

4694RX5 HD-BNC SERIES DATASHEET

Laird's 4694RX5 HD-BNC cable series features 5 channels of Belden's 4694R coaxial cable, terminated with high-quality Amphenol RF connectors to provide excellent 12G-SDI performance over extended distances. These assemblies offer excellent 12G-SDI performance, delivering a clean signal up to 190ft with exceptional signal integrity and low return loss up to 12GHz. Ideal for UHD/4K video workflows. Available in BNC Female-to-HD-BNC Male, BNC Male-to-HD-BNC Male, and HD-BNC-to-HD-BNC configurations.

Laird Certifies this cable to work at a Max Transmission Distance of 190 Feet for 12G-SDI, even though Belden may show this distance as 257 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:

- High Quality Amphenol RF BNC and HDBNC Connectors
- Space Saving 5 Channels in One Snake
- Each Channel Rated 12G-SDI
- Flexible Cable Suitable for Studio or Field Applications
- Color-Coded Strain Relief Boots for Fast Identification
- Quick Connect/Disconnect with Bayonet Coupling



4694RX5-BFMB



4694RX5-BMB



4694RX5-MBMB

4694RX5 HD-BNC SERIES DATASHEET

Specifications:

Belden 4694RX5:

- **RG Type:** 6
- **Number of Conductors:** 5
- **Conductor AWG:** 18
- **Conductor Stranding:** Solid
- **Conductor Nom. Diameter:** 0.04in (1.01mm)
- **Conductor Material:** Silvered Copper
- **Insulation Nom. Diameter:** 0.180in (4.57mm)
- **Insulation Material:** Polyethylene (Gas Injected Foam)
- **Inner Shield Layer 1 Type:** Tape
- **Inner Shield Layer 1 Material/Coverage:** Tri-Laminate (Alum+Poly+Alum)/100%
- **Inner Shield Layer 2 Type:** Braid
- **Inner Shield Layer 2 Material/Coverage:** Tinned Copper/95%
- **Inner Jacket Nom. Diameter:** 0.27in (6.96mm)
- **Inner Jacket Material:** Polyvinyl Chloride
- **Outer Jacket Nom. Diameter:** 0.97in (24.63mm)
- **Outer Jacket Material:** Polyvinyl Chloride
- **Return Loss:**
 - 5 MHz - 1600 MHz 23 dB
 - 1600 MHz - 4500 MHz 21 dB
 - 4500 MHz - 12000 MHz 15 dB
- **Nom. Conductor DCR:** 6.4 Ohm/1000ft (21 Ohm/km)
- **Nom. Capacitance (Cond-to-Shield):** 15.9 pF/ft (52.2 pF/m)
- **Nom. Characteristic Impedance:** 75 Ohm
- **Nom. Velocity of Prop:** 85%
- **Voltage Rating:** 300 V RMS
- **Operating Temperature:** -4°F to 167°F (-20°C to +75°C)
- **Max. Pull Tension:** 280lbs (130kg)

Amphenol RF Connectors:

- **Body Finish:** Nickel
- **Contact Finish:** Gold
- **Contact Material:** Phosphor Bronze
- **Coupling Mechanism:** Bayonet
- **Impedance:** 75Ohm
- **Insulator Material:** PTFE