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16 AWG 3 Pairs SPOS 600V Instrumentation Tray Cable Specification

Lake Cable Part #: VXC163SPOST

Description: 16 AWG 3 pairs, individually and overall shielded, 600V instrumentation tray cable constructed with stranded tinned copper, cross-linked polyethylene insulation, aluminum/mylar shields with stranded tinned copper drain wires and an overall chlorinated polyethylene jacket. Individual conductors are manufactured in accordance with UL Standard 66, Type XLPE/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 & II 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 IEEE 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: 16 AWG, Class B 7 Strands
- 1.2 Material: Annealed Tinned Copper

2. Insulation

- 2.1 Material: FR-XLPE per UL Standard 66, Type XLPE/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 numbered pairs

4. Assembly

- 4.1 Pair/Cable Lay Length: Per UL Standard 1277
- 4.2 Pair Shield: Foil Free Edged Aluminum/Mylar Tape - 100% coverage
- 4.3 Pair Drain Wire: 18 AWG, 7 Strand Tinned Copper
- 4.4 Pair/Cable Binder: N/A
- 4.5 Cable Shield: Aluminum/Mylar Tape - 100% coverage
- 4.6 Cable Drain Wire: 16 AWG, 7 Strand Tinned Copper
- 4.7 Fillers: N/A

5. Jacket

- 5.1 Material: Chlorinated Polyethylene 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: 0.543"
- 5.4 Color: Black
- 5.5 Weight: 179 lbs./Mft.

6. Markings

- 6.1 Type: Cable shall be permanently identified via surface inkjet print
- 6.2 Legend: LAKE CABLE E208309 16AWG 3PR SPOS (UL) TC-ER XLPE/VW-1 600V 90°C DRY/WET
CPE JACKET SUN RES DIR BUR OIL RES I & II FT4 "ROHS"

7. Standards

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

ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION