

Applications

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

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

Learn **MORE** Online:
www.timbercon.com

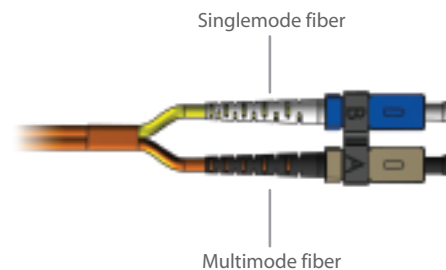



Mode Conditioning Cables for singlemode and multimode interconnects

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.



Performance Specifications

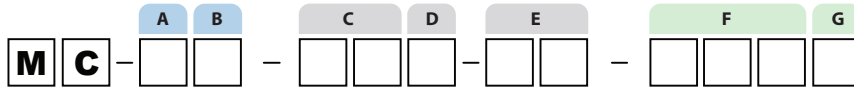
Fiber Type	SM (9/125) and MM (50/125 or 62.5/125)	
Insertion Loss (typical)	Transmit	0.35dB
	Receive	0.15dB
Back Reflection (Typical)	≤-55dB	
Mating durability (500 Cycles)	<0.2dB	
Temperature Range	-40°C to 85°C	

Construction Specifications

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

Mode Conditioning Cables

Part Number Generator



A - Fiber Type

- 5 MM 50µm
- 6 MM 62.5µm
- 0 Custom

B - Construction Type

- 3 3.0mm
- 9 900um
- 99 Custom

C - Connector 1

- 03 FC
- 07 LC
- 19 MU
- 21 SC
- 27 ST
- 99 Custom

F - Cable Length

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

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

D - End Polish 1

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

G - Unit of Measure

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

E - Connector 2

- 03 FC
- 07 LC
- 19 MU
- 21 SC
- 27 ST
- 99 Custom

Part Number Example: MC-53-071-21-005M

This represents:
MODE CONDITIONING CABLE ASSEMBLY -
MULTI MODE 50/125µm, 3.0MM DUPLEX
RISER JACKET, LC/PC TO SC. LENGTH:
5 METERS

About Timbercon

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.



SC



FC



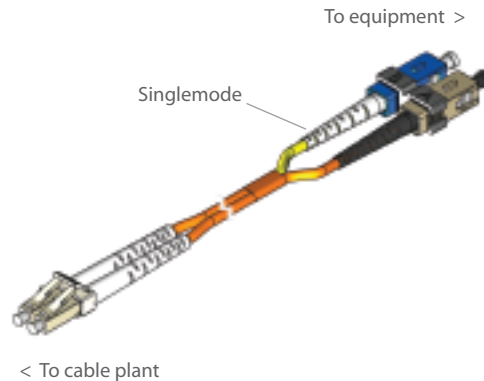
MU



ST



LC



TIP: Equipment side vs. plant side

Mode conditioning cables utilize both single-mode and multimode fiber enabling a single-mode signal to be correctly send 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.