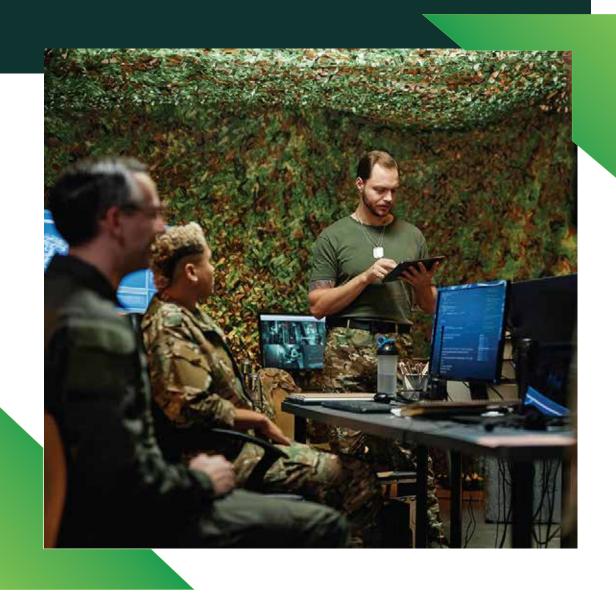
Expanded Beam Xtreme®

The Expanded Beam Xtreme® is a ruggedized, high-performance non-contact fiber optic cable solution engineered for mission-critical applications in the harshest environments.

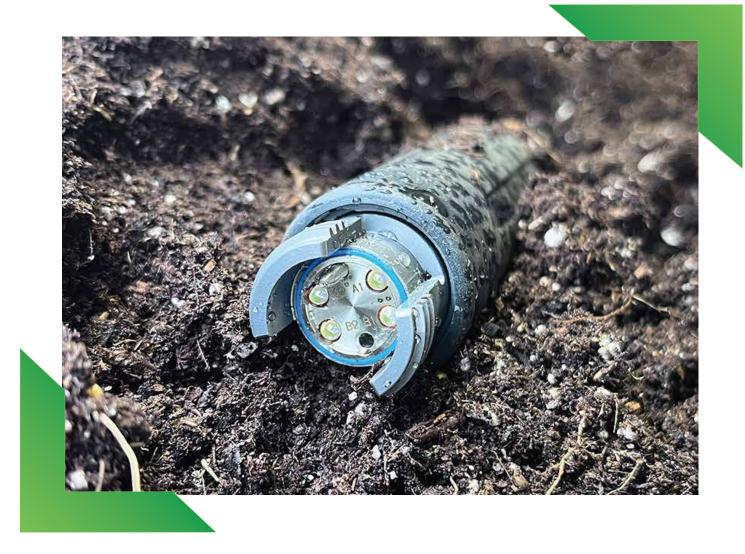
Available in multiple channel counts and configurations, the system supports both single-mode and multimode fibers, offering flexibility for a wide range of bandwidth and distance requirements.



Key Features

- Patented Technology:
 - Nortech's design expands and collimates the light beam at the connector interface, significantly reducing sensitivity to dust, debris, and misalignment. This innovation ensures consistent signal integrity even in dirty or high-vibration environments.
- Built to Withstand Extreme Mechanical Stress:
 - IP68-rated sealing for water and dust protection
 - High resistance to shock, vibration, and temperature fluctuations
- Low Maintenance, High Reliability
 - Unlike traditional physical contact connectors, the expanded beam interface is non-contact, minimizing wear and tear.

Unlike traditional physical contact connectors, the expanded beam interface is non-contact, minimizing wear and tear. This results in longer product life and reduced maintenance cycles—ideal for field-deployed systems.





Why Choose Expanded Beam Xtreme®?

- 1. Field-Proven Durability:
 - Tested in real-world conditions to exceed MIL-STD and IEC standards.
- 1. Patent-Backed Innovation:
 - Nortech's expanded beam design is a leap forward in optical connectivity.
- 1. Reduced Downtime:
 - Easy cleaning and robust construction means fewer failures and faster redeployments.











EBX Specifications Insertion Loss per Expanded -0.75 dB (Typical) -35 dB (Minimum) **Return Loss Per Expanded Beam Ball Lens Outer Diameter** 2.0 mm and 3.0 mm **Fiber Type** Bend Insentive OM3, OM4, OM5 **Typical Wavelength** 850nm 10 Gbps @ 10⁻¹² BER (Bit Error Rate) **Typical Bandwidth Endface Geometry Spec(s)** IEC 61300-3-35 -60°C to 85°C **Temperature** -10°C to 85°C and up to 98% Relative Humidity **Temperature Humidity Flex Life** 125,000 cycles 125,000 cycles **Mating Cycles** Static 10x OD, Dynamic 20x OD **Cable Bend Radius Flame Rating** Plenum (OFNP) **IPC-640 Compliant Process Control** RoHS 3 (2015/863/EU) **RoHS Compliant**



