

LAIRD 4694F-BA-BF-XXX DATASHEET

The Laird 4694F-BA-BF series uses the Belden 4694F 12 GHz, precision coaxial cables designed for 4K UHD applications, a more flexible version of the popular Belden 4694 cable. The 4694F-BA-BF series is terminated with Amphenol RF Right angled male BNC to female straight BNC connectors, making this perfect for fast and secure equipment connections in high-density areas such as production trucks, studios and control rooms. Belden's certified max transmission Distance: 12G signals up to 184 feet, 6G up to 284 feet, and 3G up to 426 feet. Laird's certified max transmission distance: 125 Feet for 12G/4K.

** Laird certified lengths are defined as max transmission where signal integrity remains 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:

- BNC Bayonet coupling mechanism provides positive, quick mating and un-mating
- Belden 4694F 12 GHz flexible, precision coaxial cable
- High Quality Amphenol BNC Connectors
- Hand made and tested in the USA
- MIL-STD 202 rated
- Meets requirements for SMPTE: 2082-1 (12 Gb/s UHDTV), SMPTE 2081-1 (6 Gb/s UHDTV), SMPTE 424M (3Gb/s HD-SDI 1080P)



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Specifications:

- **RG Type:** 6
- **Number of Elements:** 1
- **AWG:** 18
- **Stranding:** Solid
- **Nom. Diameter:** 0.040in (1.01mm)
- **Conductor Material:** Silvered Copper-(SC)
- **Insulation Material:** Gas Injected-Polyethylene-(PE) (Foam)
- **Nom. Insulation Diameter:** 0.180 in (4.57 mm)
- **Outer Shield Type:** Braid
- **Outer Shield Material/Coverage:** Tinned Copper (TC)-95%
- **Jacket:** Polyvinyl Chloride (PVC)
- **Nom. Jacket Diameter:** 0.276 in (7.01 mm)
- **Overall Cable Nom. Diameter:** 0.276 in (7.01 mm)
- **Return Loss:**
 - 5 MHz - 1600 MHz - 23dB
 - 1600 MHz - 4500 MHz - 21dB
 - 4500 MHz - 12000 MHz - 15dB
- **Nom. Conductor DCR:** 6.4 Ohm/1000ft (21 Ohm/km)
- **Nom. Outer Shield DCR:** 1.5 Ohm/1000ft (4.9 Ohm/km)
- **Nom. Capacitance Cond-to-Shield:** 15.9 pF/ft (52.2 pF/m)
- **Nom. Characteristic Impedance:** 75 Ω
- **Nom. Velocity of Prop:** 85%
- **UL Voltage Rating:** 300 V RMS
- **UL Temperature:** 167°F (75°C)
- **Operating Temperature:** -22°F to 167°F (-30°C To +75°C)
 - **Bend Radius: Fixed:** 2.75 in (69.9 mm) **Flexing:** 2.75 in (69.9 mm)
- **Max Pull Tension:** 80lbs (36 kg)
- **Cable Weight:** 0.048lbs/ft
- **Flammability Rating:** UL 1685

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Specifications:

Amphenol RF BNC Connectors:

- **Body Finish:** Nickel
- **Body Material:**
 - **Right Angle:** Brass
 - **Straight:** Phosphor Bronze
- **Contact Material:**
 - **Right Angle:** Brass
 - **Straight:** Gold
- **Insulator Material:** PTFE
- **Impedance (Ohms):** 75 Ω
- **Frequency (Max GHz):** 4GHz
- **Temperature:** -40°F to 185°F (-40°C to 85°C)