

TRI-1857A DATASHEET

The Laird TRI-1857A series of triaxial cable assemblies are designed for ENG, studio, and remote production environments where a single terminated assembly needs to withstand repeated field use. Suitable for broadcast engineers and system integrators specifying or building out pre-terminated camera assemblies for camera-to-CCU applications.

Features:

- High-Quality Canare Triaxial Connectors
- Flexible Belden 1857A Cable
- Dual Bare Copper Braid Shielding for strong RF Rejection
- Indoor/Outdoor Rated
- Push-lock connector mechanism for secure mating



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Specifications:

Belden RG-59 1857A Cable:

- **Construction Type:** RG-59
- **Conductor Size:** 22 AWG
- **Conductor Stranding:** 19x34
- **Conductor Nom. Diameter:** 0.031in (0.78mm)
- **Conductor Material:** Bare Copper
- **Insulation Material:** Polyethylene
- **Insulation Nom. Diameter:** 0.143in (3.63 mm)
- **Inner Shield Type:** Braid
- **Inner Shield Material/Coverage %:** Bare Copper/95%
- **Inner Jacket Material:** Polyethylene
- **Inner Jacket Nom. Diameter:** 0.216in (5.49 mm)
- **Outer Shield Type:** Braid
- **Outer Shield Material/Coverage %:** Bare Copper/95%
- **Outer Jacket Material:** Polyvinyl Chloride
- **Outer Jacket Nom. Diameter:** 0.360in (9.14 mm)
- **Overall Cable Nom. Diameter:** 0.360in (9.14 mm)
- **Return Loss:**
 - 21 dB @ 5 - 850 MHz
 - 15dB @ 850 - 3000 MHz
- **Attenuation:**
 - 0.30 dB/100ft @ 1MHz
 - 4.50 dB/100ft @ 270MHz
 - 10.10 dB/100ft @ 1000MHz
 - 21.40 dB/100ft @ 3000MHz
- **Nom. Conductor DCR:** 14.0 Ohm/1000ft
- **Nom. Inner Shield DCR:** 2.5 Ohm/1000ft (8.2 Ohm/km)
- **Nom. Outer Shield DCR:** 1.6 Ohm/1000ft (5.2 Ohm/km)
- **Nom. Capacitance Cond-to-Shield:** 17.0 pF/ft (55.8 pF/m)
- **Nom. Characteristic Impedance:** 75 Ohm
- **Nom. Velocity of Prop:** 77%
- **Voltage Rating:** 300V
- **Operating Temperature:** -58°F to 176°F (-50°C to +80°C)
- **Installation Min Bend Radius:** 3.6in (91 mm)
- **Max. Pull Tension:** 102lbs (46.3 kg)

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Specifications:

Canare Triaxial Connectors:

- **Nom. Impedance (Ohms):** 75
- **Bandwidth:** DC-1.5 GHz
- **VSWR:** ≤ 1.1
- **Return Loss:** $\geq 26\text{dB}$
- **Dielectric Material:** PTFE & POM
- **Insulation Resistance:** $\geq 5000\text{ M}\Omega$
- **Withstand Voltage:** 1500V AC 1 min.
- **Center Contact Resistance:** $\leq 10\text{m}\Omega$
- **Operating Temperature:** -40° to 185°F (-40°C to $+85^{\circ}\text{C}$)
- **Lifetime:** 1000 Mating Cycles