

## L33FLEX-B-B DATASHEET

Laird's L33FLEX-B-B series of flexible 12G-SDI mini-coaxial cable assemblies is designed for UHD video signal transmission, in high-frequency applications up to 12 GHz with minimal signal degradation. Taking advantage of the Canare L-3.3CUHWS's highly foamed insulation and Canare BCP-D33UHW 75 Ohm BNC connectors, this series provides a durable yet flexible low-loss 12G-rated cable assembly. The L33FLEX-B-B is ideal for professional broadcast and video production environments.

**\*\*Laird Certifies this cable to work at a Max Transmission Distance of 98 Feet for 12G-SDI. To meet the Laird max transmission standard, signal integrity must remain 100% functional without any CRC errors. Your 12G-SDI ST 2082 signals may function at or beyond the manufacturer-certified lengths without issues; however, when CRC errors are present, there could be drops in audio, video, meta, and ancillary data. In most circumstances, video integrity remains intact at OEM distance.\*\***

### Features:

- High-quality Canare BNC connectors
- Durable, flexible 12G Cable allows for versatile use
- Low-loss structure ensures reliable signal strength
- Highly foamed PE Insulation



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### Specifications:

#### Canare L-3.3CUHWS:

- **Outer Diameter:** 0.22in (5.8mm)
- **Inner Conductor Material:** Annealed Copper
- **Inner Conductor Gauge:** 22 AWG
- **Inner Conductor Outer Diameter:** 0.03in (0.78mm)
- **Insulation Material:** Foamed Polyethylene
- **Insulation Thickness:** 0.04in (1.26mm)
- **Insulation Outer Diameter:** 0.12in (3.30mm)
- **Outer conductor 1 Material/Coverage:** Tinned Annealed Copper/≥ 92%
- **Outer Conductor 1 Outer Diameter:** 0.14in (3.7mm)
- **Outer Conductor 2 Material/Coverage:** Tinned Annealed Copper/≥ 92%
- **Outer Conductor 2 Outer Diameter:** 0.16in (4.2mm)
- **Sheath Material:** PVC
- **Sheath Thickness:** 0.03in (0.8mm)
- **Rated Voltage:** AC 60 Vrms
- **DC Resistance:**
  - **Inner Conductor:** ≤50.2Ω/km
  - **Outer Conductor:** ≤9.0Ω/km
- **Insulation Resistance:** ≥1000MΩ-km
- **Characteristic Impedance:** 75±3Ω (10MHz)
- **Nom Attenuation:**
  - **1.5GHz:** 44.8dB/100m
  - **2.0GHz:** 52.6dB/100m
  - **2.5GHz:** 60.4dB/100m
  - **3.0GHz:** 66.1dB/100m
  - **6.0GHz :** 98.7dB/100m
- **Nom. Capacitance:** 56.5nF/km ( 1kHz)
- **Min Bend Radius:** 1.32in (34.8mm)
- **Temperature Range:** 22°F to 140°F (-30°C to +60°C)
- **Weight:** 0.03lbs/ft

#### Canare BNC Connector:

- **Nom. Impedance:** 75Ω unbalanced
- **Insulation Resistance:** 5000MΩ or more
- **Contact Resistance:**
  - **Between External Contacts:** 3mΩ or less
  - **Between Center Contacts:** 6mΩ or less
- **Return Loss:**
  - 26dB or more (0~ 3GHz)
  - 20dB or more (0~ 6GHz)
  - 15dB or more (0~12GHz)