

4855R16-BFMB DATASHEET

The Laird 4855R16-BFMB 16-Channel 12G-SDI/4K UHD video BNC cable series is designed for multi-channel transmission of SD/HD/3G/6G/12G-SDI signals. Each cable features a silver-plated copper center conductor and a low-profile diameter of less than 1/8 inch, making it a good choice for patch bays and OB trucks to save space and simplify cable runs. They are also easily deployable and wrapped up for use in stadiums and live event venues. Belden's certified max transmission distance: 12G signals up to 149 feet, 6G up to 215 feet, and 3G up to 310 feet. Laird's certified max transmission distance: 117 Feet for 12G/4k.

** Laird certified lengths are defined as max transmission where signal integrity remains 100% functional without any CRC errors, your 12GSDI 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:

- Designed for UHD and 4K Video Transport 12 GHz, 4K UHD Precision 75-Ohm Video Cable
- Space Saving 16 Channels in One Snake
- Easy Handling & Portability
- Each Channel is Rated for 12G-SDI
- Flexible Cable Suitable for Studio or Field Applications
- Strain Relief Boots for Fast Identification
- Quick/Disconnect with BNC & HD-BNC Connectors
- Meets SMPTE 424M, ST 2081-1 and ST2082-1 Standards



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Specifications:

Belden 4855R Specifications:

- **RG Type:** Mini 59
- **Conductor AWG:** 23 AWG
- **Conductor Stranding:** Solid
- **Conductor Diameter:** 0.023in
- **Conductor Material:** Silvered Copper
- **Insulation Material:** Polyethylene
- **Insulation Diameter:** 0.102in
- **Outer Shield Layer 1 Type:** Tape
- **Outer Shield Layer 1 Material/Coverage:** Tri-Laminate (Alum+Poly+Alum)/100%
- **Outer Shield Layer 2 Type:** Braid
- **Outer shield Layer 2 Material/Coverage:** Tinned Copper/95%
- **Inner Jacket Material:** Polyvinyl Chloride
- **Inner Jacket Diameter:** 0.159in
- **Outer Jacket Material:** Polyvinyl Chloride
- **Outer Jacket Diameter:** 0.917in
- **Nom. Conductor DCR:** 19.7 Ohm/1000ft
- **Nom. Outer 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%
- **Min. Bend Radius:** 9.2in
- **Return Loss:**
 - 5 - 1600 MHz 23 dB
 - 1600 - 4500 MHz 21 dB
 - 4500 - 12000 MHz 15 dB
- **Min. Bend Radius:** 1.6in

Ampehnol RF Connector Specifications:

- **Frequency (Max GHz):** 12GHz
- **Impedance (Ohms):** 75Ω