

**FIBER OPTIC CABLE
TESTING - LEVEL 1**

Project Name: _____ **Test Date:** _____

FOC TYPE: _____

This procedure outlines Level 1 test to be performed on Fiber Optic Cable. Perform the following tests: at each splice location with the fusion splicing unit at the time the splice is made.

Fiber Optic Cable under test runs from:

ITS Junction Box **OR ITS Cabinet**
Route: _____ **MM**____. ____ **NB/SB/EB/WB/Median**
Nearest Side Street Name: _____

TO

ITS Junction Box **OR ITS Cabinet**
DMS # _____ **Route:** _____ **MM**____. ____ **NB/SB/EB/WB/Median**
Nearest Side Street Name: _____

Total Length of FOC under test (in feet): _____

Fusion Splicing Unit: _____
(Manufacturer/Model No.)

Cabinet Location/No.: _____

Fiber Optic Cable Manufacturer: _____

Fiber Optic Cable Model No.: _____

Fiber Optic Cable Mode/ Core: _____

Fiber Manufacturer: _____

Fiber Type: _____

1: SPLICES

No.	Task	Required Value	Actual Value	Pass	Fail	Comments
I.	Provide certification from the equipment manufacturer that the splice machine was calibrated within 3 months of its use on the contract. Recalibrate the splice machine at 6 months interval					
II.	Certify that splice machine will be recalibrated at every 6 months interval until the completion of successful testing					

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III.	Obtain copy of each splice result	2 paper copies and electronic file generated by fusion splice unit				
No.	Task	Required Value	Actual Value	Pass	Fail	Comments
IV.	Verify that each fiber is listed on the report with splice loss for each splice location	X	X			
V.	Verify that maximum splice loss for each splice does not exceed required value	0.05 dB @ 1310nm				
VI.	Confirm that fiber assignment for each fiber is in compliance with approved fiber optic installation plan	X	X			

2: OTHER REQUIREMENTS

No.	Task	Required Values	Actual Value	Pass	Fail	Comments
I.	Verify cable identification tags provide correct information and are secured with nylon ties.	X	X			
II.	For cable terminating at a device cabinet, verify that each strand is labeled using machine-printed, laminated, self-adhesive labels.	X	X			
III.	Confirm amount of cable slack at each splice location	Minimum Slack- Junction Box- 30' Hub- 10' Cabinet 3'				
IV.	Ensure that cable slack is stored in compliance with minimum bending radius requirement for unloaded application	10 times the cable diameter				
V.	Verify cable grounding and bonding	X	X			
VI.	Ensure that all required components including jumpers, pigtails, breakout kits, connectors, patch panels, splice enclosures, and attenuators are properly secured in accordance with industry standards.	X	X			

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LEVEL 1 TEST RESULTS:

PASS

FAIL

Correction Work Items:

1. _____
2. _____
3. _____
4. _____
5. _____

We agree that Level 1 testing of the Fiber Optic Cable has been performed and that the information above accurately represent the results of the test.

Contractor Name: _____

Contractor Representative Name: _____

Signature and Date: _____

ITS Inspector: _____

Signature and Date: _____

Corrected Work Items:

ITS Inspector Signatures & Date

1. _____
2. _____
3. _____
4. _____
5. _____

- _____
- _____
- _____
- _____
- _____