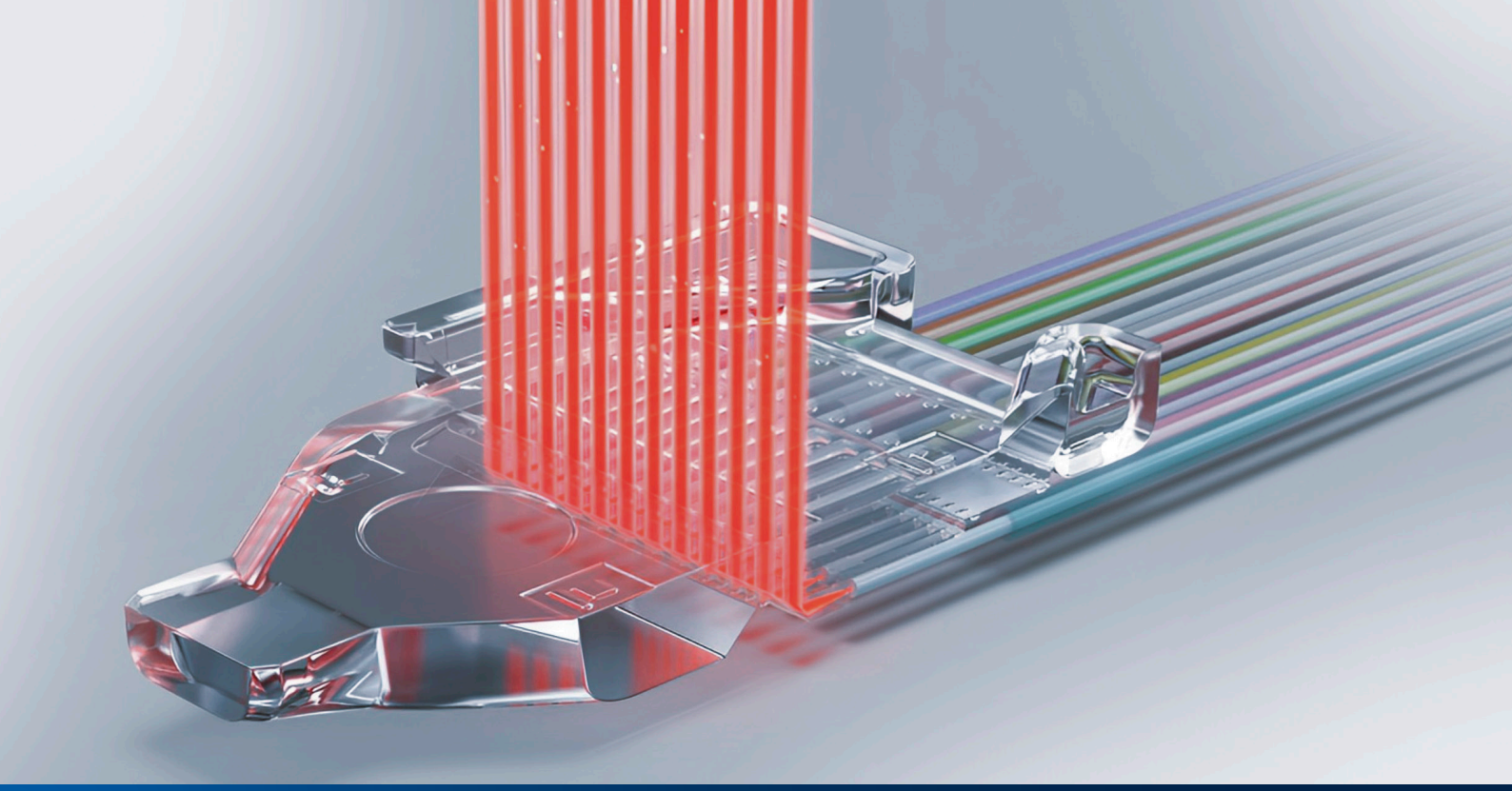


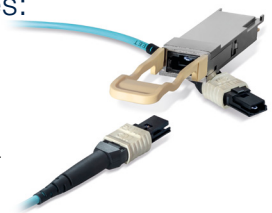
Expanded Beam Optical (EBO) Ecosystem 3M™

Operational Reliability Across the Entire Data Link

Resilient Against Dust and Dirt: Simple Installation, Reduced Maintenance Effort

Contactless integration of all fibers in EBO interfaces:

- from the transceiver
- through its cables
- connection elements
- to the receiving transceiver



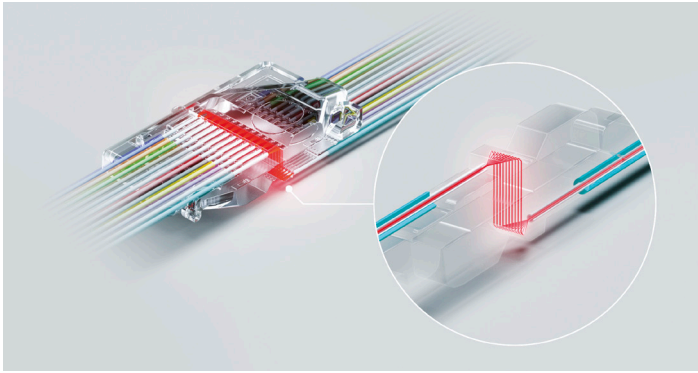
High-Performance Excellence

Performance	Singlemode (1310nm)	Multimode (850nm)
IL max. [dB]	< 0.70	< 0.30
RL min. [dB]	> 55	> 35

- Stable, repeatable performance across multiple re-mating cycles: endures > 10,000 mating cycles
- Hermaphroditic ferrule design for an error-free connection
- Unaffected by dust and resilient to shocks and vibrations

Technology

- No direct contact between contact ends
- Skin or eye contact with the emitted light or signal is virtually impossible
- Developed and patented by 3M™



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Wide Range of Applications

	Plug & Play	Herma-phrodite	Density of ports	Dirt & Dust	Vibration	Harsh environ.	Contami-nants	Non-magnetic	Mating cycles	Sustain-ability
 Defense & Security	✓	✓		✓	✓	✓		✓	✓	
 Medical	✓	✓		✓	✓	✓	✓	✓	✓	
 Aviation	✓	✓		✓	✓	✓				
 Aerospace	✓	✓		✓	✓			✓		
 Avionic	✓	✓		✓	✓			✓		
 Rail	✓	✓		✓	✓	✓				
 Data Center	✓	✓	✓	✓						✓
 Industry	✓	✓		✓	✓	✓			✓	
 FTTx	✓	✓	✓	✓		✓				
 Telecommunication	✓	✓	✓	✓		✓				

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