

# Trunks & Jumpers

## Jumpers

Reliable, flexible connectivity options. Available in any length with any connection option.



## Multi Fiber

Multi-fiber assemblies are available in 50/125, 62.5/125 and 9/125 singlemode configurations for ST, SC, LC, MT-RJ, MU and FC connectors. 10 Gbps 50/125 and MTP/MPO solutions are included in our custom assemblies. Available in round cable from 2 to 144 fibers in one jacket.



## Trunks

Use where high point density is necessary for one to many connections. External / Ruggedized Harnesses, MTP/MPO, ST, SC, ESCON, MT-RJ, LC, or MU connectors.



Cable choices include indoor, outdoor, dual-use indoor/outdoor, armored cable in conduit as well as traditional riser, plenum and low smoke/zero halogen solutions.

Our reputation in the industry for high quality custom assemblies ensures that our customers receive the finest products available. Our Sales Staff, Engineering Department and Production Team work hand in hand to provide a full range of cable assembly needs, whether for customer defined specification or best commercial practices.



Today's communications networks generally use two types of optical fibers, Singlemode and Multimode fiber.

To accommodate a wide variety of environments, these optical fibers are encased in a variety of protective sheaths. However, basic cable construction can be categorized into two solutions, loose tube and tight buffered construction.

Today's fiber jumpers are made with the Tight Buffered construction. Core size in the Singlemode is available at 8.3 $\mu$ m and the Multimode core is available in three sizes; 50 $\mu$ m, 62.5 $\mu$ m and a 10 gig 50 $\mu$ m.

Basic Coatings - as fiber is manufactured, a base coat of ultraviolet acrylate is applied which provides a moisture and mechanical protective layer. The standard diameter at this point is 125 $\mu$ m. From this basic configuration, additional coatings are applied as per the cable specification.

Fiber jumpers provide the full circle connectivity between patch panels at the central network point of administration, or between patch panels and production hardware.

Patch cords are available in any length and many different connector styles and polishes, all designed to provide reliable, flexible connectivity solutions.

Tight Buffered fiber consists of single strands of fiber buffered with an additional layer of protective coating and placed directly into the construction of the cable.

For most manufacturers the working diameter for this outer coating is 900 $\mu$ m. Wrapped with Kevlar for added protection, the fibers are then coated with a variety of sheaths available from a 1.6mm up to a 3.0mm. The tight buffer constructed cable is the cable of choice for interior and some indoor/ outdoor installations. The 900 $\mu$ m buffered coating allows for the direct connectorization of the fiber.