

ST2110-6A-PS DATASHEET

The Laird ST2110-6A-PS is a professional-grade Cat 6A Ethernet cable specifically engineered for broadcast and live production environments, featuring a rugged protective backshell on both RJ45 connectors. Designed to meet the demanding requirements of SMPTE ST 2110 IP video workflows, this cable delivers reliable performance in settings where standard networking cables fail. 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:

- A Durable Backshell Protects the RJ45 Locking Mechanism
- Meets SMPTE ST 2110 Standards
- Highly Flexible Industrial CAT6a Ethernet Cable with High-Quality Backshells Over Standard RJ45 Plugs
- 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-PS-xxx



LCRST21106APSxxx

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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 Splines
- **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 Ω /1,000'
- **Nom. Impedance:**
 - 100 \pm 15 Ω 1 - 100 MHz
 - 100 \pm 20 Ω 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%

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Specifications:

RJ-45 Connector:

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