

## TUFFCAT6A-EP DATASHEET

The Laird TUFFCAT6A-EP Cat6A cable with 10G tactical network cable terminates in etherCON RJ45 to ProShell RJ45 connectors with heavy duty protection for harsh conditions requiring repeated connections. The ruggedized CAT6A tactical cable is extra-flexible with a TPE jacket that withstands temperature extremes. The durable, locking connector system maintains mechanical and electrical integrity and exceeds 10-Gig performance standards. Laird TUFFCAT6A cables are designed for HDBase-T and UHD-4K video transmission in punishing environments such as live events and OB trucks.

### Features:

- Ruggedized Cable and Connectors Designed for Repeated Connections
- Extra-Flexible CAT6A Tactical Cable
- RJ45 Strain Relief
- Ergonomic Design for Easy Handling
- Integral Latch Protection and Optimal Protective Caps
- Intermateable with Existing etherCON CAT5
- Cable is suitable for use in Class I Division II Hazardous Locations
- UL Approved for Sunlight Resistant & Direct Burial

**NOTE:** Does not intermate with the CAT6 chassis connectors NE8FDY-C6 and NE8FDY-C6-B



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### Specifications:

#### Tactical Category 6a Data Cable:

- **Pairs:** 4 Twisted Pair
- **AWG:** 24AWG
- **Stranding:** 7/32 Stranded Tinned Copper
- **Jacketing material:** TPE
- **Jacketing wall thickness:** .039"
- **Jacketing diameter:** .325" +/- .010"
- **Shield:** 75% TC Braid, 100% Foil
- **Impedance:** 100  $\Omega$ / (+/- 15) 1 - 100MHz, 100 $\Omega$ / (+/- 25) 251 - 500MHz
- **Capacitance:** 13.5 PF/FT@1MHz
- **DC Resistance:** 14.0  $\Omega$
- **Insulation:** HDPE
- **Insulation wall thickness:** .011"
- **Delay skew:** <25ns
- **Max Voltage Rating:** 300V TIA-568-C.2 Category 6 AND 6a

#### Platinum Tools 10Gig RJ45 Shielded Connectors:

- **Contacts:** 50 $\mu$  gold contacts

#### Neutrik NE8MX6-B etherCON RJ45 Connector Carrier:

- **Lifetime:** >1000 Mating Cycles
- **Power over Ethernet:** PoE++acc. IEEE 802.3bt
- **Insulation resistance:** >0.5 G $\Omega$