Low Bend Loss Multimode Fiber Jumpers

(patents pending)

Product Description

Agiltron offers low bend loss fiber jumpers that feature a small bendable radius and allow copper wire-like line layout. Agiltron's patent pending low bend loss multimode fiber is designed to confine the signals within the fiber core when it experiences tight bending, achieving over 100 times lower bend loss or 5 times smaller bendable radius than standard multimode fibers. Assemblies are available with simplex or duplex, ST, SC, FC, FDDI, MT-RJ jumpers, or ribbon cables in standard lengths of 1,3 and 5 meters or custom lengths. Each and every terminated connector is optically tested so that you can be assured that 100% of the cable assemblies meet the stringent performance limits and all jumpers are manufactured using the finest quality connectors and Agiltron's low bend loss multimode fiber. .

Features

- Low bend loss
- Ultra-high reliability
- Low splice loss
- Gigabit network capacity

Applications

- Local area network (LAN)
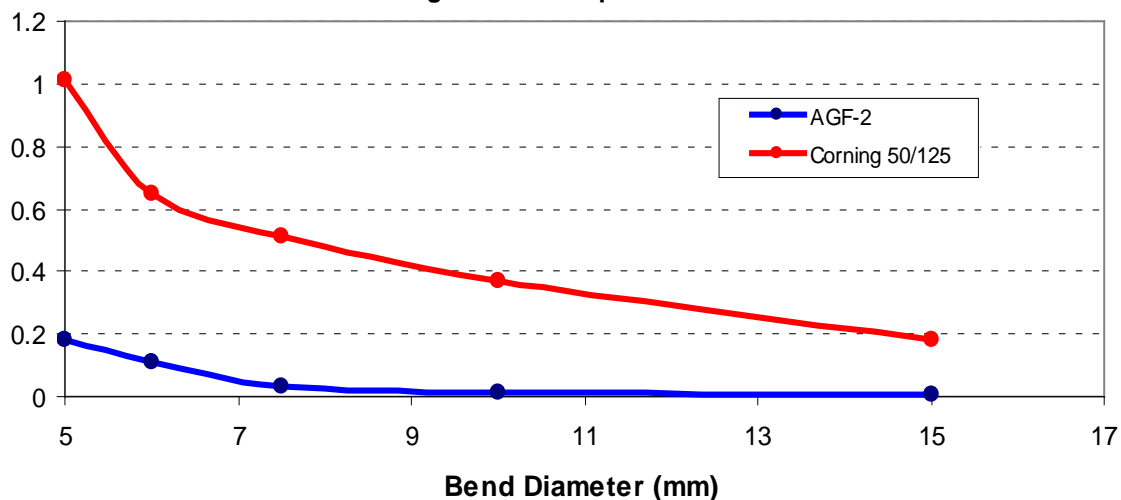- Fiber to the home (FTTH)
- Backplane ribbon cable
- Instrumentation

Performance Specifications

Multimode-50/125

Connector Specifications	Insertion Loss (dB)*	0.50 Typical	
	Return Loss (dB)*	25 Typical	
Cable Specifications	Wavelength (nm)	850	1300
	Attenuation (dB/km)	2.5	0.6
	Bandwidth (MHz-Km)	1500	500

* Our device is designed and optimized for certain laser launch condition which is characterized as CPR value. In general, if application exceeds the specified CPR value, optical performance will become worsen.

Low Bend Multimode Fiber

Bend Loss specification

Bend Loss specification@ radius	
2. 5 mm	1.2 dB for 10 turn
5 mm	0.18 dB for 10 turn
7.5 mm	0.03 dB for 10 turn
15 mm	0.01 dB for 10 turn
Splice Loss vs corning 50/125	
Average for 10 times	0.018 dB

Average Bend Loss per Turn

Ordering Information

LBFC-	Package	Fiber Length	Fiber Type	Cable Type	Cable color	Connector
	Simplex=1 Duplex=2 Ribbon=3 Special=0	1m=10 1.5m=15 2m=20 3m=30 Special=0	50/125=050 62.5/125=625 100/140=100 Special=000	Bare fiber=1 900um loose=2 900um tight=3 Special=0	red=r blue=b yellow=y green=g black=k white=w orange=o Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Special=0