

## 4505R-B-B

## CABLE SERIES

### 4505R-B-B 12G-SDI/4K UHD Single Link BNC Cable

The Laird 4505R-B-B Series 12G-SDI/4K UHD Single Link BNC Cables maximize 12GHz, 4K UHD signal transmission over a single coax cable while minimizing weight and space and reducing connectivity. The cables are terminated with Belden 12GHz BNC connectors. The Belden 20AWG precision coax cable features a PVC jacket and a silver-plated copper conductor with gas-injected foamed HD polyethylene insulation. Designed for critical equipment connectivity and signal flow, these sturdy cable assemblies provide secure equipment connections in production trucks, control rooms, and studios. Belden's certified max transmission distance: 12G Signals up to 208 feet, 6G up to 302 feet, and 3G up to 433 feet. Laird's certified max transmission distance: 150 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:

- Designed for UHD and 4K Video Transport
- 12 GHz, 4K UHD Precision 75-Ohm Video Cable
- Single Link BNC Simplifies Installations
- Optimized Transmission Distance for UHDTV
- Return Loss: Guarantees -15 dB RL from 4.5 to 12GHz
- Meets SMPTE 424M, ST2081-1 and ST2082-1 Standards
- Sweep tested 5 MHz to 12 GHz

### Specifications:

- **Belden 20 AWG 12G SDI Coax Cable with PVC Jacket**
  - Belden Certified Max Transmission Distance: 12G Signals up to 208 feet, 6G up to 302 feet, and 3G up to 433 feet
  - Laird Certified Max Transmission Distance: 150 Feet for 12G/4K
  - 12G-Optimized Belden BNC Connectors Compatible with 12GSDI Single Link Format Devices
  - Transmission Distance: 12G Signals up to 208 feet, 6G up to 302 feet, and 3G up to 433 feet
  - Number of Coax: 1
  - Stranding: Solid Conductor Material SPC - Silver Plated Copper Diameter: 0.813mm
  - Outer Jacket Material: PVC - Polyvinyl Chloride Overall
  - Nominal Diameter: 5.918 mm
  - Operating Temperature Range: -30°C To +75°C
  - Bulk Cable Weight: 46.134 Kg/Km
  - Max. Recommended Pulling Tension: 231.306 N Min. Bend Radius/Minor Axis: 63.500 mm Nom.
  - Characteristic Impedance: Impedance (Ohm) 75 Nom.
  - Inductance: Inductance (μH/m) 0.351067
  - Nom. Capacitance Conductor to Shield: Capacitance (pF/m) 52.824
  - Nominal Velocity of Propagation: VP (%) 83.000
  - Nominal Delay: Delay (ns/m) 4.003
  - Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km): 33.466
  - Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/km): 11.155
  - Max. Operating Voltage - UL: Voltage 300 V RMS Other Electrical Characteristic 2
  - Return Loss: Fixed bridge and termination

