

# 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



MEGLADON MANUFACTURING GROUP, LTD.  
CERTIFIED TO ISO 9001:2015  
CERTIFICATE NO. 10982586

# 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-42300-0-10) Benchtop	
	<b>PASS</b>		
		Zone 4 (0 to 20)	Pass
		Zone 5 (20 to 120)	Pass
		Zone 6 (120 to 140)	Pass
		Zone 7 (140 to 200)	Pass
		Zone 8 (200 to 250)	Pass
		Zone 9 (250 to 300)	Pass
		Zone 10 (300 to 350)	Pass
		Zone 11 (350 to 400)	Pass
		Zone 12 (400 to 450)	Pass
		Zone 13 (450 to 500)	Pass
		Zone 14 (500 to 550)	Pass
		Zone 15 (550 to 600)	Pass
		Zone 16 (600 to 650)	Pass
		Zone 17 (650 to 700)	Pass
		Zone 18 (700 to 750)	Pass
		Zone 19 (750 to 800)	Pass
		Zone 20 (800 to 850)	Pass
		Zone 21 (850 to 900)	Pass
		Zone 22 (900 to 950)	Pass
		Zone 23 (950 to 1000)	Pass
		Zone 24 (1000 to 1050)	Pass
		Zone 25 (1050 to 1100)	Pass
		Zone 26 (1100 to 1150)	Pass
		Zone 27 (1150 to 1200)	Pass
		Zone 28 (1200 to 1250)	Pass
		Zone 29 (1250 to 1300)	Pass
		Zone 30 (1300 to 1350)	Pass
		Zone 31 (1350 to 1400)	Pass
		Zone 32 (1400 to 1450)	Pass
		Zone 33 (1450 to 1500)	Pass
		Zone 34 (1500 to 1550)	Pass
		Zone 35 (1550 to 1600)	Pass
		Zone 36 (1600 to 1650)	Pass
		Zone 37 (1650 to 1700)	Pass
		Zone 38 (1700 to 1750)	Pass
		Zone 39 (1750 to 1800)	Pass
		Zone 40 (1800 to 1850)	Pass
		Zone 41 (1850 to 1900)	Pass
		Zone 42 (1900 to 1950)	Pass
		Zone 43 (1950 to 2000)	Pass
		Zone 44 (2000 to 2050)	Pass
		Zone 45 (2050 to 2100)	Pass
		Zone 46 (2100 to 2150)	Pass
		Zone 47 (2150 to 2200)	Pass
		Zone 48 (2200 to 2250)	Pass
		Zone 49 (2250 to 2300)	Pass
		Zone 50 (2300 to 2350)	Pass
		Zone 51 (2350 to 2400)	Pass
		Zone 52 (2400 to 2450)	Pass
		Zone 53 (2450 to 2500)	Pass
		Zone 54 (2500 to 2550)	Pass
		Zone 55 (2550 to 2600)	Pass
		Zone 56 (2600 to 2650)	Pass
		Zone 57 (2650 to 2700)	Pass
		Zone 58 (2700 to 2750)	Pass
		Zone 59 (2750 to 2800)	Pass
		Zone 60 (2800 to 2850)	Pass
		Zone 61 (2850 to 2900)	Pass
		Zone 62 (2900 to 2950)	Pass
		Zone 63 (2950 to 3000)	Pass
		Zone 64 (3000 to 3050)	Pass
		Zone 65 (3050 to 3100)	Pass
		Zone 66 (3100 to 3150)	Pass
		Zone 67 (3150 to 3200)	Pass
		Zone 68 (3200 to 3250)	Pass
		Zone 69 (3250 to 3300)	Pass
		Zone 70 (3300 to 3350)	Pass
		Zone 71 (3350 to 3400)	Pass
		Zone 72 (3400 to 3450)	Pass
		Zone 73 (3450 to 3500)	Pass
		Zone 74 (3500 to 3550)	Pass
		Zone 75 (3550 to 3600)	Pass
		Zone 76 (3600 to 3650)	Pass
		Zone 77 (3650 to 3700)	Pass
		Zone 78 (3700 to 3750)	Pass
		Zone 79 (3750 to 3800)	Pass
		Zone 80 (3800 to 3850)	Pass
		Zone 81 (3850 to 3900)	Pass
		Zone 82 (3900 to 3950)	Pass
		Zone 83 (3950 to 4000)	Pass
		Zone 84 (4000 to 4050)	Pass
		Zone 85 (4050 to 4100)	Pass
		Zone 86 (4100 to 4150)	Pass
		Zone 87 (4150 to 4200)	Pass
		Zone 88 (4200 to 4250)	Pass
		Zone 89 (4250 to 4300)	Pass
		Zone 90 (4300 to 4350)	Pass
		Zone 91 (4350 to 4400)	Pass
		Zone 92 (4400 to 4450)	Pass
		Zone 93 (4450 to 4500)	Pass
		Zone 94 (4500 to 4550)	Pass
		Zone 95 (4550 to 4600)	Pass
		Zone 96 (4600 to 4650)	Pass
		Zone 97 (4650 to 4700)	Pass
		Zone 98 (4700 to 4750)	Pass
		Zone 99 (4750 to 4800)	Pass
		Zone 100 (4800 to 4850)	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**

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