

HF-TR1M3 Series Datasheet

The Complex HF-TR1M3 series is a rugged Single Channel OM3 Multimode Tactical Fiber cable on reel designed for deployment in various environments. The cable meets or exceeds Flex and crush resistance according to TIA-455 Military requirements. The HF-TR1M3 features a tactical hard elastomeric buffer material to ensure mechanical integrity under stress. Available in ST, LC and SC connectors.

Features:

- Broadcast Deployable
- Indoor/Outdoor-rated jacket
- Typical RL <-55dB and IL<0.25dB
- 500µm primary acrylate buffer with 900µm secondary hard elastomeric buffer (Ultra-Fox Plus)
- Excellent crush and impact resistance due to their polyurethane Core-Locked outer jacket
- Strong, lightweight, and extremely durable cable



HF-TR1M3-ST



HF-TR1M3-LC



HF-TR1M3-SC

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Specifications:

MTP Cable:

- **Fiber Type:** 1 Channel Multimode OM3
- **Core/Cladding Diameter (µm):** 50/125
- **Numerical Aperture:** 0.20
- **Wavelength (nm):** 850/1310
- **Gigabit Ethernet Distance (m):** 1000/600
- **10-Gigabit Ethernet Distance (m):** 300/300
- **Maximum Cable Attenuation (dB/km):** 3.5/1.5
- **Minimum Laser EMB Bandwidth (MHz-km):** 2000/500
- **Minimum OFL LED Bandwidth (MHz-km):** 1500/500
- **Primary Coating Diameter (µm):** 500
- **Secondary Coating Diameter (µm):** 900
- **Proof Test Level (kpsi):** 100
- **Max Tensile Load:**
 - **Installed:** 500 N (110 lbs)
 - **Operating:** 300 N (70 lbs)
- **Min Bend Radius:**
 - **Installed:** 1.1 in (2.9 cm)
 - **Operating:** 0.6 in (1.5 cm)
- **Jacket Material:** Polyurethane
- **Buffer Material:** Hard Elastomeric
- **Cable Weight:** 6 lbs/1000' (8.4 kg/km)
- **Cable Diameter:** 0.11in (2.9mm)
- **Flex Resistance:** 2000 cycles
- **Crush Resistance:** 440 N/cm

Senko Premium SC/LC Connectors:

- **Typical Insertion Loss (dB):** 0.10
- **Max Insertion Loss (dB):** 0.20
- **Typical Return Loss (dB):** ≥25

Senko Premium ST Connectors:

- **Typical Insertion Loss (dB):** 0.15
- **Max Insertion Loss (dB):** 0.30
- **Typical Return Loss (dB):** ≥25