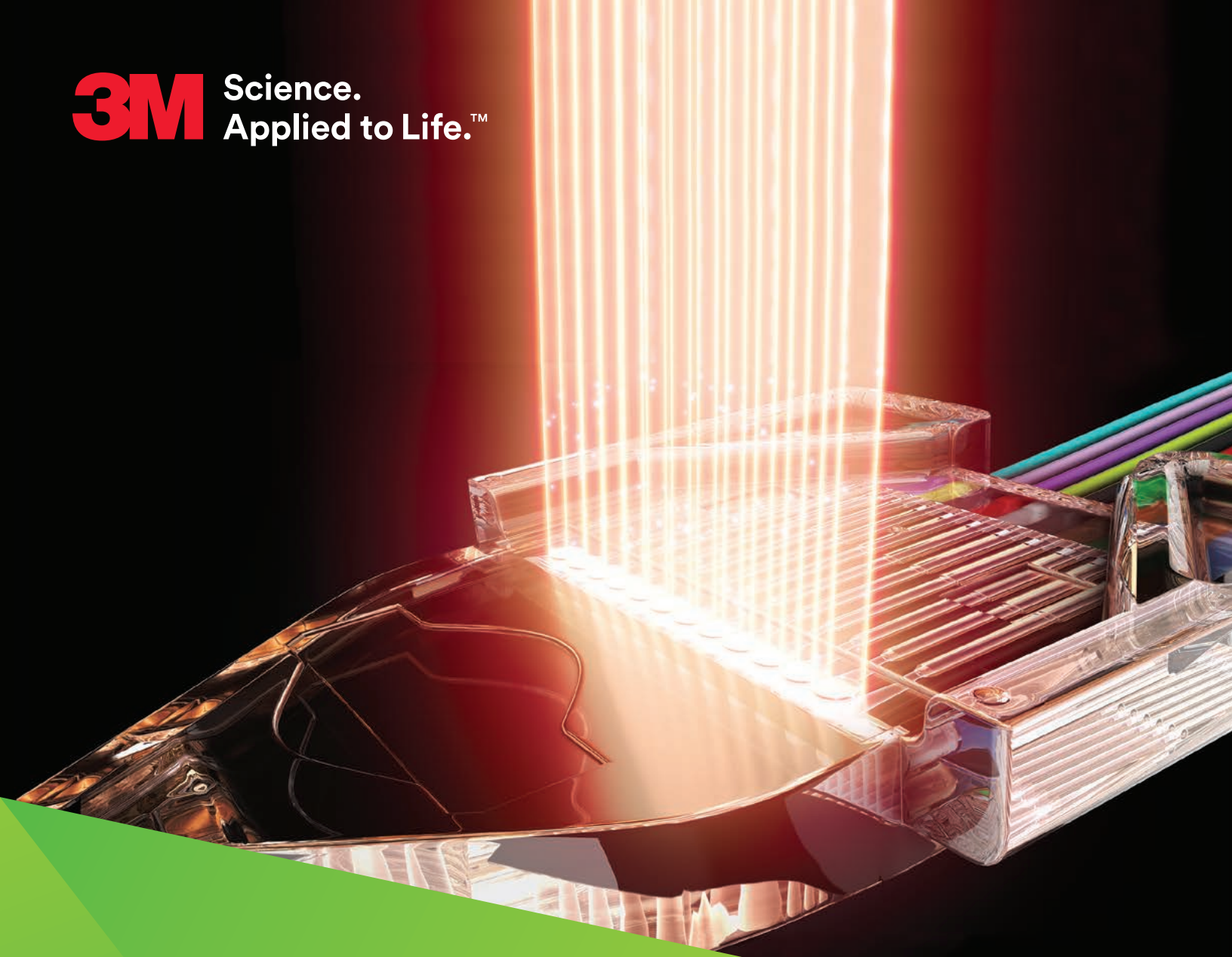




3M Science.
Applied to Life.™



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

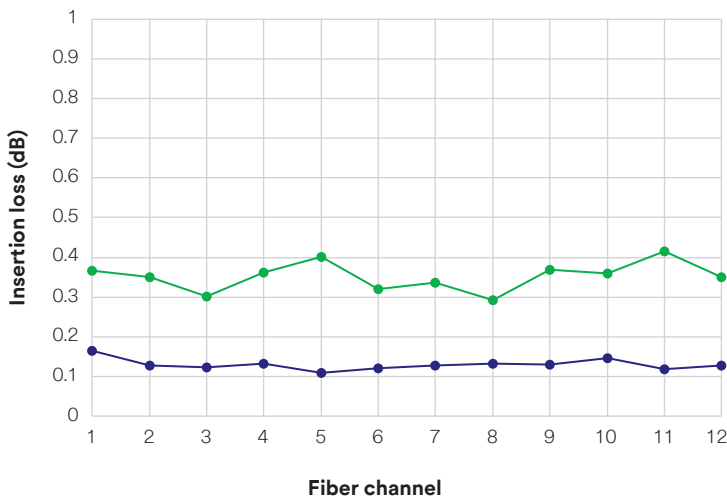
Performance you can rely on.

- ▶ Low attenuation and reflectivity in both single mode and multimode
- ▶ A single design for applications throughout the data center
- ▶ Stable, repeatable performance across multiple re-mating cycles

Performance designed in:

	Single Mode Typical	Multimode Typical
Insertion loss <i>Specification limits: 1310nm – 0.7db</i>	0.35dB	0.15dB
Return loss <i>Specification limits: 1310nm – 55db</i>	60dB	45dB

Typical Insertion Loss by Channel



Typical Return Loss by Channel

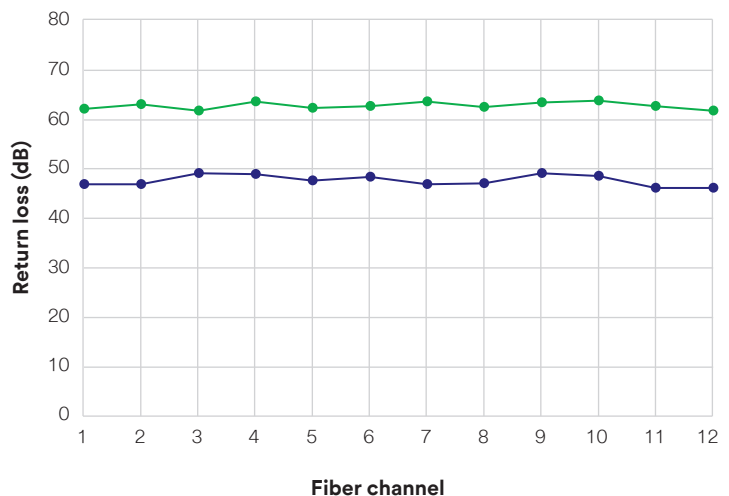


Chart legend: 1310nm 850nm

- ▶ Intergrated alignment features eliminate the need for separate genders and connector types

- ▶ Fiber supported approach allows for dense multiferrule applications

