

# Bend Insensitive 100x HLC<sup>®</sup> SCRATCHGUARD<sup>™</sup> Patch Cords

Megladon has a unique solution for network installers who are often faced with bend loss issues when fiber optic networks are deployed. That solution is the Bend Insensitive 100x HLC SCRATCHGUARD patch cord.

Bend loss can cause ongoing intermittent failures and power budget shortages for network managers. Bend loss issues are difficult to locate and resolve. We have integrated all the benefits of HLC connections with 100x Bend Insensitive glass, resulting in the highest performance, most durable patch cord in the industry.

**The only answer:** If you are looking to decrease network installation time, patch cord maintenance, and troubleshooting, then Megladon's Bend Insensitive 100x HLC SCRATCHGUARD patch cords should be your number one choice.



## Features:

- Lowest bend loss in the marketplace
- Reference cable quality
- Low maintenance matings
- Easy cleaning
- SCRATCHGUARD
- Extended life span
- Will withstand multiple matings
- Compatible with all existing connectors
- Lowest IL/ORL in the marketplace

## Benefits:

- Repeatable network performance
- Network reliability
- Easy to install
- Reduced network down time
- Increased customer satisfaction
- Saves time and money

## Quality Assurance:

- HLC assemblies are 100% tested for optical performance
- Out of box audit using .65 AQL Zero Based Acceptance Plan results in 99.35% Quality Level
- Each assembly is bar code serialized and test data is stored on line
- ISO 9001-2000 registered firm
- GR-326 Compliant



SM HLC assembly is serialized with a bar code label.

**Megladon<sup>®</sup> Manufacturing Group, Ltd.**

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# Bend Insensitive HLC SCRATCHGUARD Patch Cords Specification

## Singlemode Specifications

	<b>Min</b>	<b>Max</b>	<b>Units</b>
<b>Storage Temperature</b>	<b>-40</b>	<b>85</b>	<b>C</b>
<b>Humidity</b>	<b>5</b>	<b>95</b>	<b>% Relative</b>
<b>Bend Radius</b>	<b>7.5</b>		<b>mm</b>
<b>Optical Wavelength Range</b>	<b>1260</b>	<b>1640</b>	<b>nm</b>
<b>Radius of Curvature</b>	<b>10</b>	<b>20</b>	<b>mm</b>
<b>Apex Offset</b>	<b>0</b>	<b>25</b>	<b>um</b>
<b>Fiber Height</b>	<b>Fn(ROC)</b>	<b>50</b>	<b>nm</b>
<b>Angle</b>	<b>-0.2</b>	<b>0.2</b>	<b>degrees</b>

## Wavelength 1310 and 1550

	<b>Min</b>	<b>Max</b>	<b>Units</b>
<b>Initial Insertion Loss</b>		<b>0.2</b>	<b>dB</b>
<b>Initial Return Loss</b>		<b>65</b>	<b>dB</b>
<b>Connector Repeatability (IL Change)</b>		<b>0.05</b>	<b>dB</b>
<b>Temperature Cycling (IL Change)</b>		<b>0.05</b>	<b>dB</b>
<b>Temperature Cycling (RL Change)</b>		<b>3.0</b>	<b>dB</b>
<b>Vibration Loss (IL Change)</b>		<b>0.05</b>	<b>dB</b>
<b>Vibration Loss (RL Change)</b>		<b>3.0</b>	<b>dB</b>
<b>Cable Retention Loss (IL Change)</b>		<b>0.1</b>	<b>dB</b>
<b>Cable Retention Loss (RL Change)</b>		<b>5.0</b>	<b>dB</b>