

Complex CMX-X1QLCxxS Datasheet

Complex's X1QLC series of tactical fiber breakouts features a polyurethane jacket that provides excellent protection against harsh environments and ensures deployment survivability. Using the expanded beam hermaphroditic QPC QMini connector, which is compatible with all other HMA-style connectors made to MIL-DTL-83526 standards, these breakout to duplex LC connectors. The CMX-X1QLC Series is suitable for a wide range of applications, including lighting, networking, live events, military, and broadcast. The series is available in 2-channel or 4-channel versions, as well as Multimode or Single Mode.

Features:

- Polyurethane jacket provides abrasion, cut, and chemical resistance
- QPC QMini Intermateability: Neutrik FIBERFOX Tyco Pro Beam Jr., Amphenol TACBeam, Glenair GMA, Stratos HMA, Fibreco Junior, DiGiCo Compatible
- 2Ch / 4Ch Hermaphroditic Expanded Beam Connector System (will use respective Channel call)
- Robust, lightweight, rugged, tight-buffered cables designed for military tactical field use and commercial applications
- Helically stranded cable core for flexibility, deployment survivability, and exceptional mechanical protection for the optical fibers



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Specifications:

Complex Tactical Single Mode:

- **Jacket Material:** Polyurethane
- **Buffer Material:** Hard Elastomeric
- **Cable Diameter:** 0.22in (5.5mm)
- **Fiber Type:** Bend Tolerant Single Mode
- **Core/Cladding Diameter (µm):** 9/125
- **Numeric Aperture:** 0.2
- **Wavelength (nm): Single Mode:** 1310/155
- **Maximum Cabled Attenuation (dB/km):** 0.4/0.4
- **Primary Coating Diameter (µm):** 245
- **Secondary Coating Diameter (µm):** 900
- **Zero Dispersion Slope (ps.nm²-km):** 0.092
- **Proof Test Level (kpsi):** 100
- **Impact Resistance:** 1,500 Impacts
- **Crush Resistance:** 1,800 N/cm
- **Temperature:**
 - **Operating:** -67°F to 185°F (-55°C to +85°C)
 - **Storage:** -94°F to 185°F (-70°C to +85°C)
- **Max Tensile Load:**
 - **Installation:** 1800 N (400lbs)
 - **Operating:** 600 N (130lbs)
- **Min Bend Radius:**
 - **Installation:** 2.2in (5.5cm)
 - **Operating:** 1.1in (2.8cm)

QMini Connector:

- **Insertion Loss:** 0.75-2.0dB Max
- **Impact Resistance:** 8 Impacts @ 8FT (2.5MT), EIA/TIA-455-2
- **Shock Resistance:** 50g for 11ms, EIA/TIA-455-14, Condition A
- **IP Rating:** IP68
- **Lifetime:** 3000 Cycles
- **Operating Temperature:** -50°F to 185°F (-46°C to +85°C)

Senko Connectors:

- **Lifetime:** 500 Cycles
- **Ferrule Material:** Zirconia
- **Ferrule Diameter:** 125
- **Typical Insertion Loss (dB):** 0.08
- **Max. Insertion Loss (dB):** 0.2
- **Typical Return Loss (dB):** ≥55