Carlisle Interconnect Technologies’ (CarlisleIT) LITEflight® HD (High Density) Fiber Optic Cables build on the industry-leading performance of all CarlisleIT fiber cable products. With a cable designed for compatibility and cutting-edge fiber optic connector designs, LITEflight HD Cables offer a multi-channel fiber cable in the smallest package, compatible with industry-leading MPO connector interfaces and emerging multi-fiber termination connectors. LITEflight HD cables offer system designers maximum interconnect density with cable designed and tested to perform in the harshest environments.

**INTRODUCTION**

**KEY FEATURES**

» FAR 25 Flame Compliance
» Low Smoke & Toxicity
» No preferential bend axis (360°)
» Broad Temperature Range: -65 °C to 150 °C
» Designed for Harsh Aerospace Environments
» Rugged for Severe Installation Requirements
**LITEflight® HD Fiber Optic Cables**

**PERFORMANCE EXAMPLES**

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**Optical Loss vs. Bend Radius (mm)**

Straight line indicates no optical loss on the following bend radius tests.

<table>
<thead>
<tr>
<th>Radius (mm)</th>
<th>Optical Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>0.00</td>
</tr>
<tr>
<td>25</td>
<td>0.00</td>
</tr>
<tr>
<td>12</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Optical Loss vs. Crush Force (N)**

*Other fiber counts available*

<table>
<thead>
<tr>
<th>Crush Force (N)</th>
<th>Optical Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>-0.05</td>
</tr>
<tr>
<td>500</td>
<td>-0.10</td>
</tr>
<tr>
<td>1000</td>
<td>-0.20</td>
</tr>
</tbody>
</table>

**Temperature Rating**

- 125 °C Rated Acrylate
- 150 °C Rated Acrylate
- 260 °C Rated Polyimide

**Fiber Type**

- 1 250um Buffered 62.5/125 Multimode
- 3M3 250um Buffered 50/125 Multimode OM3*
- 3M4 250um Buffered 50/125 Multimode OM4*
- 5B 250um Buffered Singlemode Bend-Insensitive

**Fiber Count**

- 12
- 24
- 48

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**PART NUMBER GUIDE**

Base Part Number: NFO(EP) - X Y Z*

**Temperature Rating**

- 125 °C Rated Acrylate
- 150 °C Rated Acrylate
- 260 °C Rated Polyimide

**Fiber Type**

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See CarlisleIT’s line of Fiber Optic products at: [CarlisleIT.com/products/fiber-optic-products](http://CarlisleIT.com/products/fiber-optic-products)

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