Mode Conditioning Cables

Applications

–Equipment Interconnection
–High Speed Data Transfer
–Telecom Network
–Gigabit Ethernet

Features

–PC, UPC and APC connector polish types
–Multiple fiber options
–Ruggedized cable/connector
–Available with FC, SC, ST, LC and MU termini
–Jacketing options

Benefits

–On-site, precision manufacturing
–Guaranteed customer satisfaction
–Interferometer testing
–Limitless customization

Performance

Fiber Type	SM (9/125) and MM (50/125 or 62.5/125)
Insertion Loss (Typical)	
Transmit	0.35 dB
Receive	0.15 dB
Back Reflection (Typical)	≤-55 dB
Mating Durability (500 Cycles)	<0.2 dB
Temperature Range	-40°c to 85°c

Construction

	Buffer	Strength Member	Jacket
3mm Riser	900um	Kevlar	PVC
Length Tolerance		<1m: +5cm / -0cm 1m - 10m: +10cm / -0cm >10m: +2% / -0%	

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Overview

Mode conditioning cables for singlemode and multimode interconnects.

Timbercon mode conditioning cables are designed to be used with Gigabit Ethernet and other applications where both singlemode and multimode interconnects must be maintained.

Timbercon manufactures mode conditioning cables using premium quality fiber and connectors. These cable assemblies are primarily used in Gigabit Ethernet (1000Base-LX applications to prevent DMD (Differential Mode Delay).

Note: IEEE Std 802.3z. mode conditioning cables must pass a multitude of tests to verify compliance prior to leaving the Timbercon production facility.

Equipment side vs. plant side
Mode conditioning cables utilize both singlemode and multimode fiber enabling a singlemode signal to be correctly sent through a multimode network. For these applications, the singlemode end of a mode conditioning cable should always be connected to the equipment side, while the multimode end should be connected to the plant side.

About Timbercon

Timbercon, Inc., founded in 1997, is a fiber optic product and solution manufacturing company providing a variety of connectivity solutions to the defense, aerospace, medical, data storage, telecommunications, industrial, broadcast and networking industries. In addition to standard fiber optic assemblies and attenuated loopbacks, Timbercon has pioneered many proprietary products. Additional company information can be found at www.timbercon.com.