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18 AWG 10 Conductor Shielded 600V Control Tray Cable Specification

Lake Cable Part #: V1810ST/X

Description: 18 AWG, 10 conductor shielded 600V control tray cable constructed with stranded tinned copper, polyvinylchloride and nylon insulation, an aluminum/mylar shield with a stranded tinned copper drain wire and an overall polyvinylchloride jacket. 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 Dry/Wet, 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: 18 AWG, Class B 7 Strands
- 1.2 Material: Annealed Tinned Copper

2. Insulation

- 2.1 Material: Polyvinylchloride & Nylon
- 2.2 Wall Thickness: 0.015" PVC & 0.005" Nylon - 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, Green, Brown, Blue, Orange, Yellow, Violet, Gray

4. Assembly

- 4.1 Lay Length: Per UL Standard 1277
- 4.2 Fillers: N/A
- 4.3 Binder: N/A
- 4.4 Shield: Aluminum/Mylar Tape - 100% coverage
- 4.5 Drain Wire: 20 AWG, 7 Strand Tinned Copper

5. Jacket

- 5.1 Material: Polyvinylchloride per UL Standard 1277
- 5.2 Wall Thickness: 0.045" - The minimum at any point shall not be less than 80% of the specified wall thickness
- 5.3 Diameter: 0.438"
- 5.4 Color: Black
- 5.5 Weight: 120 lbs./Mft.
- 5.6 Ripcord: Yes

6. Markings

- 6.1 Type: Cable shall be permanently identified via surface inkjet print
- 6.2 Legend: LAKE CABLE E208309 18AWG 10C SHIELDED (UL) TC-ER PVC/NYLON 600V 90°C DRY/WET PVC JACKET SUN RES DIR BUR OIL RES I FT4 "ROHS"
- 6.3 Sequential 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 Cable meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements
- 7.4 Meets ICEA S-73-532, where applicable
- 7.5 Cold Bend Rating: -40°C
- 7.6 All materials used in the manufacture of this cable are RoHS compliant

ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION

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Information on this specification is subject to change without notice.

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