

**Build Specifications for Indoor/Outdoor Singlemode Pre-Terminated Fiber Optic Assemblies -
 Custom Made in USA by QureTrexX®**

- All Singlemode Pre-Terminated Assemblies will be custom made at the time of your order, built with Corning® fiber 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, 48, 72, 96, and 144 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 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.

Indoor/ Outdoor Fiber Specs:

Optical Characteristics						
Items	Single Mode	OM1	OM2	OM3	OM4 (OM4+)	OM5 WB MMF
Core Size (µm)	9	62.5	50	50	50	50
Wavelength [nm]	1,310/1,550	850/1,300	850/1,300	850/1,300	850/1,300	850/1,300
Max. Attenuation [dB/km]	0.5/0.4	3.5/1.5	3.5/1.5	3.0/1.0	3.0/1.0	3.0/1.0
Link Length [m]	10,000/5,000 (1/10 Gb/s@1550nm)	300 (1Gb/s@850nm)	150 (10Gb/s@850nm)	300 (10Gb/s@850nm)	550(600) (10Gb/s@850nm)	550 (10Gb/s@850nm)
Bandwidth (EMB High Performance) [MHZ.km]		220 @850	750 @850	2,000 @850	4,700 @850	4,700 @850

Cable Characteristics	
Fiber Count	2-12, 24, 36, 48, 72
Outer Jacket Material	Flame Retardant PVC
Buffer Tubes	Flame Retardant PVC
Strength Member	Aramid Yarn
Central Strength Member(N/A 2-12Fiber)	Fiber Reinforced Rod
Coating on Central Strength Member	Flame Retardant PVC

Physical Characteristics	Value (2-12 / 24 / 36 / 48 / 72 fiber count)
Nominal Outer Diameter (mm)	4.8/ 8.5/ 8.5/ 8.5/ 10.4
Weight (lbs/ km)	64/ 150/ 153/ 156/ 225
Minimum Bend Radius, Installation (cm)	7.2/ 12.8/ 12.8/ 12.8/ 15.6
Minimum Bend Radius, Operation (cm)	4.8/ 8.5/ 8.5/ 8.5/ 10.4

Temperature Range	Indoor
Storage Temperature	-40 C to +70 C
Operating Temperature	-40 C to +70 C

Features:

- Gel-Free Waterblocked Design
- UV Protected Rugged Jacket offers added protection during installation and in rugged use applications
- Exclusive use of Corning® optical fibers
- Water-swellable Yarn

*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.