

12GSDI-B-B DATASHEET

The Laird 12GSDI-B-B series features Canare's L-5.5CUHD flexible coaxial cable and Canare BNC connectors to support reliable 12G-SDI transmission. The L-5.5CUHD is a highly foamed multi-layer cable ideal for reducing attenuation and ensuring low return loss. The Canare BNC connectors feature a gold-plated "Snap Lock" center pin to provide perfect alignment when connected to equipment.

Laird Certifies this cable to work at a Max Transmission Distance of 250 Feet for 12G-SDI, even though Canare may show this distance as 330 Feet. 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:

- Riser Rated (CMR)
- SMPTE ST-2082-1 Compliant 12G-SDI-4K UHD Capable
- Gold Plated "Snap lock" center pin and beryllium Copper outer contact
- Elongated BNC body design for better grip
- Highly Foamed Multi-layer PE Insulation
- Corrosion Resistant BCP-D55UHD BNC connectors



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Specifications:

- **AWG:** 16
- **Nominal O.D:** 0.3in (7.7mm)
- **Insulation Type:** Foamed Polyethylene
- **Insulation O.D:** 0.21in (5.5mm)
- **Insulation Thickness:** 0.08in (2.10mm)
- **Inner Conductor:** 0.05in (1.35mm)
- **Outer Conductor 1:** Copper Laminated Tape
- **Outer Conductor 2:** Tinned Annealed Copper Coverage $\geq 91\%$
- **Outer Conductor:** Copper
- **Outer Conductor Braid:** 0.12TA/8/24
- **Min Bend Radius (Installed):** >6 times of the cable O.D.
- **Min Bend Radius (Flexing):** >15 times of the cable O.D.
- **Nominal Attenuation:**
 - 1.5GHz: 18.6dB/100m 3G-SDI
 - 3.0GHz: 26.8dB/100m 6G-SDI
 - 6.0GHz: 39.1dB/100m 12G-SDI
- **Return Loss:**
 - 26.4dB (0 ~ 3GHz)
 - 20dB (0 ~ 6GHz)
 - 15dB (0 ~ 12GHz)
- **Nominal impedance:** 75 Ω
- **Insulation Resistance:** 5000M Ω
- **Connecting Force:** 200N for L-5.5CUHD
- **Temperature Range:** -4°F to 167°F (-20°C to +75°C)
- **Weight:** 0.04lbs/ft (0.07kg/m)