

## CMX-XBN02S-XXXX Datasheet

The Camplex FIBERFOX series are rugged assemblies that are designed to ensure reliable performance while being deployed in the harshest environments. The expanded beam technology makes Camplex 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 Camplex 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. The Camplex FIBERFOX series is also available on a reel.

### 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
- 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



CMX-XBN02S



CMX-XBN02SR



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### Specifications:

- **Gender:** Hermaphroditic
- **Fiber Type:** Single Mode
- **Number of Fibers:** 2
- **Overall Diameter:** 0.19in (5.0 mm)
- **Core Diameter:** Single Mode 9 $\mu$ m
- **Cladding Diameter:** 125  $\mu$ m
- **Optical Connector:** EBC15
- **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
- **Min Bend Radius:** 1.96in (5.0cm)
- **Operating Temperature:** -40°F to 172°F (-40° C to +70° C)
- **Weight:** 0.015lbs/ft (23 kg/km)