

MEGLADON[®]

MANUFACTURING GROUP, LTD

A TyRex Technology Family Company



HLC[®] SCRATCHGUARD[®] 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.

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



MEGLADON MANUFACTURING GROUP, LTD.
CERTIFIED TO ISO 9001:2008
CERTIFICATE NO. 10982596

HLC[®] SCRATCHGUARD[®] Test Reference Cables



Test Data			
Serial	854720	Root:	Green
W. 1310	-0.05 dB	W. 1310	-0.06 dB
W. 1550	-0.04 dB	W. 1550	-0.06 dB
CR. 1310	-0.72 dB	CR. 1310	-75.84 dB
CR. 1550	-0.72 dB	CR. 1550	-75.84 dB
Apex	15.24 um	Radius	3.11 mm
Apex	12.4 um	Apex	18.5 um
Fiber Height	-11 um	Fiber Height	-4 um

Fiber Inspection			
Inspection Date	10/10/2018 08:46 PM		
Company Name	MEGLADON		
Location			
Operator	AD		
Fiber Information			
Fiber Name	814720		
Fiber Type	SM78		
Connector ID	SM Test connector		
Fiber ID			
Comments			
Inspection Summary			
	Fiber 1	SM APC (SM-42300-9-10) Benchtop	
	PASS		
		Zone 4 (0 to 20)	Pass
		Zone 5 (20 to 120)	Pass
		Zone 6 (120 to 140)	Pass
		Zone 7 (140 to 200)	Pass
	Fiber 2	SM APC (SM-42300-9-10) Benchtop	
	PASS		
		Zone 4 (0 to 20)	Pass
		Zone 5 (20 to 120)	Pass
		Zone 6 (120 to 140)	Pass
		Zone 7 (140 to 200)	Pass

PERFORMANCE CHARACTERISTICS

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

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

ENVIRONMENTAL CHARACTERISTICS

Megladon HLC SCRATCHGUARD Test Reference Cables			
	Min	Max	Units
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

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Your Fiber Optic Solutions Partner • Reliable - Rugged - Repeatable

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