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## 14 AWG 12 Conductor Unshielded 600V Control Tray Cable Specification

Lake Cable Part #: VXT1412-MNDOTA

**Description:** 14 AWG, 12 conductor unshielded 600V control tray cable constructed with stranded bare copper, cross-linked polyethylene insulation, an insulated ground conductor and an polyvinylchloride jacket. Individual conductors are manufactured in accordance with UL Standard 44, Type XHHW-2/VW-1. Cable is manufactured in the USA in accordance with UL Standard 1277 and NEC listed Type TC, suitable for use in Class I Division II hazardous locations and approved for installation in cable trays per Article 336 of the National Electric Code. Cable may be installed in open air, in ducts or conduits, in trays or troughs and is approved for direct burial and outdoor applications. Jacket is sunlight and oil I resistant and cable is (UL) TC-ER approved for 600V, 90°C Wet or Dry, and meets or exceeds the requirements of UL 1581 and 1202 (FT-4) 70,000 BTU/HR and ICEA T-29-520 210,000 BTU/HR flame tests.

### 1. Conductor

- 1.1 AWG Size & Stranding: 14 AWG, Class B 7 Strands
- 1.2 Material: Annealed Bare Copper

### 2. Insulation

- 2.1 Material: FR-XLPE per UL Standard 44, Type XHHW-2/VW-1
- 2.2 Wall Thickness: 0.030" - The minimum at any point shall not be less than 90% of the specified wall thickness

### 3. Color Code

- 3.1 Code: Black, White, Red, Black/Red Stripe, Orange, Blue, White/Black Stripe, Red/Black Stripe, White/Red Stripe, Orange/Black Stripe, Blue/Black Stripe, Black/White Stripe

### 4. Assembly

- 4.1 Lay Length: 5.0" - LHL  $\pm$  0.50" Per UL Standard 1277
- 4.2 Fillers: Non-Hygroscopic Polypropylene - As required for a circular cross-section
- 4.3 Binder: Clear Mylar Tape
- 4.4 Shield: N/A
- 4.5 Drain Wire: N/A

### 5. Jacket

- 5.1 Material: Polyvinylchloride per UL Standard 1277
- 5.2 Wall Thickness: 0.060" - The minimum at any point shall not be less than 80% of the specified wall thickness
- 5.3 Diameter: 0.676"
- 5.4 Color: Black
- 5.5 Weight: 313 lbs./Mft.

### 6. Markings

- 6.1 Type: Cable shall be permanently identified via surface inkjet print
- 6.2 Legend: LAKE CABLE E208309 14AWG 12C (UL) TC-ER 600V XHHW-2/VW-1 90°C DRY/WET  
PVC JACKET SUN RES DIR BUR OIL RES I "-40°C COLD BEND" FT-4 (YEAR OF MFG) TRAFFIC  
SIGNAL CABLE "ROHS"
- 6.3 Footage Markers: Yes

### 7. Standards

- 7.1 UL listed as Type TC-ER per UL Standard 1277 for tray cables
- 7.2 UL approved for Direct Burial, Sunlight and Oil I Resistant applications
- 7.3 Individual conductors pass UL VW-1 flame test, rated XHHW-2/VW-1
- 7.4 Cable meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements
- 7.5 Meets ICEA S-95-658 & ICEA S-73-532
- 7.6 All materials used in the manufacture of this cable are RoHS compliant

**ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION**