



# Specification Sheet

## Lake Cable Part #: VX182ST/18DR

**Description:** 18 AWG 2 conductor 7 strand tinned copper with XLPE insulation, an aluminum/mylar shield with a stranded tinned copper drain wire and an overall PVC jacket 600V control tray cable, approved for use in SUN RES DIR BUR 90° C applications.

### 1. Conductor

- 1.1. AWG Size & Stranding: 18 AWG 7 Strands Class B
- 1.2. Material: Annealed Tinned Copper
- 1.3. Conductor Count: 2 Conductors

### 2. Insulation

- 2.1. Material: Cross-linked Polyethylene
- 2.2. Wall Thickness: 0.030"
- 2.3. Color Code: Method 1, Table E-2

### 3. Assembly

- 3.1. Lay Length: 3.00" LHL
- 3.2. Fillers: N/A
- 3.3. Binder: N/A
- 3.4. Shield: Aluminum/Mylar Tape - 100% coverage
- 3.5. Drain Wire: 18 AWG 7 Strand Tinned Copper

### 4. Jacket

- 4.1. Material: Polyvinylchloride
- 4.2. Wall Thickness: 0.045"
- 4.3. Diameter: 0.304" ± 0.025"
- 4.4. Color: Black
- 4.5. Ripcord: Yes
- 4.6. Cold Bend Rating: -40° C
- 4.7. Weight: 52 lbs./Mft.

### 5. Markings

- 5.1. Type: Cable shall be permanently identified via surface inkjet print
- 5.2. Legend: LAKE CABLE E208309 18AWG 2C SHIELDED (UL) TC-ER XLPE 600V 90C DRY/WET PVC JACKET SUN RES DIR BUR FT4 "ROHS COMPLIANT" MADE IN USA
- 5.3. Footage Markers: Yes

### 6. Electrical Characteristics

- 6.1. Capacitance: 19.28 pF/ft.
- 6.2. Impedance: 83.30 Ω
- 6.3. Max DC Resistance: 7.06 Ω/Mft. @ 20° C

### 7. Standards

- 7.1. Refer to NEC (NFPA 70) article 336 for installation guidelines
- 7.2. Cable is suitable for use in Class I Division 2 hazardous locations
- 7.3. UL listed as Type TC-ER per UL Standard 1277 for tray cables
- 7.4. UL approved for Direct Burial and Sunlight Resistant applications
- 7.5. Cable meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements
- 7.6. Meets ICEA S-73-532, where applicable
- 7.7. Cable meets RoHS 2002/95/EC Directive, RoHS 2 2011/65/EU Directive, RoHS 3 2015/863/EU Directive
- 7.8. Cable is REACH compliant per Regulation (EC) No 1907/2006 (233) Updated January 17, 2023
- 7.9. Made in the USA
- 7.10. ⚠️ WARNING: This product may contain chemicals, such as Vinyl Chloride, known to the state of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). Wash hands after handling

Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order; this item may be non-cancelable and non-returnable.

*Carl Blomquist, Eng.*  
*Marcus Boerger, Eng.*  
 Signature

*GSI ELECTRONIC INC.*  
 Company

*06-07-2023*  
 Date

**ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. LAKE CABLE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO LAKE CABLE AT THE TIME OF DESIGN.**