Expand the possibilities.

3M™ Expanded Beam Optical Interconnect
Conventional connectors rely on physical contact to function, and any debris caught between the glass—from dust to skin oil—can interrupt data transmission. By expanding the light beam, 3M’s innovative connector is designed to reduce the need for maintenance, cleaning and human interaction, yet offers exceptional performance.

Leave ordinary connectors
3M™ Expanded Beam Optical Connectors

Designed to perform.
- Expanded beam design optimized for next generation data centers
- Performance supports multi-link deployment
- Low insertion loss and reflectivity in both single mode and multimode

Performance designed in:

<table>
<thead>
<tr>
<th></th>
<th>Single mode (1310 nm)</th>
<th>Multimode (850 nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion loss</td>
<td>&lt;0.70 dB</td>
<td>&lt;0.30 dB</td>
</tr>
<tr>
<td>Return loss</td>
<td>&gt;55 dB</td>
<td>&gt;25 dB</td>
</tr>
</tbody>
</table>

Typical single mode insertion loss at 1310 nm

Typical single mode return loss at 1310 nm

Chart legend: Limit Typical
Lowers your total cost of ownership.

- Expanded beam technology provides reduced sensitivity to dust
- Repeatable mating and re-mating performance
- Simple connector design with low part count

Engineered to scale up.

- Single mode and multimode solutions to meet your connectivity needs
- Configurable and scalable connector design (12 fibers to 144 fibers)
- Supports rack or infrastructure applications

Mating repeatability

![Graph showing change in insertion loss vs. mating cycle at 1310 nm (dB)]

- Chart legend:
  - Fiber 1
  - Fiber 2
  - Fiber 3
  - Fiber 4
  - Fiber 5
  - Fiber 6
  - Fiber 7
  - Fiber 8
  - Fiber 9
  - Fiber 10
  - Fiber 11
  - Fiber 12

![Graph showing return loss vs. mating cycle at 1310 nm (dB)]

- Chart legend:
  - Fiber 1
  - Fiber 2
  - Fiber 3
  - Fiber 4
  - Fiber 5
  - Fiber 6
  - Fiber 7
  - Fiber 8
  - Fiber 9
  - Fiber 10
  - Fiber 11
  - Fiber 12
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