

ST2110-6A DATASHEET

Laird's ST2110-6A ethernet cable series is a series of highly flexible shielded CAT6a cables that take advantage of Neutrik's NE8MXR-B-TOP retractable etherCON shell that allows for reliable IP-rated performance in harsh environments while also being easily adapted for use as a standard RJ45 plug. The ST2110-6A cable is POE compliant and meets CAT6a channel requirements up to 70m when installed according to TIA TSB-184 recommendations.

Features:

- Meets SMPTE ST 2110 Standards
- Highly Flexible Industrial CAT6a Ethernet cable with High-Quality Neutrik etherCON retractable shells over standard RJ45 plugs
- PoE compliant and meets CAT6a channel requirements up to 70m when installed per TIA TSB-184 recommendations
- Flame/Corrosion-resistant Connector
- Retractable etherCON carrier shell prevents breakage of fragile components of standard RJ45 connectors
- Weld Spatter and UV-resistant TPE Jacketing
- NEC (UL)/CEC (UL) TYPE CMX OUTDOOR approved



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Specifications:

Laird SMPTE ST 2110 Cable:

- **Conductor AWG:** 26 AWG
- **Conductor Material:** 7/34 Stranded Tinner Cooper
- **Conductor Diameter:** .019"
- **Insulation Material:** High-Density Polyethylene
- **Insulation Wall Thickness:** .009"
- **Insulation Diameter:** .036"
- **Pairs:** color-coded singles twisted into pairs with central spline
- **Pair's Diameter:** .072"
- **Shield 1/Coverage %:** 38 AWG tinned copper braid (80%)
- **Shield 2/Coverage %:** Aluminized polyester foil shield (100% coverage)
- **Shield Braid Thickness:** .195"
- **Jacket Wall Thickness:** .040"
- **Jacket Material:** Thermoplastic elastomer
- **Cable O.D.:** .275"
- **Temperature Range:** -40°F to 167°F (-40°C to 75°C)
- **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%

Neutrik etherCON Connector:

- **Insertion Force:** ≤ 30 N
- **Withdrawal Force:** ≤ 30 N
- **Mating Lifetime:** min. 1000 cycles
- **Retracting Lifetime:** min. 100 cycles
- **Boot Material:** Thermoplastic elastomer (TPE)
- **Protection Class:**
 - **Mated:** IP65
 - **Closed Sealing Cap:** IP65