

## CMX-XBN04MR-XXXX Datasheet

The Complex FIBERFOX reel series are rugged assemblies that are designed to ensure reliable performance while being deployed in the harshest environments. The expanded beam technology makes Complex FIBERFOX 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 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
- 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
- Robust, heavy-duty connectors



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### Specifications:

- **Gender:** Hermaphroditic
- **Fiber Type:** Multimode
- **Number of Fibers:** 4
- **Overall Diameter:** 2.2in (5.8mm)
- **Core Diameter:** Multimode 50µm
- **Cladding Diameter:** 125 µm
- **Optical Connector:** EBC
- **Cable Retention Material:** Aramid 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:** 2.2in (5.8cm)
- **Operating Temperature:** -40°F to 158°F (-40°C to + 70°C)
- **Weight:** 0.015lbs/ft (23 kg/km)

#### Export Information

Country of Origin: USA

US ECCN: EAR99

HTS Code: 8544.42

US Dept. of Commerce CCATS: N.a

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