

# MEGLADON<sup>®</sup>

## MANUFACTURING GROUP, LTD

A TyRex Technology Family Company



## HLC<sup>®</sup> SCRATCHGUARD<sup>®</sup> Test Reference Cables

### *The Megladon Difference*

**Test Reference Cables** manufactured by Megladon are the highest-performing fiber optic cables available and are specifically designed to be the ideal cord for testing fiber optic connectors.

Our team carefully selects all of the components, from precision-drilled ferrules to controlled core glass, to ensure the best possible performance from the assembly. We apply our patented HLC termination process to every connector, creating the best possible optical performance (IL & ORL) and unsurpassed endface durability. The extended durability of the HLC connectors ensures better test data over extended use and reduced expense in product testing.

**For more information on Megladon's HLC process and products, please visit [megladonmfg.com](http://megladonmfg.com).**

### KEY BENEFITS

- ✓ Exclusive HLC Termination Process
- ✓ SCRATCHGUARD Durable Mating Surface
- ✓ Available in all major connector & fiber types
- ✓ Exceptional Optical Performance
- ✓ High-Precision Materials
- ✓ Custom built for test application

### APPLICATIONS

- ▶ Fiber Optic Performance Testing
- ▶ Manufacturing Lines
- ▶ Fiber Loss Test Sets
- ▶ Optical Return Loss Meters
- ▶ Lab Instrumentation



# HLC® SCRATCHGUARD® Test Reference Cables



Test Data			
Serial	914710	Root:	Green
Root:	Blue	0.1310	-0.06 dB
0.1320	-0.05 dB	0.1350	-0.08 dB
0.1360	-0.04 dB	0.1370	-0.08 dB
0.1380	-0.02 dB	0.1390	-0.08 dB
0.1400	-0.02 dB	0.1410	-0.08 dB
Apex	12.6 um	Apex	18.5 um
Fiber Height	-11 nm	Fiber Height	-4 nm

Test Data

Fiber Inspection

Inspection Date

11/01/2018 10:40 PM

Company Name

MEGLADON

Location

Operator

ALL

Fiber Information

Fiber Name

914710

Fiber Type

Single

Connector ID

SM Test coupon

Fiber ID

Comments

Inspection Summary

Fiber 1

PASS

View Detail

SM APC (0.1300-0.14) Bandwidth

Zone	Defects	Scratches
Zone A (0 to 20)	PASS	PASS
Zone B (20 to 120)	PASS	PASS
Zone C (120 to 140)	PASS	PASS
Zone D (140 to 200)	PASS	PASS

Fiber 2

PASS

SM APC (0.1300-0.14) Bandwidth

Zone	Defects	Scratches
Zone A (0 to 20)	PASS	PASS
Zone B (20 to 120)	PASS	PASS
Zone C (120 to 140)	PASS	PASS
Zone D (140 to 200)	PASS	PASS

## PERFORMANCE CHARACTERISTICS

Megladon HLC SCRATCHGUARD Singlemode (SM) Test Reference Cables			
<b>Wavelength 1310 &amp; 1550</b>			
<b>UPC</b>	<b>Min</b>	<b>Max</b>	<b>Units</b>
Initial Insertion Loss (UPC)		-0.10	dB
Initial Return Loss (UPC)		-60	dB
<b>APC</b>	<b>Min</b>	<b>Max</b>	<b>Units</b>
Initial Insertion Loss		-0.10	dB
Initial Return Loss		-75	dB

Megladon HLC SCRATCHGUARD Multimode (MM) Test Reference Cables			
<b>Wavelength 850 &amp; 1300</b>			
<b>UPC</b>	<b>Min</b>	<b>Max</b>	<b>Units</b>
Initial Insertion Loss (UPC)		-0.07	dB
Initial Return Loss (UPC)		-45	dB

## ENVIRONMENTAL CHARACTERISTICS

Megladon HLC SCRATCHGUARD Test Reference Cables			
	<b>Min</b>	<b>Max</b>	<b>Units</b>
Radius of Curvature (UPC)	10	20	mm
Radius of Curvature (APC)	7	12	mm
Apex Offset	0	25	um
Fiber Height	-50	+25	nm
Key Error (APC)	-0.2	0.2	degrees
Angle (APC)	7.8	8.2	degrees

## STANDARD CONNECTOR SPECS

Megladon HLC SCRATCHGUARD Test Reference Cables	
Mating Durability	1000+ mates
Drill Hole	125um +0.5/-0um
Concentricity	0.3um drill hole to ferrule

**MEGLADON®**  
MANUFACTURING GROUP, LTD

**Your Fiber Optic Solutions Partner • Reliable - Rugged - Repeatable**

12317 Technology Blvd., Ste. 100 • Austin, Texas • (512) 491-0006 • megladonmfg.com