

Mode Conditioning Cables

timbercon

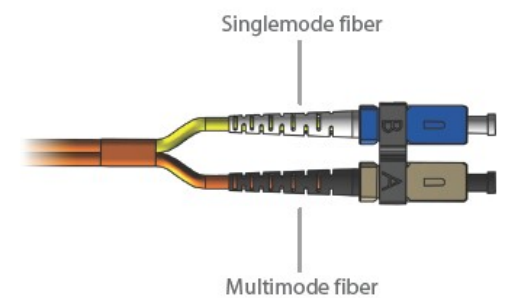
Mode Conditioning Cables for singlemode and multimode interconnects

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.

PREMIUM SOLUTIONS



FEATURES

- PC, UPC and APC connector polish types
- Multiple fiber options
- Cable/connector ruggedization
- Available with FC, SC, ST, LC, and MU termini
- Jacketing options

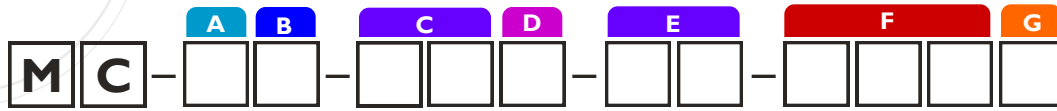
BENEFITS

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

APPLICATIONS

- Equipment interconnection
- High speed data transfer
- Telecom network
- Gigabit Ethernet

Mode Conditioning Cables



PART NUMBER GENERATOR

A - Fiber Type

- 5 MM 50um
- 6 MM 62.5um
- 7 OM3 MM 50um
- 0 Custom

B - Construction

- 3 3.0 mm
- 9 900um
- 0 Custom

C/E - Connector

- 03 FC
- 04 FC APC (N)
- 07 LC
- 08 LC APC
- 19 MU
- 21 SC
- 22 SC APC
- 25 SMA 905
- 26 SMA 906
- 27 ST
- 30 E2000
- 99 Custom

D - End Polish

- 1 MM PC
- 3 SM UPC
- 4 SM APC

F - Cable Length

Enter each lead length in whole numbers. Use block (G) to specify unit of measure.

EXAMPLE:

10 Meter Cable =
 (F) 010
 (G) M

G - Unit of Measure

- N Inches
- F Feet
- C Centimeters
- M Meters
- K Kilometers

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

TIP

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.

CONSTRUCTION

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

ABOUT

Founded in 1997, Timbercon, Inc. is a fiber optic product and solution manufacturing company providing a vast array of connectivity solutions to the data storage, telecommunications, military, industrial, broadcast and networking industries. In addition to standard fiber optic patch cords and attenuated test cables, Timbercon has pioneered proprietary products, many of which are now considered to be an industry benchmark.

