

HDBRA12G59 SERIES DATASHEET

The Laird HDBRA12G59 Tactical Series delivers rugged, reliable, field-ready 12G performance for broadcast and mobile production. These tactical assemblies are built using flexible Mini RG-59 12G-SDI cable, featuring a double-shielded foil and braid combination and a flexible TPE jacket, to ensure reliable signal strength and superior protection from interference in harsh environments. Available in multiple HD-BNC Right Angle configurations and standard lengths for reliable deployment in field and broadcast applications.

** Laird Certifies this cable to work at a Max Transmission Distance of 115 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:

- Flexible TPE Jacket
- 12G-SDI 4K UHD cable for mobile and deployable applications
- Excellent protection from signal interference
- Double-shielded: Foil and Braid composition
- Supports 12Gbps transmission of uncompressed 4K UHD
- High-quality HD-BNC Right-Angle and BNC connectors

HDBRA12G59-B



HDBRA12G59-BF



HDBRA12G59-RA



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Specifications:

Laird Mini RG-59 12GSDI:

- **RG Type:** Mini RG-59
- **Inner Conductor O.D.:** 0.02in (0.584mm)
- **Inner Material:** Silver Plated Copper
- **Dielectric O.D.:** 0.10in (2.59mm)
- **Dielectric Material:** Foam HDPE
- **First Shield Thickness:** 0.10in (2.70mm)
- **First Shield Material:** Bonded Aluminum Foil
- **Second Shield Thickness:** 0.12in (3.15mm)
- **Second Shield Material:** Tinned Copper Braid
- **Jacket O.D.:** 0.15in (4.05mm)
- **Jacket Material:** TPE
- **Impedance:** 75 Ohms
- **Max. Frequency:** DC to 12 GHz
- **Capacitance:** 53 pF/m
- **Attenuation (per 100m)**
 - 270.000 MHz/17.84 dB
 - 1000.000 MHz/35.40 dB
 - 12000.000 MHz/135.00 dB
- **Velocity of Propagation:** 83%
- **Bending Radius:**
 - **Static:** 0.55in (14mm)
 - **Flexing:** 0.55in (14mm)
- **Temperature:** -4°F to 167°F (-20°C to +75°C)

BNC Connectors:

- **Dielectric Withstanding:** 1500 Volts RMS Maximum
- **Impedance:** 75 Ohms
- **Interface Frequency:** 12 GHz
- **Lifetime:** 500 Mating Cycles

HD-BNC Right-Angle Connectors:

- **Dielectric Withstanding:** 500 Volts RMS Maximum
- **Impedance:** 75 Ohms
- **Interface Frequency:** 12 GHz
- **Lifetime:** 500 Mating Cycles