

HF-T1ASCASC Datasheet

The Complex HF-T1ASCASC is a tactical single-channel, Single Mode fiber optic cable assembly terminated with APC SC connectors on both ends, designed for field-deployed communications infrastructure where cable runs must survive harsh outdoor handling without sacrificing signal quality. It's suitable for operators who need dependable Single Mode connectivity in tactical, mobile, or harsh environments.

Features:

- Broadcast Deployable
- Indoor/Outdoor rated jacket
- Typical RL <-55dB and IL<0.25dB
- Wide temperature range (typically -55°C to 85°C)
- 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
- Designed to withstand crush and impact after deployment
- Strong, lightweight and extremely durable cable



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Specifications:

Tactical Single Mode 1 Channel Fiber Cable:

- **Fiber Type:** Low Water Peak Single Mode
- **Number of Channels:** 1
- **Core/Cladding Diameter (μm):** 9/125
- **Wavelength (nm):** 1310/1550
- **Maximum cabled Attenuation (dB/km):** 0.5/0.5
- **Primary Coating Diameter (μm):** 500
- **Secondary Buffer 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:** 0.11in (2.9mm)
- **Flex Resistance:** 2,000 Cycles
- **Crush Resistance:** 440 N/cm
- **Max. Tensile Load:**
 - Installation: 500 N (110 lbs)
 - Operating: 300 N (70 lbs)
- **Min. Bend Radius:**
 - Installation: 1.1in (2.9cm)
 - Operating: 1.5in (1.5cm)
- **Temperature:**
 - Installation: -13°F to 140°F (-25°C to +65°C)
 - Operating: -67°F to 185°F (-55°C to +85°C)
 - Storage: -94°F to 185°F (-70°C to +85°C)

Senko APC SC Connectors:

- **Typical Insertion Loss (dB):** 0.12
- **Max. Insertion Loss (dB):** 0.25
- **Typical Return Loss (dB):** ≥65
- **Ferrule Diameter:** 125
- **Lifetime:** 500 mating cycles