

HF-TR02SCM3 Series Datasheet

The Complex HF-TR02SCM3 series is a rugged 2-channel OM3 Multimode Tactical Fiber cable on reel designed for deployment in various environments. The cable meets or exceeds Impact and Crush resistance according to TIA-455 Military requirements. The HF-TR02SCM3 features Tactical furcation tubing protecting individual channels as well as tactical hard elastomeric buffer material to ensure mechanical integrity under stress.

Features:

- Built With OCC Multichannel Tactical Cable & Heavy-Duty Connectors with Dust Caps
- Individual 36-Inch Fanout Channels Protected with Polyurethane Tactical Furcation Tubing
- Designed For Use in Adverse Environments Where Reduced Size and Weight Are Important
- Helically Stranded Cable Core for Flexibility, Deployment Survivability, and Exceptional Mechanical Protection for The Optical Fibers
- Suitable for Military Data Communications Applications
- Suitable for deployment in harsh environments
- Suitable For Outside Broadcast, Industrial, Mining and Petrochemical Environments
- Crush-Resistant and Resilient with A Thick Layer of Aramid Strength Members
- Polyurethane Jacketed for Abrasion, Cut, and Chemical Resistance
- Meets & Exceeds MIL-PRF-85045 Specifications



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Specifications:

MTP Cable:

- **Fiber Type:** 2 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):** 3.0/1.0
- **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:** 1,800 N (400 lbs)
 - **Operating:** 600 N (130 lbs)
- **Min Bend Radius:**
 - **Installed:** 2.0 in (5.0 cm)
 - **Operating:** 1.0 in (2.5 cm)
- **Jacket Material:** Polyurethane
- **Buffer Material:** Hard Elastomeric
- **Cable Weight:** 14 lbs/1000' (21 kg/km)
- **Cable Diameter:** 0.20in (5.0mm)
- **Impact Resistance:** 200 Impacts
- **Crush Resistance:** 440 N/cm
- **Flex Resistance:** 2000 Cycles

Senko Premium Connectors:

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