

MEGLADON[®]

MANUFACTURING GROUP, LTD

A TyRex Technology Family Company



IP SERIES - LC

IP SERIES - SC APC

IP SERIES - LC INLINE

HLC[®] SCRATCHGUARD[®] 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.

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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