

HF-T1M4 Series Datasheet

The Camplex HF-T1M4 Series of tactical fiber optic cables is engineered with mobility and durability in mind. It features a tactical-grade, tight-buffered optical fiber enclosed in a lightweight yet robust polyurethane jacket, offering superior abrasion resistance, flexibility, and weather protection. The HF-T1M Series is ideal for demanding broadcast, military, and industrial environments that require reliable, high-performance signal transmission in harsh conditions. Available in OM1, OM3, or OM4 multimode fiber options and on reels.

Features:

- Broadcast Deployable
- Indoor/Outdoor rated jacket
- Excellent crush and impact resistance due to their polyurethane Core-Locked outer jacket
- Designed to withstand crush and impact after deployment
- Strong, lightweight, and extremely durable cable



HF-T1M4-ST



HF-T1M4-LC



HF-TR1M4-ST



HF-TR1M4-LC

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Specifications:

Fiber Specifications:

- **Fiber Type:** Laser Optimized OM4 Multimode
- **Core/Cladding Diameter (μm):** 50/125
- **Numerical Aperture:** 0.2
- **Wavelength (nm):** 850/1310
- **Gigabit Ethernet Distance (m):** 1040/600
- **10-Gigabit Ethernet Distance (m):** 550/300
- **Maximum Cable Attenuation (dB/km):** 3.5/1.5
- **Minimum Laser EMB Bandwidth (MHz-km):** 4700/500
- **Minimum OFL LED Bandwidth (MHz-km):** 3500/500
- **Primary Coating Diameter (μm):** 500
- **Secondary Buffer Diameter (μm):** 900
- **Proof Test Level (kpsi):** 100
- **Jacket Material:** Polyurethane
- **Buffer Material:** Hard Elastomeric
- **Cable Diameter:** 0.11 in (2.9 mm)
- **Flex Resistance:** 2000 cycles
- **Crush Resistance:** 440 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:** 110lbs (500 N)
 - **Operating:** 70lbs (300 N)
- **Min Bend Radius:**
 - **Installation:** 1.1in (2.9cm)
 - **Operating:** 0.6in (1.5cm)

Senko Connector:

- **Typical Insertion Loss (dB):**
 - **LC:** 0.10
 - **ST:** 0.15
- **Max. Insertion Loss (dB):** 0.20
- **Typical Return Loss (dB):** ≥25
- **Ferrule Diameter (μm):** 127
- **Lifetime:** 500 Mating Cycles