

Complex HF-TSX/TRX Single Mode Datasheet

The Complex HF-TSXxxLC and HF-TSXxxST are field-deployable, high-performance X-Treme fiber-optic assemblies designed for portable broadcast, live production, and mission-critical environments. This series features the Complex GMRTA04 X-Treme Single Mode fiber cable, which utilizes aramid-yarn strength members and a tough polyurethane outer jacket, providing superior mechanical protection and improved rodent protection. Available in LC and ST connectors, as well as snake or reel configurations.

Features:

- High Quality Complex Single Mode Outdoor X-Treme Rated Cable
- Premium Senko Connectors Provide Low Insertion Loss
- Glass Yarn Provides Improved Rodent Protection
- Reeled Versions are on High-Quality Schill or JackReel, dependent on length



HF-TSX02LC

*Available in LC and ST configurations



HF-TRX04ST

*Available in LC and ST configurations

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Specifications:

Complex XTREME Single Mode Cable:

- **Fiber Type:** OS2 Single Mode
- **Fiber Buffer Material:** Nylon
- **Fiber Buffer Construction:** Tight
- **Fiber Buffer Diameter:** 0.03in (0.9mm)
- **Fiber Count:** 4
- **Cable Core Water Blocking Material:** Water Blocking Aramid Yarns+Glass Yarns
- **Inner Jacket Material:** Polyurethane (PUR)
- **Outer Jacket Material:** Polyurethane (PUR)
- **Outer Jacket Nom. Diameter:** 0.36in (9.2mm)
- **Max. Attenuation:**
 - 0.40 dB/km @1310nm
 - 0.30 dB/km @1550nm
 - 0.30 dB/km @1625nm
- **Min. Bend Radius:**
 - **Installation:** 2.89in (73.6mm)
 - **Operation:** 1.44in (36.8mm)
- **Max. Tensile Strength:**
 - **Installation:** 2400 N (540 lbf)
 - **Operation:** 800 N (180 lbf)
- **Max. Crush Resistance:**
 - **Installation:** 5 kN/m
 - **Operation:** 3 kN/m
- **Temperature:**
 - **Installation:** 23°F to 122°F (-5°C to +50°C)
 - **Operating:** -94°F to 185°F (-70°C to +85°C)
- **Storage:** -94°F to 185°F (-70°C to +85°C)
- **ISO/IEC Compliance:** IEC 60794/ISO/IEC 11801-1

Senko LC and ST Connectors:

- **Typical Insertion Loss (dB):** 0.08
- **Max. Insertion Loss (dB):** 0.2
- **Typical Return Loss (dB):** ≥55
- **Ferrule Material:** Zirconia
- **Ferrule Diameter (µm):** 125
- **Lifetime:** 500 Matings

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Specifications:

Reels Specs:

- **Dims:**
 - **Schill GT380 (L x W x H):** 19.5" x 15.5" x 13.25"
 - **Schill GT385 (L x W x H):** 19.5" x 15.5" x 13.25"
 - **Schill HT485 (L x W x H):** 22" x 18.5" x 13.50"
 - **JackReel-XL1:**
 - **H x W x D (with Casters):** 21.18" x 21.75" x 17.87"
 - **Height Without Casters:** 17.87"
- **Material:**
 - **Schill GT380:** Synthetic Rubber
 - **Schill GT385:** Steel
 - **Schill HT485:** Steel
 - **JackReel-XL1:** Tubular Steel