

## ST2110-6A-RJ DATASHEET

The Laird ST2110-6A-RJ is a professional-grade CAT6A cable assembly engineered for IP-based broadcast environments requiring SMPTE ST-2110 signal integrity. Terminated with industrial shielded RJ45 connectors, this cable delivers reliable performance for uncompressed video, audio, and data transport in mission-critical production workflows. When installed per TIA TSB-184 recommendations, the ST2110-6A-RJ is PoE-compliant and will meet CAT6a channel requirements up to 70 meters. Available as cable assemblies or on reels.

### Features:

- Meets SMPTE ST 2110 Standards
- Highly Flexible Industrial CAT6a Ethernet cable with High-Quality RJ45s
- PoE compliant and meets CAT6a channel requirements up to 70m when installed per TIA TSB-184 recommendations
- Weld Spatter and UV-resistant TPE Jacketing
- NEC (UL)/CEC (UL) TYPE CMX OUTDOOR approved Cable



ST2110-6A-RJ-xxx



LCRST21106ARJxxx

## ST2110-6A-RJ DATASHEET

### Specifications:

#### Laird ST2110-6A Cable:

- **Conductor AWG:** 26 AWG
- **Conductor Material:** 7/34 Stranded Tinned Copper
- **Conductor Material:** 0.019"
- **Insulation Material:** High-Density Polyethylene
- **Insulation Wall Thickness:** 0.009"
- **Insulation Diameter:** 0.036"
- **Pairs:** Color-Coded Singles Twisted into Pairs with Central Spline
- **Pairs Diameter:** 0.072"
- **Shield 1/Coverage %:** 38 AWG tinned copper braid (80%)
- **Shield 2/Coverage %:** Aluminized polyester foil shield (100% coverage)
- **Shield Braid Thickness:** 0.195"
- **Jacket Wall Thickness:** 0.040"
- **Jacket Material:** Thermoplastic elastomer (TPE)
- **Cable O.D.:** 0.275"
- **Temperature Range:** -40°F to 167°F (-40°C to +75°C)
- **Tensile Strength Retention:** 80%
- **Elongation Retention:** 100%
- **Capacitance Nom.:** 13.5 PF/FT. AT 1 MHz
- **Dielectric Withstanding:** 1500V RMS
- **Voltage Rating (Max):** 300V
- **D.C. Resistance (Max):** 42.6  $\Omega$ /1,000'
- **Nom. Impedance:**
  - 100  $\pm$  15  $\Omega$  1 - 100 MHz
  - 100  $\pm$  20  $\Omega$  100 - 500 MHz
- **Return Loss:**
  - 1  $\leq f <$  10 MHz
  - 10  $\leq f <$  20 MHz
  - 20  $\leq f \leq$  100 MHz
  - 100  $< f \leq$  500 MHz
- **Insertion Loss:** 1  $\leq f \leq$  500 MHz
- **Delay:** 4  $\leq f \leq$  500 MHz
- **Velocity of Propagation:** 68%

## ST2110-6A-RJ DATASHEET

### Specifications:

#### RJ-45 Connector:

- **Shielding:** Shielded
- **Shield Material:** Copper Alloy
- **Housing Material:** Polycarbonate (PC)
- **Contact Material:** Copper Alloy
- **Contact Finish:** Gold

#### JackReel F4 Reel (Only for Reel Variant):

- **Hub Diameter:** 6.5"
- **Outside Hub:** 12.5"
- **Foot Base Width:** 10.6"
- **Overall Height:** 14.3"