

## 4855R10 BNC SERIES DATASHEET

Laird's 4855R10 BNC cable series features 10 channels of Belden's 4855R miniature coaxial cable, terminated with high-quality Amphenol RF BNC connectors to provide excellent 12G-SDI performance over extended distances. These assemblies offer excellent 12G-SDI performance, delivering a clean signal up to 117ft with exceptional signal integrity and low return loss up to 12 GHz, ideal for UHD/4K video workflows. Available in Male-to-Male and Male-to-Female configurations.

**\*\*Laird Certifies this cable to work at a Max Transmission Distance of 117 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:

- Belden Riser Rated 4855R and High-Quality Amphenol RF BNC Connectors
- Space Saving 10 Channels in One Snake
- Easy Handling & Portability
- Each Channel is Rated for 12G-SDI
- Flexible Cable Suitable for Studio or Field Applications



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### Specifications:

#### Belden 4855R10:

- **RG Type:** Mini RG-59
- **Conductor AWG:** 23
- **Conductor Stranding:** Solid
- **Conductor Nom. Diameter:** 0.023in
- **Conductor Material:** Silvered Copper
- **Insulation Nom. Diameter:** 0.102in
- **Insulation Material:** Polyethylene Foam
- **Inner Shield Type:**
  - **Layer 1:** Tape
  - **Layer 2:** Braid
- **Inner Shield Material/Coverage:**
  - **Layer 1:** Tri-Laminate (Alum+Poly+Alum)/100%
  - **Layer 2:** Tinned Copper/95%
- **Inner Jacket Nom. Diameter:** 0.159in
- **Inner Jacket Material:** Polyvinyl Chloride
- **Outer Jacket Nom. Diameter:** 0.786in
- **Outer Jacket Material:** Polyvinyl Chloride
- **Return Loss:**
  - 5 - 1600 MHz 23 dB
  - 1600 - 4500 MHz 21 dB
  - 4500 - 12000 MHz 15 dB
- **Nom. Conductor DCR:** 19.7 Ohm/1000ft (64.6 Ohm/km)
- **Nom. Inner Shield DCR:** 3.8 Ohm/1000ft (12 Ohm/km)
- **Nom. Capacitance Cond-to-Shield:** 16.3 pF/ft (53.5 pF/m)
- **Nom. Characteristic Impedance:** 75 Ohm
- **Nom. Velocity of Prop.:** 82%
- **UL Voltage Rating:** 300 V RMS (CMR)
- **Operating Temperature:** -22°F to 167°F (-30°C to +75°C)
- **Min. Bend Radius:** 7.9 in
- **Max. Pull Tension:** 330lbs

#### Amphenol RF connectors:

- **Frequency (Max GHz):** 12
- **Impedance (Ohms):** 75Ω
- **Body Finish:** Nickel
- **Body Material:** Brass
- **Contact Finish:** Gold
- **Insulator Material:** PTFE