

General Information

File name:	Fiber X Axis FULL FIBER IOLM20.iolm	Customer:	
Test date:	7/27/2026	Company:	Earthscope Consortium
Test time:	4:29:46 PM		
Job ID:			
Comments:			

Locations

	Location A	Location B
Operator	Gizem Karslioglu	
Model	FTBx-735D-SM1-EA	
Serial number	1888186	
Calibration date	2/26/2025 (UTC)	

Identifiers

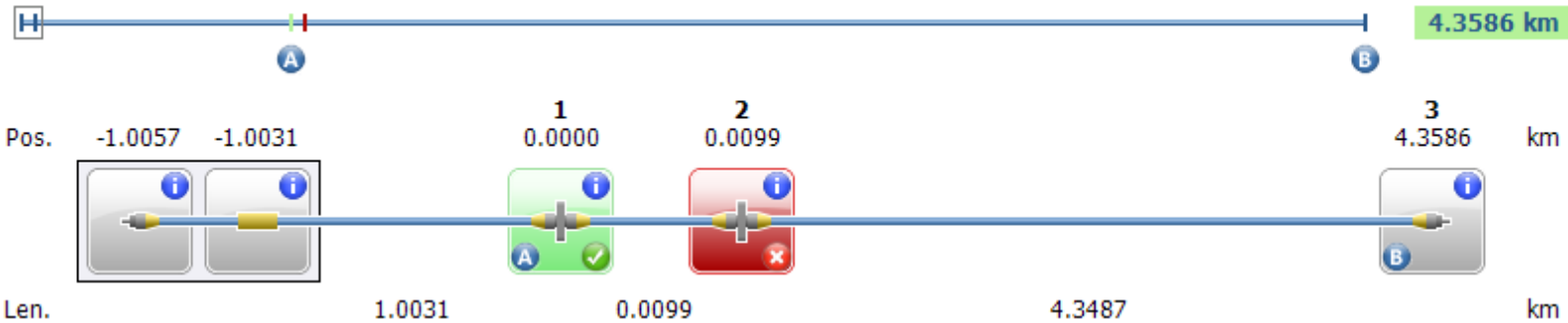
Cable ID	Fiber ID
LIGO Hanford Full Fiber	Fiber X Axis FULL FIBER IOLM20

iOLM Results

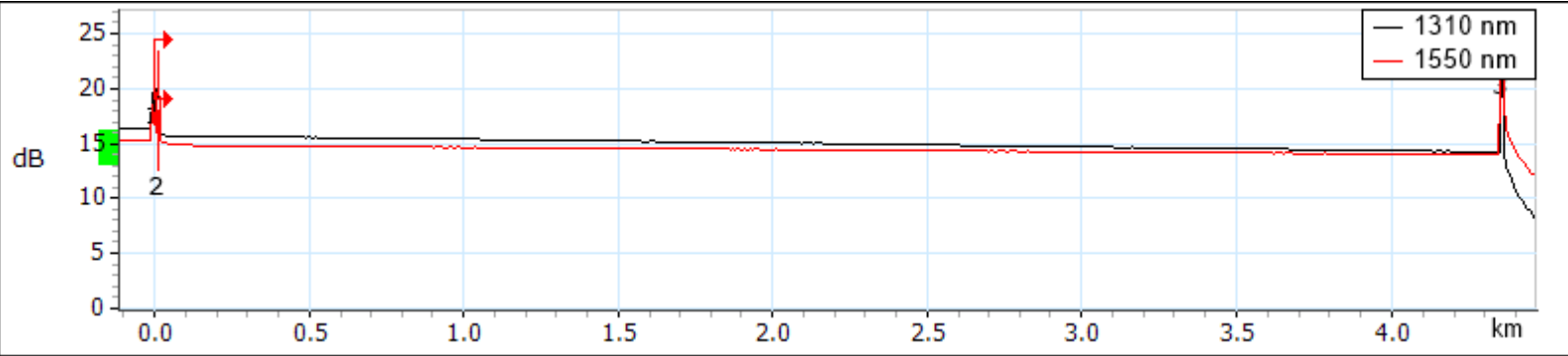
Link length: 4.3586 km
Acquisition status: Completed

Wavelength (nm)	Link Loss (dB)	Link ORL (dB)
1310	2.060	26.29
1550	1.216	26.97

Link View



OTDR Graph Pulse: 10 ns



Element Table

Type	No.	Pos./Len. (km)	Loss (dB)		Refl. (dB)		Att. (dB/km)		Cumul. Loss (dB)	
			1310 nm	1550 nm	1310 nm	1550 nm	1310 nm	1550 nm	1310 nm	1550 nm
Group		-1.0057	0.197	0.205	---	---			---	---
+ Connector		-1.0057	0.060	---	---	---			---	---
		• The element loss cannot be measured at all wavelengths.								
+ Splice		-1.0031	0.138	---	---	---			---	---
		• A short patchcord, which is considered to be a part of the launch fiber, is connected between the test unit and the launch fiber. • The element loss cannot be measured at all wavelengths.								
Section		1.0031	0.323	0.199			0.322	0.199	---	---
Connector	A	1	0.0000	-0.014	-0.112	-42.5	-43.6		-0.014	-0.112
		• The reflectance is higher than expected and could merge following events on fiber under test. • The connector or bulkhead is damaged, dirty or not well connected. Inspect and clean as needed.								
Section		0.0099	---	---			---	---	-0.014	-0.112
Connector		2	0.0099	0.578	0.449	>-27.0	>-27.7		0.565	0.337
		• The connector or bulkhead is damaged, dirty or not well connected. Inspect and clean as needed. • Element reflectance is greater than indicated value.								
Section		4.3487	1.495	0.879			0.344	0.202	2.060	1.216
Connector	B	3	4.3586	---	---	>-22.2	>-24.1		---	---
		• To measure end-to-end loss and ORL including the last element, a receive fiber is required.								

iOLM Pass/Fail Thresholds

	Wavelength (nm)	Fiber Section		Link Loss (dB)		Max. ORL (dB)	Link Length (km)	
		Att. (dB/km)	Len. (km)	Min.	Max.		Min.	Max.
Custom Pass/Fail Thresholds	1310	---	0.0000	0.000	20.000	15.00	0.0000	80.000
	1550	---		0.000	20.000			

iOLM Advanced Pass/Fail Thresholds

	Wavelength (nm)	Average Splice Loss (dB)	Front-End Loss	
			Max. Loss (dB)	Length (km)
Custom Pass/Fail Thresholds	1310	---	---	---
	1550	---	---	

Custom Pass/Fail Thresholds on Elements

	Max. Loss (dB)		Max. Reflectance (dB)	
	1310 nm	1550 nm	1310 nm	1550 nm
Splice	0.300	0.300	---	---
Connector	0.750	0.750	-40.0	-40.0

iOLM Parameters and Settings

Test configuration:	DefaultSetup	IOR (1550 nm):	1.468325
Fiber core size:	9 μm	Backscatter (1550 nm):	-81.87 dB
Launch fiber:	1.0057 km		
Receive fiber:	0.0000 km		