



# Specification Sheet

## Lake Cable Part #: CNB181PRS16ROD/TPR-IEWC

**Description:** 18 AWG 16 Strands Bare Copper 1 pair 120 Ω NOM SAE J1939/11 Foamed XLPE insulation, an aluminum/mylar shield with a stranded bare copper drain wire and an overall TPR jacket 125°C rated.

**1. Conductor**

- 1.1. AWG Size & Stranding: 18 AWG 16 Strands Class K
- 1.2. Material: Annealed Bare Copper
- 1.3. Conductor Count: 1 Pair

**2. Insulation**

- 2.1. Material: Foamed Cross Linked Polyethylene
- 2.2. Wall Thickness: 0.045"
- 2.3. Color code: Yellow x Green
- 2.4. Insulated Diameter: 0.136" ± 0.002"

**3. Electrical Characteristics**

- 3.1. Impedance: 120 Ω ± 10%
- 3.2. Capacitance: 11.5 pF/ft
- 3.3. DC Resistance: 6.4 Ω/Mft @ 20°C
- 3.4. Operating Voltage: 300V RMS

**4. Assembly**

- 4.1. Cable Lay Length: 3.50" LHL (3.43 tw/ft)
- 4.2. Fillers: Two Polyethylene Rod
- 4.3. Drain: 20 AWG 19 Strands Bare Copper
- 4.4. Shield: Aluminum/Mylar Shield - 100% Coverage (Aluminum Facing Inside)

**5. Jacket**

- 5.1. Material: Pressure Extruded Thermoplastic Rubber / 125°C, Oil & UV Resistant
- 5.2. Convolution Level: 3 or Better
- 5.3. Wall thickness: 0.040"
- 5.4. Diameter: 0.354" ± 0.020"
- 5.5. Color: Black
- 5.6. Ripcord: No
- 5.7. Weight: 51 Lbs/Mft

**6. Markings**

- 6.1. Type: Cable permanently identified via surface print wheel in White ink
- 6.2. Legend: LAKE CABLE CNB181PRS16ROD/TPR-IEWC 18AWG 1PR SHIELDED 125°C CANBUS SAE J1939-11 SUNLIGHT/OIL RESISTANT "ROHS II" MADE IN USA
- 6.3. Footage Markers: N/A

**7. Standards**

- 7.1. Cable is Abrasion and Cut Resistance
- 7.2. Cable meets SAE J1939/11 electrical characteristics and SAE J1128 for fluid and flame characteristics
- 7.3. Cable is suitable for Direct Burial, Sunlight applications
- 7.4. Cable meets RoHS 2002/95/EC Directive, RoHS 2 2011/65/EU Directive, RoHS 3 2015/863/EU Directive
- 7.5. Cable is REACH compliant per Regulation (EC) No 1907/2006 (224) Updated June 10, 2022
- 7.6. Made in the USA

**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.**

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.

---

Signature

---

Company

---

Date