

# MEGLADON<sup>®</sup>

MANUFACTURING GROUP, LTD

A TyRex Technology Family Company



## HLC<sup>®</sup> SCRATCHGUARD<sup>®</sup> Trunk Cables

### *The Megladon Difference*

The **Fiber Optic Trunk Cables** manufactured by Megladon are designed to support the needs of high-density fiber deployments in a variety of environments. Every trunk cable is built from the highest-quality materials from the top manufacturers in the industry, and all assemblies are factory terminated and tested to the highest industry standards.

Megladon can terminate any industry standard connector, including SC, LC and MPO / MTP<sup>®</sup> varieties. An array of cable constructions are available including indoor, I/O, armored and micro distribution - all utilizing the singlemode and multimode glass types. Also available are custom breakout, pulling eye and labeling schemes to support ease of installation. All terminated assemblies utilize Megladon's patented HLC termination process - providing industry leading performance and durability.

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

### KEY BENEFITS

- ✓ Exclusive HLC Termination Process
- ✓ Reference Grade IL & ORL Performance
- ✓ SCRATCHGUARD Durable Mating Surface
- ✓ SM, Bend Insensitive, MM50 OM3 & OM4 Glass
- ✓ Fiber Counts (6-144) / various connector types
- ✓ Built to specified length
- ✓ Various furcation tube sizes & colors available

### APPLICATIONS

- ▶ Local Area Networks (LAN)
- ▶ Storage Area Networks (SAN)
- ▶ Data Center Backbone
- ▶ Telecom Backbone
- ▶ 10, 40 & 100 GB/s Networks



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

# HLC® SCRATCHGUARD® Trunk Cables

## PERFORMANCE CHARTS

Singlemode (SM) Trunk Cables			
Wavelength 1310 & 1550	Min	Max	Units
Initial Insertion Loss (HLC)		-0.2	dB
Initial Return Loss (HLC)		-58	dB
Initial Insertion Loss (APCHLC)		-0.2	dB
Initial Return Loss (APCHLC)		-70	dB
Connector Repeatability (IL Change)		0.05	dB
Temperature Cycling (IL Change)		0.05	dB
Temperature Cycling (RL Change)		3	dB
Vibration Loss (IL Change)		0.05	dB
Vibration Loss (RL Change)		3	dB
Cable Retention Loss (IL Change)		0.1	dB
Cable Retention Loss (RL Change)		5	dB

Multimode (MM) Trunk Cables			
Wavelength 850 & 1300	Min	Max	Units
Initial Insertion Loss (HLC)		-0.2	dB
Initial Return Loss (HLC)		-45	dB
Connector Repeatability (IL Change)		0.05	dB
Temperature Cycling (IL Change)		0.05	dB
Temperature Cycling (RL Change)		3	dB
Vibration Loss (IL Change)		0.05	dB
Vibration Loss (RL Change)		3	dB
Cable Retention Loss (IL Change)		0.1	dB
Cable Retention Loss (RL Change)		5	dB

## PHYSICAL & ENVIRONMENTAL CHARACTERISTICS

Singlemode (SM) Trunk Cables			
	Min	Max	Units
Storage Temperature	-40	85	C
Humidity	5	95	% Relative
SM Optical Wavelength	1250	1640	nm
Radius of Curvature (HLC)	10	20	mm
Radius of Curvature (APC)	7	12	mm
Apex Offset	0	50	um
Fiber Height	Fn (ROC)	50	nm
Angle (HLC)	-0.2	0.2	degrees
Angle (APCHLC)	7.8	8.2	degrees

Multimode (MM) Trunk Cables			
	Min	Max	Units
Storage Temperature	-40	85	C
Humidity	5	95	% Relative
MM Optical Wavelength	790	1380	nm
Radius of Curvature (HLC)	10	20	mm
Apex Offset	0	50	um
Fiber Height	Fn (ROC)	50	nm
Angle (HLC)	-0.2	0.2	degrees

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

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