



## Build Specifications for Outdoor Aerial Singlemode Pre-Terminated Fiber Optic Assemblies - Custom Made in USA by QuickTreX®

- All multi-strand fiber assemblies will be constructed using a breakout made with 2mil color coded buffer tubing for each leg. The buffer tubes will be securely fastened to the outer jacket using high strength adhesive type heat shrink tubing.
- The standard breakouts will be 14" for 2 and 4 strand. 18" for 6 strand, 24" for 12 strand and 36" for 24 strand.
- The connectors will be staggered to minimize the size of the pulling basket which will be ¾".
- No duplex clips will be used to pair the connectors unless otherwise specified. For connectors that come with duplex clips, we will provide those clips to the customer in a plastic bag that will be attached to the assembly.
- Heat shrink tubing will be used at:
  - 1) The transition from the buffer tubes to the cable jacket.
  - 2) Where the basket meets with the turn buckle (pulley hook)
  - 3) Where the basket ends and connects with the cables jacket.
- One wrap around label is to be attached to each end of the cable assembly for identification. The label text includes the cable part#, and a unique serialized number.
- Pull Eyes (pulling baskets) (if so equipped) are made from Super strong polyethylene mesh and feature a free-spinning buckle to eliminate twisting of the cable during the pull.

### TESTING

All fiber ends are visually inspected with a fiberscope of 400 power or better for surface defects including, cracking, pitting, and scratches, on the glass surface of the connector. All ends are tested utilizing a Loss Test Set to the following standards:

SM: IL – Max 0.2dB Min - .01dB - ORL (optical return loss) - 55dB

Note on "Loss Over Distance": Singlemode Fiber has a typical loss per Kilometer of 1.0 dB at 1310 MN, 1.0 dB at 1383 MN, 0.75 dB at 1550 MN.

\* All test results will be included on the QuickTreX sticker found on the reel of the assembly.

### Outdoor Aerial Fiber Specs:

	Dielectric
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C
Installation Temperature (cable temp.)	-30°C to +60°C
Crush Resistance	1,800 N/cm
Impact Resistance	1,500 impacts

### Features:

- Polyethylene outer jacket for excellent UV and weather resistance
- ¼ inch galvanized messenger
- Figure 8 construction for use with standard messenger clamping and supporting hardware
- Designed to the NESC requirements for light, medium and heavy storm loads
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\*these specifications are an example of the specifications of the fiber that will be used in the construction of a pre-terminated assembly. Due to cable availability, specs may vary slightly. If you are ready to place an order, and need to confirm exact specs, please email [sales@lanshack.com](mailto:sales@lanshack.com).