



## Build Specifications for Outdoor (OSP) Gel-Filled Pre-Terminated Fiber Optic Assemblies - Custom Made in USA by QuickTreX®

- All Pre-Terminated Assemblies will be custom made at the time of your order, built to your specifications.
- 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:
  - The transition from the buffer tubes to the cable jacket.
  - Where the basket meets with the turn buckle (pulley hook)
  - 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:

**Multimode:** 62.5/125 and 50/125: IL Max 0.2db, Min -.01db..\* All test results will be included on the QuickTreX sticker found on the reel of the assembly.

**Singlemode:** 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.

## Optical Specifications

TIA/EIA-568-C.3

Fiber type	Max. Attenuation		Min OFL Bandwidth		Min EMBc Bandwidth		Gb Ethernet distance		10 Gb Ethernet distance	
	(dB/km)		(MHz-km)		(MHz-km)		(m)		(m)	
	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)	850nm (MM) or 1310nm (SM)	1300nm (MM) or 1550nm (SM)
OM1	3.25	1.0	200	500	220	N/A	300	550	33	N/A
OM2	3.25	1.0	700	500	950	N/A	750	550	150	N/A
OM3	3	1.0	1500	500	2000	N/A	1000	550	300	N/A
OM4	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
OS2	0.4	0.3	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40000

### Features:

- UV resistant jacket
- Gel filled which provides protections against water penetration
- Dry absorbent polymers eliminate water migration in cable interstices.
- Durable jacket offers added protection during installation and in rugged use applications

### Bend radius

- No load = 10x cable overall diameter
- Load = 20x cable overall diameter

\*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).