

CMX-X3Q12S Single Mode Datasheet

The Camplex CMX-X3Q12S are tactical assemblies that features the QPC's QFoca Hermaphroditic Tactical Connector Line engineered for Harsh Environment and Military Ground Tactical applications. QFoca connectors are suitable for various applications, including Military Ground Tactical, Aerospace Ground Communications, oil and gas, Mining, Factory Automation, Heavy Equipment, Broadcast, Audio/Video, and Sensing Applications. Available in Single Mode and Multimode, and a variety of lengths.

Features:

- 12 Channel Hermaphroditic Physical Contact Connector System
- Designed to MIL-DTL-83526/16 (Plug) & MIL-DTL-83526/17 (Jam Nut Receptacle)
- QFoca Intermateability: Amphenol TFOCA-II, OCC TFOCA 2, Delphi DFOCA, Glenair GFOCA
- Sealed to IP68 Rating
- Lightweight MIL-Tactical Cable Ideal for use in Harsh Environments Where Deployment and Retrieval for Reuse are Required



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Specifications:

Complex CMX-SM-TAC12

- **Fiber Type:** Bend Tolerant Single Mode
- **Core/Cladding Diameter (µm):** 9/125
- **Wavelength (nm):** 1310/1550
- **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
- **Jacket Material:** Polyurethane
- **Buffer Material:** Hard Elastomeric
- **Cable Diameter:** 0.26in (6.5mm)
- **Impact Resistance:** 1500 Impacts
- **Crush Resistance:** 1800 N/cm
- **Max Tensile Load:**
 - Installation: 2,100 N (470 lbs)
 - Operating: 700 N (160 lbs)
- **Min Bend Radius:**
 - Installation: 2.6in (6.5 cm)
 - Operating: 1.3 in (3.3 cm)
- **Temperature:**
 - Operating: -40°F to 185°F (-40°C to +85°C)
 - Storage: -94°F to 185°F (-70°C to +85°C)

QPC QFoca Connector:

- **Insertion Loss:** 0.10-0.75dB Max. (0.40dB Typical)
- **Return Loss:** -55dB UPC
- **Lifetime:** 2000 Cycles
- **IP Rating:** IP68 - Dust Tight; No ingress of dust; complete protection against contact; Water Immersion Beyond 1 Meter
- **Vibration Resistance:** 10 to 2000Hz / 15g
- **Impact Resistance:** 8 Impacts @ 8FT (2.4MT)
- **Shock Resistance:** 50g for 11ms