

HF-STBP8 Datasheet

This inline SMPTE hybrid breakout cable from Complex provides a more cost effective way to achieve a SMPTE run when connecting two Complex HYMOD series breakout boxes or two chassis mounted SMPTE breakouts by utilizing standard fiber connectors and power breakouts. The HF-STBP8 series features duplex ST fiber optic runs and a 6-Pin Amp Power Plug. Cables are designed with two Single Mode fibers, and four 20 AWG and two 24 AWG tinned copper conductors with a tinned copper braid shield in an overall flexible PVC jacket. Designed for use with HDTV signals, the camera cable is compliant with ARIB and SMPTE standards.

Features:

- Assembled with Premium Complex SMPTE Cable & Senko Connector
- Electrical Assemblies 100% Tested for Continuity and Shorts
- Fiber Optic Assemblies 100% Tested for Attenuation and Back Reflection
- 19.4 Mbps to 3 Gbps Transport
- Machine Polished Fiber Contacts Low Insertion and Return Loss (Documented)



Export Information

Country of Origin: USA

US ECCN: EAR99

HTS Code: 8544.42

US Dept. of Commerce CCATS: N.a

A Division of Tower Products Incorporated

Revision #01

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Specifications:

Complex C96921 Riser SMPTE Hybrid Fiber Cable:

Component 1:

- **Conductor AWG:** 20
- **Conductor Stranding:** 19/32
- **Conductor Material:** Tinned Copper
- **Insulation Material:** Polyethylene
- **Nom. Diameter:** 0.060in (1.52mm)

Component 2:

- **Conductor AWG:** 24 AWG
- **Conductor Stranding:** 7/32
- **Conductor Material:** Tinned Copper
- **Insulation Material:** Polyethylene
- **Nom. Diameter:** 0.045in (1.14mm)

Component 3:

- **Fiber Type:** OS2 Single Mode
- **Number of Channels:** 2
- **Buffer:** Tight Buffer
- **Material:** Thermoplastic
- **Diameter:** 900 ± 50 micron (.035 ± .002in)

Overall Construction:

- **Strength Element:** Upjacketed Stranded Steel Member
- **Barrier:** Overall Barrier Tape (25% Overlap, Nominal)
- **Shield Material/Coverage %:** Tinned Copper Braid 36 AWG, 90% Minimum
- **Jacket Material:** Polyvinyl Chloride
- **Jacket Thickness:** 0.062in (1.52mm)
- **Overall Cable Diameter:** 0.362in ± 0.012in (9.19mm ± 0.30mm)
- **Voltage Rating:** 300V
- **Optical Attenuation @ 1310nm:** <0.8dB/km
- **DCR:**
 - Component 1(20AWG): <36Ω/km
 - Component 2(24AWG): <92Ω/km
- **Max. Cable Pull Strength:** 160lbs
- **Min. Bend Radius:** 2.5in (63.5mm)
- **Temperature:**
 - Operation: -4°F to 167°F (-20°C to +75°C)
 - Installation: 32°F to 167°F (-0°C to +75°C)

Senko Connectors:

- **Lifetime:** 500 Matings
- **Ferrule Material:** Zirconia
- **Ferrule Diameter (µm):** 125
- **Typical Insertion Loss (dB):** 0.1
- **Max. Insertion Loss (dB):** 0.2
- **Typical Return Loss (dB):** ≥55