Overview
The OFS family of High-Power Delivery optical fibers includes the HCL product line. HCL fibers are low-OH, all-silica fibers coated with HCS® fluoroacrylate to improve fiber strength and to reduce static fatigue. ETFE is used as the outer buffer on these step-index, multimode fibers. They have a nominal NA of 0.22 and are available in a variety of core sizes and core/clad ratios.

Typical Applications
Cascaded Laser Power Delivery
High-Power Laser Delivery
  Industrial Cabling
  Laser Surgery
  Laser Welding and Cutting
  Near-IR (up to 2100 nm)
  Laser Power Delivery
# 365-22 Reduced Buffer HCL Optical Fiber

**P/N:** BF05147

## Product Specifications

<table>
<thead>
<tr>
<th>Physical Characteristics</th>
<th>365-22 Reduced Buffer HCL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Diameter</td>
<td>365 ± 10 µm</td>
</tr>
<tr>
<td>Cladding Diameter</td>
<td>400 ± 10 µm</td>
</tr>
<tr>
<td>Hard Coating Diameter</td>
<td>430 +0/-10 µm</td>
</tr>
<tr>
<td>Buffer Diameter</td>
<td>550 ± 30 µm</td>
</tr>
<tr>
<td>Clad/Coating Offset</td>
<td>9 µm</td>
</tr>
<tr>
<td>Crimp &amp; Cleave Compatible</td>
<td>Yes</td>
</tr>
<tr>
<td>Buffer Material</td>
<td>ETFE</td>
</tr>
<tr>
<td>Standard Buffer Color</td>
<td>Blue</td>
</tr>
<tr>
<td>Coating Material</td>
<td>HCS® Fluoroacrylate</td>
</tr>
</tbody>
</table>

## Optical Characteristics

- **Type:** Multimode Step-Index
- **Numerical Aperture:** 0.22 ± 0.02
- **Attenuation @ 850 nm:** ≤ 8 dB/km
- **Water Content:** Low OH

## Mechanical and Environmental

- **Operating Temperature:** -65 to +125 ºC
- **Short-Term Bend Radius:** ≥ 29 mm
- **Long-Term Bend Radius:** ≥ 47 mm
- **Proof Test Level:** ≥ 100 kpsi (0.689 GPa)

## Order by Part Number

**BF05147**

## Product Description Code

365-22 HCL REDUCED BUFFER

## OPTIONS:

- Cabling
- Carbon Coating
- Clad Diameter
- Connectorization
- Core Diameter
- Low Bioburden Packaging and Manufacturing
- Metalization
- Numerical Aperture
- Buffer Colors
- Proof Test

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For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.