

# 12G-M59 BNC SERIES DATASHEET

The Laird 12G-M59 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 BNC 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 BNC connectors

12G-M59-BB

12G-M59-BBF

12G-M59-BBA

12G-M59-BABA

12G-M59-BABF



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## Specifications:

### Laird Mini RG-59 12G-SDI:

- **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