

# MEGLADON<sup>®</sup>

MANUFACTURING GROUP, LTD

A TyRex Technology Family Company



IP SERIES - LC

IP SERIES - SC APC

IP SERIES - LC INLINE

## HLC<sup>®</sup> SCRATCHGUARD<sup>®</sup> IP Series Products

### *The Megladon Difference*

**IP Series Connectors & Cable Assemblies** meet IP68 environmental seal ratings and are the ideal choice for industrial, Fiber-to-the-Antenna (FTTA) and harsh environment fiber applications. IP series connectors are available in LC duplex, Simplex SCAPC and MPO configurations to support a wide variety of equipment types, and flange mount adapters are available for integrating into junction boxes in outdoor installations. The bayonet locking system interface is IEC60603-7 compliant, ensuring compatibility with similar lock systems, including ODVA type connectors. The internal connectors are industry standard and provide exceptional performance and full intermatability.

All terminated assemblies utilize Megladon's patented HLC termination process – providing industry-leading performance and durability.

**For full details on Megladon's HLC 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
- ✓ LC Duplex, SCAPC, MPO Connectors
- ✓ Can accommodate 4.8-7mm cable
- ✓ IEC60603-7 Locking Mechanism
- ✓ Inline & Flange Mount Adapters
- ✓ Junction Boxes available

### APPLICATIONS

- ▶ Fiber-to-the-Antenna (FTTA)
- ▶ Fiber-to-the-Home (FTTH)
- ▶ Outside Plant Fiber
- ▶ Harsh Environment
- ▶ Industrial



# HLC® SCRATCHGUARD® IP Series Products



## PERFORMANCE CHARTS

Singlemode (SM) Cables			
Wavelength 1310 & 1550	Min	Max	Units
Initial Insertion Loss (HLC)		-0.15	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) Cables			
Wavelength 850 & 1300	Min	Max	Units
Initial Insertion Loss (HLC)		-0.1	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) 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) 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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