

CMX-XBG02M Series Datasheet

The Camplex CMX-XBG02M/CMX-XBG02MR 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, petrochemical environments, and is available as snakes or on reels.

Features:

- PUR Flame-retardant
- IP68 Mated and Unmated
- Cables are Directly Extendable (No Couplers required)
- Compatible with 4CH FIBERFOX System and 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
- High Immunity Against Dust, Mud, Liquids and Other Contaminations
- For Demanding Outdoor Applications
- Extreme Robust, Heavy-duty Connectors



CMX-XBG02MR



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Specifications:

Complex OM4 Multimode Cable:

- **Fiber Type:** OM4
- **Fiber Count:** 2
- **Core/Cladding Diameter (μm):** 50/125
- **Numeric Aperture:** 0.2
- **Wavelength (nm):** 850/1310
- **Gigabit Ethernet Distance (m):** 1040/600
- **10-Gigabit Ethernet Distance (m):** 550/300
- **Maximum Cabled Attenuation (dB/km):** 3.0/1.0
- **Minimum Laser EMB Bandwidth (MHz-km):** 4700/500
- **Minimum OFL LED Bandwidth (MHz-km):** 3500/500
- **Primary Coating Diameter (μm):** 500
- **Secondary Coating Diameter (μm):** 900
- **Proof Test Level (kpsi):** 100
- **Jacket Material:** Polyurethane
- **Buffer Material:** Hard Elastomeric
- **Cable Diameter:** 2.0in (5.0mm)
- **Impact Resistance:** 1500 Impacts
- **Crush Resistance:** 1800 N/cm
- **Flex Resistance:** 2000 Cycles
- **Max. Tensile Load:**
 - Installation: 1800 N (400lbs)
 - Operating: 600 N (130lbs)
- **Min. Bend Radius:**
 - Installation: 2.0in (5.0cm)
 - Operating: 1.0in (2.5cm)
- **Temperature:**
 - Operating: -67°F to 185°F (-55°C to +85°C)
 - Storage: -94°F to 185°F (-70°C to +85°C)

Neutrik FIBERFOX EBC25 Connector:

- **Gender:** Hermaphroditic
- **Insertion Loss:** Typ. 1.5dB per Connection / Max. 2.5dB per Connection
- **Tensile Strength:** 1,800 N
- **Compressive Load:** 50,000 N
- **Bump Resistance:** 4000 Bumps @ 40g Acceleration
- **Vibrational Sinusoidal:** 10-500Hz, 0.75 Amplitude @ 10g Acceleration
- **Compatibility:** MIL-DTL-83526
- **Protection Class:** IP68 Mated (15m for 24h acc. MIL-DTL-83526D Section 3.11.28) and Unmated (1m for 24h)
- **Lifetime:** 10,000 Mating Cycles