



# Specification Sheet

## Lake Cable Part #: CNB181PR186TXL/TPE

**Description:** Two element composite cable with and an overall TPE jacket for 105°C rated applications.

- 18 AWG 1PR 19STR BC Unshielded CanBus SAE J1939/15
- 18 AWG 6C 19STR BC Unshielded SAE J1128 TXL

### Element 1: 18 AWG 1PR 19STR BC Unshielded CanBus SAE J1939/15

- 1. Conductor**
  - 1.1. AWG Size & Stranding: 18 AWG 19 Strands Class C
  - 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: 0.019"
  - 2.3. Color code: Yellow x Green
  - 2.4. Insulated Diameter: 0.085" ± 0.002"
- 3. Pair Assembly**
  - 3.1. Lay Length: To be cabled on common axis with Element 2
  - 3.2. Binder: Clear Mylar Tape - 100% Coverage
- 4. Electrical Characteristics**
  - 4.1. Impedance: 120 Ω ± 15%
  - 4.2. Capacitance: 11.5 pF/ft
  - 4.3. DC Resistance: 6.4 Ω/Mft @ 20 °C

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.

**Jerry Kiser REV 1**

Signature

**IWC p/n 32119119**

Company

**1/25/21**

Date

### Element 2: 18 AWG 6C 19STR BC Unshielded SAE J1128 TXL

- 5. Conductor**
  - 5.1. AWG Size & Stranding: 18 AWG 19 Strands Class C
  - 5.2. Material: Annealed Bare Copper
  - 5.3. Conductor Count: 6 Conductors
- 6. Insulation**
  - 6.1. Material: Cross Linked Polyethylene
  - 6.2. Wall Thickness: 0.016"
  - 6.3. Color code: Red, Black, White, Blue, Brown, Orange
- 7. Overall Assembly**
  - 7.1. Lay Length: 3.50" LHL (3.43 tw/ft), Nominal
  - 7.2. Filler: Fibrillated Polypropylene - as Necessary for a Circular Cross-Section
  - 7.3. Binder: Clear Mylar Tape Wrap - 100% Coverage

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## Lake Cable Part #: CNB181PR186TXL/TPE

### 8. Jacket

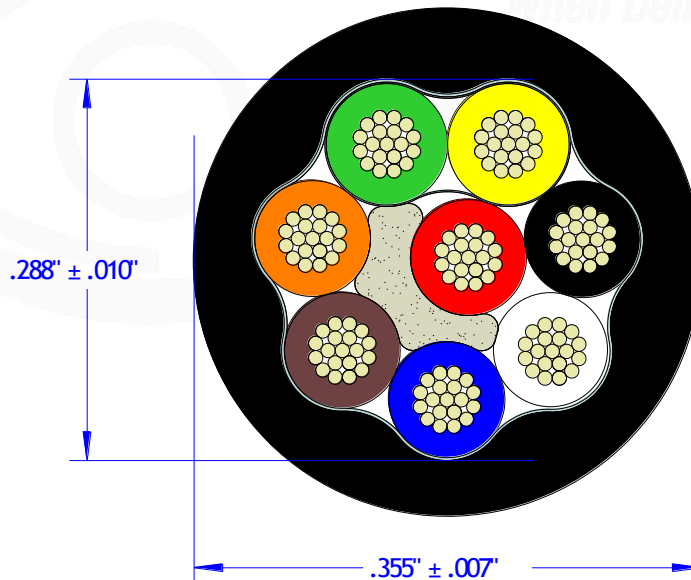
- 8.1. Material: Pressure Thermoplastic Elastomer / 105°C, Oil & UV Resistant
- 8.2. Convolution Level: 3 or Better
- 8.3. Wall thickness: 0.034"
- 8.4. Diameter: 0.355" ± 0.007"
- 8.5. Color: Black
- 8.6. Ripcord: N/A
- 8.7. Weight: 92 Lbs/Mft
- 8.8. Operating Voltage: 600V RMS
- 8.9. Operating Temp: -40°C (Cold Bend) to 105°C

### 9. Markings

- 9.1. Type: Cable permanently identified via surface inkjet print
- 9.2. Legend: 105C 18AWG 1PR CANBUS SAE 1939-15 + 18AWG 6C
- 9.3. Footage Markers: N/A

### 10. Standards

- 10.1. Cable meets SAE J1939/15 electrical characteristics and SAE J1128 for fluid and flame characteristics
- 10.2. Cable is suitable for OIL and Sunlight resistant applications
- 10.3. Cable meets RoHS 2002/95/EC Directive, RoHS 2 2011/65/EU Directive, RoHS 3 2015/863/EU Directive
- 10.4. Cable is REACH compliant per Regulation (EC) No 1907/2006 Updated January 15, 2019
- 10.5. Made in the USA
- 10.6. ⚠️ **WARNING:** This product may contain chemicals, such as Vinyl Chloride, known to the state of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). Wash hands after handling



**ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION**