

Ebo Fiber Optic Expansion Connector



Overview

VersaBeam EBO Expanded Beam Fiber Connectors and Cables use lensed technology to deliver high-performance, low-maintenance, reliable and scalable fiber connectivity for tomorrow's data centers. Innovative expanded beam connector options integrate 12, 16 or 144 fibers into a single connector. Explore our expanded beam optical ferrule technology that incorporates and enhances the dust resistance of conventional EBO, while creating vastly broader design capabilities and maximizing time to revenue for hyperscalers. How does it work?

Due to the beam expansion via a. Molex has introduced its family of VersaBeam expanded beam optical (EBO) interconnect solutions. These high-density fiber connectors, optimized for hyperscale data center, cloud and edge computing environments, offer easy installation and reduce inspection and maintenance requirements. Such benefits will provide significant advantages to respond to rapid increase of fiber network development in.



Article Content

Oct 20, 2025

3MTM Expanded Beam Optical Connector Kit, Latch, 12F

The 3MTM Expanded Beam Optical (EBO) Connector Kit, Latch, 12F is a multi-fiber connector system based on expanded beam ferrule technology. Conventional multi-fiber connectors make use of

Feb 25, 2026

Molex VersaBeam EBO Interconnect Solutions: High

Molex introduces VersaBeam EBO Interconnect Solutions, featuring high-density fiber connectors for hyperscale data centers. Leveraging 3M EBO

Jul 29, 2025

Enhancing Fiber Optic Reliability: Expanded Beam Connectors

Traditional physical contact fiber optic connectors have proven to be unreliable in harsh environment applications due to their sensitivity to dirt, dust, mud, water, oil and other contaminants. Expanded

Nov 19, 2025

EBO MPE Connector

EBO MPE Connector EBO MPE Connector for future-proof data centre cabling The best of both worlds: Singlemode and expanded beam connectors Reliable

Jun 10, 2026

3M™ Expanded Beam Optical Ferrule, 16 Fiber

3M™ Expanded Beam Optical Ferrule, 16F allows for faster time to revenue with comparable signal performance vs. physical contact and conventional EBO

Dec 15, 2025

Expanded Beam Optical Connectors | Sumitomo Electric

Introducing dense and precise fiber optic connectivity based on experience of manufacturing both fiber optic cables and connectors. It will solve challenges

Dec 24, 2025

Expanded Beam Optical (EBO) Connectors

Introduction Conventional fiber optic connectors rely on physical contact between fibers for data transmission and are highly sensitive to contamination from dust and other debris, which reduces

Dec 26, 2025

3M™ EBO Latch Connector

In contrast to earlier expanded beam methods, the 3M™ EBO Expanded Beam Latch connector uses a new mirror reflex collimation lens in order to expand the

Jan 16, 2026

Fiber optic connectivity systems: Expanded Beam Optical

Fiber optic connectivity systems: Expanded Beam Optical Q& A session around the EBO principle Our webtalk about the new Expanded Beam Optical (EBO)

Dec 15, 2025

3M Expanded Beam Optical Solutions

Easy-to-order 3M EBO connector kits contain components that specifically support 3M™ Expanded Beam Optical Ferrule technology. Kits are available for single

Feb 03, 2026

SENKO, 3M and Molex Collaborate to Advance High

March 28th, 2025 – In partnership with 3M and Molex, SENKO Advanced Components, Inc., a global leader in fiber optic connectivity solutions has

Mar 03, 2026

Fiber Optic – fast & interference-free transmission

As there is no direct contact between the contact ends, Expanded Beam connections are insensitive to soiling and are easy to clean. No cleaning is required under

May 01, 2026

Introduction to Expanded Beam Connector Technology

Expanded Beam Optical Interconnect technology (EBO) probably is a solution to meet the performance and scalability needs of next-generation data centers and

Sep 26, 2025

Multifiber connectors as key components in the passive fiber optic ...

However, not all fiber-optic connectors exhibit the same sensitivity to dirt. Connectors in which the expansion of the light signal is achieved while avoiding any physical contact with the end surfaces

Aug 08, 2025

New EBO coalition to scale and advance optical connections

Additionally, EBO connectors use internal lenses to expand light beams over a much larger area across the mating interface. For a microscopic dust particle that would hinder a traditional

Sep 15, 2025

EBO MPE Connector

In contrast to earlier expanded beam methods, the EBO MPE connector uses the new EBO ferrule technology in order to expand the light path and overcome the

Dec 26, 2025

Expanded Beam | Fiber Optic - fast & interference-free

ODU's Expanded Beam solutions guarantee the highest data rates and transmission speeds even under harsh conditions. The durable fiber optic solutions with

Jan 23, 2026

Expanded Beam Optical Connectors | Sumitomo Electric

We have developed our own termination equipment of 3M™ Expanded Beam Optical Ferrule utilizing its unique technologies including world leading fusion splicer

Oct 04, 2025

3M™ Expanded Beam Optical Connector EBO Overview

Kevin from the 3M™ Expanded Optical Interconnect lab walks us through the advantages of expanded beam technology. 3M EBO connectors help provide data centers with: - Great IL/RL - Reduced ...

Aug 01, 2025

3M Expanded Beam Optical Solutions

Parallel-aligned 3M EBO ferrules collimate and expand the light beam, so small particles are much less likely to interfere with signal transmission. The light travels across ferrule interface without physical

Sep 15, 2025

Why EBO technology is an alternative to MTP®/MPO

MTP ® /MPO connectors - Parallel optics and contamination as a risk factor Multifiber expanded beam connector systems with EBO technology - a genuine

Apr 19, 2026

OFC 2025: Molex unveils expanded beam optical connectors

Molex has introduced its family of VersaBeam expanded beam optical (EBO) interconnect solutions. These high-density fiber connectors, optimized for hyperscale data center, cloud and edge

Dec 17, 2025

Expanded Beam Connector | Optical Connectivity

Expanded Beam Optical connectors remove these barriers by replacing physical fiber contact, reducing service demands and accelerating large-scale buildouts.

Jul 28, 2025

Fiber optic connectors: 3M™ Expanded Beam Optical

In this field, optical fibers are the transmission medium of the future. Installing fiber-optic cabling is a demanding task in terms of both handling and insensitivity to contaminants. This is why innovative

Jan 03, 2026

3M™ EBO Latch Connector

3M™ Expanded Beam Optical (EBO) Latch Connector for PreCONNECT® solutions The best of both worlds: Singlemode and expanded beam connectors Reliable

Contact Us

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