- ▶ Light turn allows for connector designs that mitigate damage or contamination during install

in the dust.

Lowens your total cost of ownership.

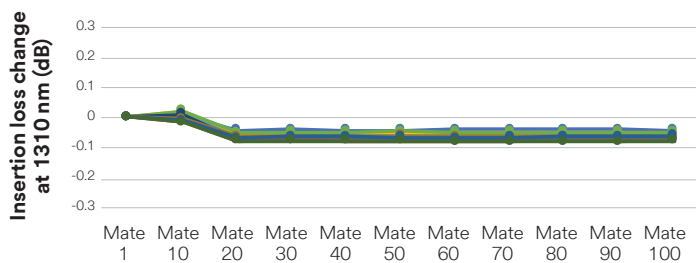
- ▶ Install with confidence with reduced concerns over dust and contamination
- ▶ Rollout technology refresh cycles with ease leveraging stable, repeatable connector performance
- ▶ Reduce supply chain complexity with common and genderless connectors...

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 connectivity throughout the data center

Mating repeatability

Change in insertion loss vs. mating cycle



Return loss vs. mating cycle

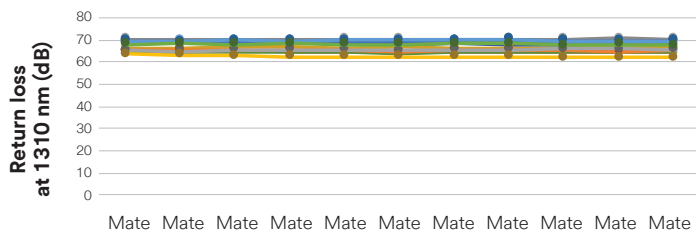


Chart legend:

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



3M™ EBO-12



3M™ EBO-MP12



3M™ EBO-HD144

3M.com/opticalinterconnect

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