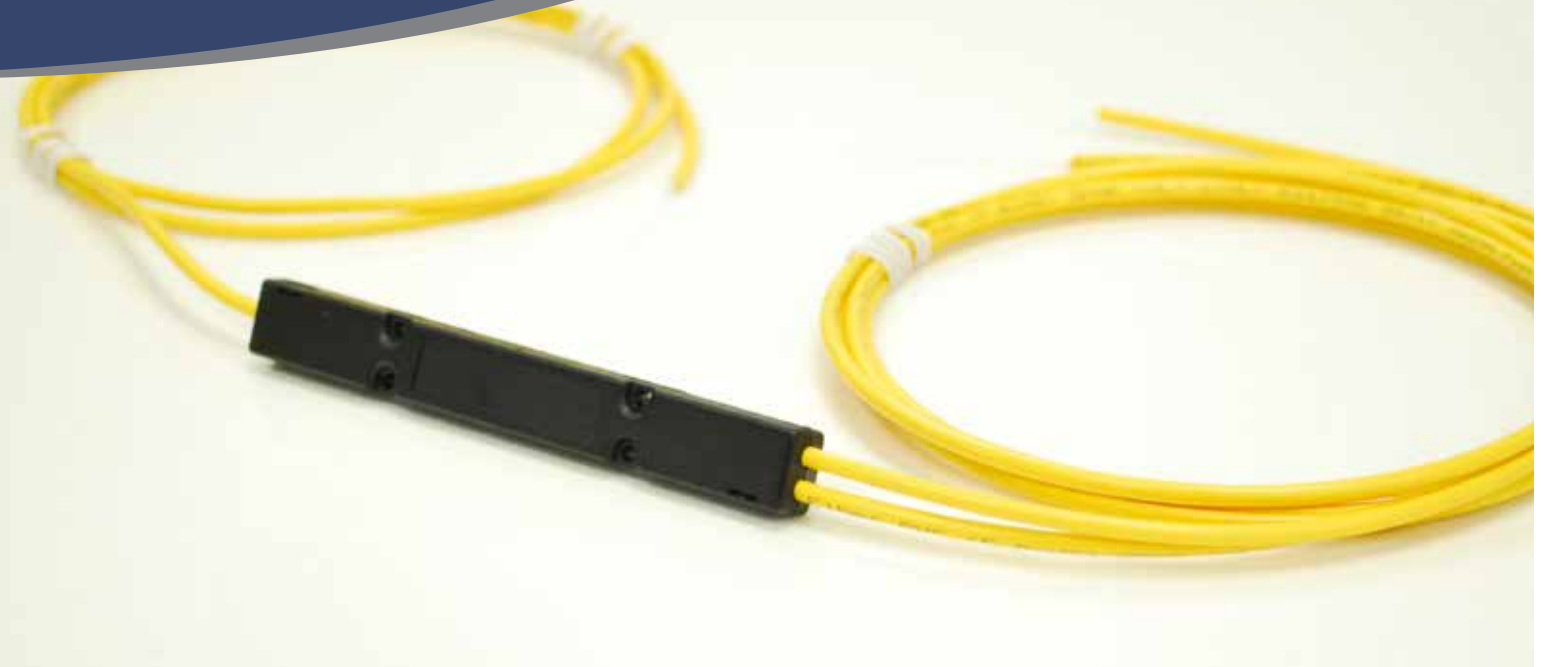


# MEGLADON<sup>®</sup>

MANUFACTURING GROUP, LTD

A TyRex Technology Family Company



## HLC<sup>®</sup> SCRATCHGUARD<sup>®</sup> SM & MM Couplers / Splitters

### *The Megladon Difference*

Megladon **Singlemode (SM) & Multimode (MM) Couplers / Splitters** are custom built to our customers specifications.

We are capable of any coupling ratio from 50:50 to 99:1, build bi-directional assemblies, and utilize our HLC processed connectors for the lowest insertion loss performance. We build metal tube, ABS box, plastic module and LGX type assemblies with any major connector type.

**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
- ✓ Low Insertions Loss
- ✓ Variety of Fiber Types & Coupling Ratios
- ✓ Best-In-Class Performance

### APPLICATIONS

- ▶ Test Equipment
- ▶ Video Networks
- ▶ Local Area Networks
- ▶ Optical Fiber Sensors



MEGLADON MANUFACTURING GROUP, LTD.  
CERTIFIED TO ISO 9001:2015  
CERTIFICATE NO. 1092256

# HLC® SCRATCHGUARD® SM & MM Couplers / Splitters



## PERFORMANCE SPECIFICATIONS

Megladon HLC SCRATCHGUARD SM Couplers / Splitters		
Specification	A Grade	B Grade
Operating Wavelength	1310 & 1550	
Excess Loss (dB)	0.2	0.3
Uniformity (dB)	<0.8	<1.2
Coupling Ratio (%)	1:99 to 50:50	
Polarization Stability (dB)	.15 / .20	
Directivity (dB)	>55	
Operation Temperature (deg. C)	-40 to +70	
Storage Temperature (deg. C)	-50 to +85	
Temperature Coefficient (dB / deg. C)	<0.002 (Max)	
Dimensions (mm)	Bare Fiber: 3.0 (φ) x 54 (L)	
	Loose Tube: 3.5 (φ) x 65 (L)	
	PVC: 95 (L) x 12 (W) x 10 (H)	

Megladon HLC SCRATCHGUARD SM Couplers / Splitters Coupling Ratio / Insertion Loss Table		
Splitting Ratio	A Grade	B Grade
50 : 50	3.6	3.9
40 : 60	4.7 / 2.7	5.0 / 2.9
30 : 70	6.0 / 2.9	6.4 / 2.1
20 : 80	7.9 / 1.2	8.5 / 1.4
10 : 90	11.3 / 0.6	12.7 / 0.8
5 : 95	15.2 / 0.4	24.0 / 0.4
1 : 99	23.5 / 0.3	24.0 / 0.4

Megladon HLC SCRATCHGUARD MM Couplers / Splitters		
Specification	A Grade	B Grade
Operating Wavelength	850 & 1310	
Excess Loss (dB)	0.7	1
Uniformity (dB)	<0.8	<1.0
Coupling Ratio (%)	1:99 to 50:50	
Directivity (dB)	>35	
Operation Temperature (deg. C)	-40 to +70	
Storage Temperature (deg. C)	-50 to +85	
Temperature Coefficient (dB / deg. C)	<0.002 (Max)	
Dimensions (mm)	Bare Fiber: 3.0 (φ) x 54 (L)	
	Loose Tube: 3.5 (φ) x 65 (L)	
	PVC: 95 (L) x 12 (W) x 10 (H)	

Megladon HLC SCRATCHGUARD MM Couplers / Splitters Coupling Ratio / Insertion Loss Table		
Splitting Ratio	A Grade	B Grade
50 : 50	3.9	4.3
40 : 60	4.9 / 3.0	5.4 / 3.5
30 : 70	6.2 / 2.3	6.7 / 2.7
20 : 80	8.0 / 1.6	8.7 / 2.1
10 : 90	11.3 / 1.1	12.2 / 1.6
5 : 95	14.9 / 0.9	16.2 / 1.3
1 : 99	22.1 / 0.7	22.7 / 1.0

**MEGLADON**®  
MANUFACTURING GROUP, LTD

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

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