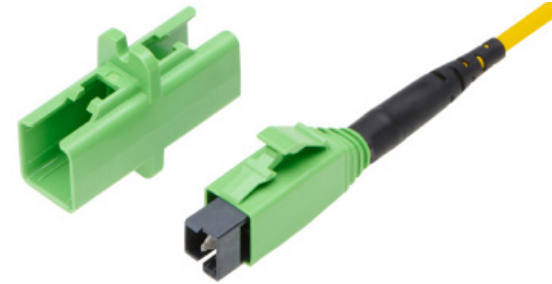
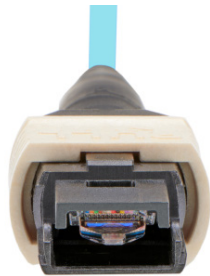


Expanded Beam Optical (EBO) Interconnect Solutions >

Expanded Beam Optical (EBO) Interconnect Solutions deliver high-performance, low-maintenance, reliable and scalable fiber connectivity for tomorrow's data centers.



FEATURES AND ADVANTAGES



Fiber Types	Single-mode, multi-mode
Connector Types	EBO-12, EBO-MP12, EBO-HD144
Fibers per Connector	12 to 144
Connector Insertion Loss	Single-mode: <0.7 dB Multi-mode: <0.3 dB
Connector Return Loss	Single-mode: >55 dB Multi-mode: >25 dB
Operating Temperature	-10 to +60°C

Provides the ability to develop novel connector designs that are not limited by spring forces

Low mating/un-mating forces, even with high fiber counts

Delivers high performance and reliability while providing stability under multiple re-mating cycles

Low insertion and high return loss

Offers flexible, scalable designs

Single- and multi-mode solutions

Delivers a plug-and-play solution for data center turn-up and minimal downtime

Low dust sensitivity for easy deployment

Allows flexibility in connector design to meet specific needs across data centers and beyond

3M™ EBO ferrule

Requires no external guide pins

All critical alignment features are incorporated into the ferrule

Minimizes cleaning and inspection requirements, resulting in faster turn-up of optical systems

Plug-and-play assembly

Reduces supply chain risks for the end user

Open-market business model with multiple sources provides end users flexibility at scale

Permits automated fiber alignment and bonding

Design uses precision-molded fiber grooves, not holes

Provides freedom for optimal alignment, mating retention force and low mating/de-mating force

Ferrules are mated using fiber suspension



Expanded Beam Optical (EBO) Interconnect Solutions >

MARKETS AND APPLICATIONS

Telecommunications and Networking

Infrastructure
Switch-to-switch connections
Intra-rack
Data centers
Hubs
Servers



SPECIFICATIONS

Reference Information

Standards:
GR-1435
Fibers per Ferrule: 12
Fiber Types:
Single-Mode: OS1, OS2
Multi-Mode: OM3, OM4, OM5
Connector Types: EBO-12, EBO-MP12, EBO-HD144
RoHS: Yes
Halogen Free: Yes

Optical

Connector Insertion Loss (IL):
<0.7 dB (single-mode)
<0.3 dB (multi-mode)
Connector Return Loss (RL):
>55 dB (single-mode)
>25 dB (multi-mode)
Operating Wavelength:
1,310nm (single-mode)
850nm (multi-mode)

Physical

Connector Housings:
Single-Mode: Green
Multi-Mode: Aqua
Mating Force (approx.): 0.7N per ferrule
Fiber Diameter: 125µm
Cable Outside Diameter: 3.00mm
Operating Temperatures: -10 to +60°C

www.molex.com/en-us/products/optical-solutions/fiber-optic-connectors-and-adapters