

CMX-XBN02XM-XXXX Datasheet

The Complex FIBERFOX X-TREME series are rugged assemblies that are designed to ensure reliable performance while being deployed in the harshest environments. This series uses a PUR outer jacket and a double glass yarn cable construction to allow greater impacts by animals and outdoor environmental factors, while also being cut-proof and rodent resistant.

The expanded beam technology makes Complex FIBERFOX X-TREME highly resistant against dust, mud, liquids, and other contaminants, while also prioritizing precision optical alignment. The FIBERBOX hermaphroditic coupling eliminates the need for adaptors and male & female mating halves. The Complex FIBERFOX X-TREME Series are designed according to the MIL-DTL-83526 standard to fit all associated connectors. This series is ideal for lighting, network, PA, video, broadcast, defense & government, railway, and petrochemical environments.

Features:

- PUR Flame-retardant
- IP68 mated and unmated
- Cables are directly extendable (No Couplers required)
- Compatible with all MIL-DTL-83526 systems
- Excellent cable retention due to aramid yarn
- Withstands greater impact caused by animals and environmental conditions
- Rodent-Resistant & cut-Proof
- No Special Cleaning or measurement tools
- Benefiting from the expanded beam technology and the precision optical alignment the system creates high immunity against dust, mud, liquids and other contaminations
- For Demanding outdoor applications
- Extreme robust, heavy-duty connectors



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Specifications:

- **Gender:** Hermaphroditic
- **Fiber Type:** Multimode
- **Number of Fibers:** 2
- **Overall Diameter:** 0.36in (9.2 mm)
- **Core Diameter:** Multimode 50µm
- **Cladding Diameter:** 125 µm
- **Optical Connector:** EBC
- **Cable Retention Material:** Aramid Yarn
- **Outer Shield:** Coated glass yarn
- **Insertion Loss:**
 - Typical 1.5dB per Connection
 - Max 2.5dB per Connection
- **Boot Material:** Rubber (EPDM)
- **Boot Insert:** Steel
- **Boot Shell:** Aluminum
- **Boot Shell Plating:** Hard Anodize
- **Strain Relief:** Brass
- **Lifetime:** 10'000 mating cycles
- **Tensile Strength:** 1'800N
- **Compressive Load:** 50'000N
- **Bump Resistance:** 4000 bumps @ 40g acceleration
- **Vibrational Sinusoidal:** 10-500Hz, 0.75 amplitude @ 10g acceleration
- **Flammability:** UL 94 V-0
- **IP Rating:** IP68 mated and unmated
- **Mind Bend Radius:** 3.6in (92 mm)
- **Operating Temperature:** -40°F to 172°F (-40° C to +70° C)
- **Weight:** 0.055lbs/ft (82 kg/km)