in a rugged rubberized protective case that can stand up to the rigors of the outside plant environment. The large backlit screen and sealed membrane panel enable the 525N to be used in the harshest of locations. The 525N is powered by internal rechargeable batteries providing a continuous 8 hours of operation on a full charge.

FEATURES:

- Automated bi-directional testing
- Test End-to-End Loss and Return Loss
- One button AUTOTEST
- Single mode and Multi-mode
- Optical Power Meter
- Optical Return loss meter
- 55dB measurement range
- Stores over 1000 measurements
- Rechargeable batteries
- Rugged case

525N | Smart Optical Loss Test Set

The 525 Report Writer generates professional reports detailing the tests performed on the 525N instrument. The 525 Report Writer generates cable reports, detailing all fibers tested in that cable and fiber reports, a report on a singular fiber. The report is split into four sections Customer Information, Cable Information, Site Information and Measurement Results. The user can customize the report for their own company by placing a graphic in the upper right hand corner. Downloading the test data from the 525N is a simple process.

1. Connect the RS-232 data cable the instrument and the computer.
2. Start the Report Writer application on your computer.
3. Click the download button and the application will ask you which folder you would like to store the data.

SPECIFICATIONS:

	525N-30 850/1300nm Multimode	525N-60 1310/1550nm Singlemode
Power Meter		
Detector Type	InGaAs	InGaAs
Display Range	+10dBm to -70dBm	+10dBm to -70dBm
Calibrated Wavelengths	850, 980, 1300, 1310, 1550, 1480,1625	850, 980, 1300, 1310, 1550, 1480,1625
Absolute Accuracy	±0.25dB	±0.25dB
Resolution	0.01dB	0.01dB
Measurement Units	dBm, dB	dBm, dB
Connector Type	UCI-UPC flat polish adapter 62.5/125 MM	UCI-UPC flat polish adapter 9/125 SM
Source		
Center Wavelength	850nm ±30nm 1300nm ±30nm	1310nm ±30nm 1550nm ±30nm
Spectral Width	<170 <170	<5 <5
Output Power	> -21 dBm > -21 dBm	> -10 dBm > -10 dBm
Output Stability	±0.10 dB/8 hours ±0.10 dB/8 hours	±0.15 dB/8 hours ±0.15 dB/8 hours
Connector Type	UCI-UPC flat polish adapter 62.5/125 MM	UCI-UPC flat polish adapter 9/125 SM
Insertion Loss		
Test Port Measurement Range	25 dB	60 dB
Calibrated Wavelengths	850, 1300nm	1310, 1550nm
Return Loss		
Measurement Range	n/a	10 to 45dB
Accuracy	n/a	0.5dB
General Descriptions		
Display Type	Graphics Liquid Crystal Display w/Backlight	Graphics Liquid Crystal Display w/Backlight
Fiber Type	Multimode 62.5/125 um	Singlemode 9/125 um
Standard Connector Type	FC, SC	FC, SC
Laser Classification	Class 1 CFR 1040	Class 1 CFR 1040
Operating Temperature	0°C to +50°C	0°C to +50°C
Storage Temperature	-20°C to +60°C	-20°C to +60°C
Relative Humidity	0 to 95% RH non-condensing	0 to 95% RH non-condensing
Size	19.3 X 10.9 X 5.8 cm (7.6 X 4.3 X 2.3in)	19.3 X 10.9 X 5.8 cm (7.6 X 4.3 X 2.3in)
Weight	1.0kg (2.2lbs)	1.0kg (2.2lbs)
Power	Internal rechargeable NiMH	Internal rechargeable NiMH
Battery Life	> 8 hours	> 8 hours

ORDERING INFORMATION

525N-30	850/1300nm Multi-mode Optical Loss Test Set - The 525N comes with hard carrying case, instruction manual, warranty registration card, RS-232 data transfer cable, Report Writer software, mandrel, AC adapter/charger, and All-in one connector-cleaning tool.	Accessories 1020 1030 1062 APC-108 ASC-108 ATS-108 2K3K-101-01 6K6K-101-01 2K2K-101-01 2K2K-106-01 6K6K-106-01 3K3K-106-01 945
525N-60	1310/1550nm Single mode Optical Loss Test Set - The 525N comes with hard carrying case, instruction manual, warranty registration card, RS-232 data transfer cable, Report Writer software, mandrel, AC adapter/charger, and All-in one connector-cleaning tool.	

NTT/FC-PC Snap-On Connector Adapter
 AT&T/ST-PC Snap-On Connector Adapter
 NTT/SC-PC Snap-On Connector Adapter
 NTT/FC-PC Universal Connector Adapter
 NTT/SC-PC Universal Connector Adapter
 AT&T/ST-PC Universal Connector Adapter
 FC/PC to FC/PC Single mode (9/125) patch cord
 SC/PC to SC/PC Single mode (9/125) patch cord
 ST/PC to ST/PC Single mode (9/125) patch cord
 FC/PC to FC/PC Multi-mode (62.5/125) patch cord
 SC/PC to SC/PC Multi-mode (62.5/125) patch cord
 ST/PC to ST/PC Multi-mode (62.5/125) patch cord
 All in One Cleaning Tool

