

**48 FIBER OPTIC CABLE SPECIFICATION (ADSS)**  
**Spec #48F-2018-01**

**CABLE REQUIREMENTS:**

- ADSS (all dielectric self supporting)
- Double Polyethylene Jacket Construction (each jacket will include ripcord)
- UV rated outer jacket
- Maximum span length: 500'
- Nominal installation sag: 1.0 %
- Nominal cable diameter: 0.559 in.
- Tensile strength: The cable provided shall be designed such that the fibers do not experience any degrading during a sustained maximum wind load of 100 mph.
- Meets NESC Heavy rating
- Meets IEEE 1222 standards
- Dry blocking water technology
- Loose tube design
- Standard color coding of buffer tubes and fibers
- Single mode fiber: Corning SMF28 Ultra (or most current version of SMF-28)
- Fiber attenuation: 1310nm/1550nm 0.32/0.18 db/km
- 48 fibers, 6 fibers per buffer tube (8 buffer tubes)

**CABLE STAMPING:**

- Sequential numbers noted in "feet"
- Cable owner noted as "City of Lakeland"

**CABLE MANUFACTURERS:**

- Each bidder proposal shall furnish City of Lakeland documentation showing compliance to all the specifications listed above on a similar cable type.
- The successful bidder shall have at least 10 continuous years of experience manufacturing and engineering ADSS cable systems and must be ISO 9001 registered.
- City of Lakeland recommends AFL design spec DNA-26874-02.  
(AE048AZ6811BA5)

**CABLE LENGTH & REEL SIZE:**

- Cable cut lengths: 16,000' reels +/- 5% (unless otherwise noted)
- Each cable reel will include a cable make-up and test data sheet
- Cable reels: non-returnable wood reel with 1 ¼ inch drive hole, minimum 3" in. metal hub. Use this spec unless otherwise approved by the City of Lakeland
- Cable shipped via flat bed trailer to Central Stores Warehouse (unless otherwise noted)

Central Stores Warehouse: Stock # 16-98-248