

FiberSource

MTP LGX Cassette System

This is a preterminated optical fiber cabling solution designed to speed up the process of deploying a fiber optic system. Using MTP connectors and Ribbon Fiber Cables, all components are preterminated and tested. Since the system components simply plug together, an optical cabling system can be installed and operational in a fraction of the time and cost compared to conventional field installation practices.

The system is comprised of 3 components:

1. Ribbon backbone cables preterminated with high density MTP connectors with a pulling eye attached.
2. Cassette modules that plug into the backbone cables and distribute fibers to standard interfaces like SC, LC and others.
3. Rack mount patch panels that house the backbone cables and system cassette modules.

Applications

- Data Centers
- Storage Area Networks (SAN)
- Local Area Networks (LAN)

Features / Benefits

- No special training or tools required
- No cable preparation or field connectorization required
- Time-saving, low cost installation
- Factory installed and 100% tested and certified
- Wide selection of fibers, cable types, and connectors

High density system modules are scalable



24- High density LC cassette module



36-fiber MTP[®] backbone cable

Trunk/Backbone Cables

MTP trunk ribbon cables are factory terminated with 12 fiber MTP connectors. The high density, small form factor connectors make pulling preterminated cables in ducts and conduits simple and easy. Because the trunks/backbones are preterminated, cable preparation and termination are eliminated, cutting up to 70% of installation time. All cables are 100% optically tested and certified and come with a pulling grip installed. Deploying a fiber optic cabling system is fast and easy with a LGX cassette system.

Trunk/backbone cables are available from 12-72 fibers in Singlemode, multi mode 62.5/125, standard performance multimode 50/125 and 10Gbps Laser Enhanced 50/125. Cable designs are available to meet any installation requirement including:

Indoor Premise Cables: For indoor premise installations that meet UL plenum (OFNP) and riser (OFNR) requirements.

Indoor/Outdoor Cables: UL Plenum or riser listed cables that are water blocked for outdoor installations and can be run directly indoors beyond the 50 foot transition point.

LSZH Premise Cables: Non-toxic, non-corrosive Low Smoke Zero Halogen indoor cables for special installations.

Interlocked Armor Cables: For industrial indoor installations requiring extra protection or for mission critical applications.



Multimode, Singlemode, and 10Gbps cables



36-fiber cable with pulling eye

The MTP Cassette Modules serve as the transition point from MTP terminated trunks/backbones to one or two fiber adapter ports. The front side (equipment side) of the module contains industry standard interfaces for patching to active devices. The rear (cabling side) contains MTP interfaces for connecting to the trunk/backbone cabling system. An optical assembly inside the cassette housing interconnects the rear and front ports. You simply plug the backbone cable into the rear of the cassette and plug patch cords from your equipment into the front of the cassette and your fiber optic system is operational. The cassette modules are available with 12 or 24 ports and come in wide array of industry standard interfaces such as LC, SC and others. They are 100% optically tested and factory certified. The cassette modules can be mounted in any FiberSource 7" rack mount patch panel. Their compact design allows for up to 288 fibers in a 4U rack space.



24-port cassette (rear view)



24 port LC cassette

Patch Panel Enclosures

The MTP cassette modules can be mounted in any FiberSource 7" rack mount patch panel. They protect, organize, and manage cables and cassette modules. Each cabinet provides for multiple cable entry and exit; easy access to cassettes from the front and rear; bend radius management for incoming cables and outgoing patch cords.

Rack mount panels hold up to 12 cassettes.

FIBER PERFORMANCE SPECIFICATIONS

Fiber Type	62.5/125	50/125	50/125 10Gbps	Singlemode
Max. Attenuation (dB/km)	3.5/1.0	3.0/1.0	3.0/1.0	1.0/0.80
Min. Bandwidth (MHz-km)	200/500	500/500	1500/500	-/-
Gigabit Ethernet Distance(m)	220/550*	550/550*	1000/600	-/5000
10 Gigabit Ethernet Distance(m)	26/300*	82/300*	500/300	10000/40000
Fiber Type Code	12	21	28	31

*Requires the use of mode conditioning patch cords.

BACKBONE/TRUNK LOSS SPECIFICATIONS

Type	Insertion Loss @ 1300 nm
50/125	0.75 dB
62.5/125	0.75 dB
Singlemode	0.75 dB

ORDERING INFORMATION

MTP Trunk/Backbone Cables

1) Select cable type. 2) Select fiber count. 3) Select fiber type. 4) Select cable length.

FS **M**

- 1) R = Indoor cable Riser
- U = Indoor/Outdoor cable
- L = Low Smoke Zero Halogen
- A = Interlocked Armored cable

- 2) 12, 24, 36, 48, 72 fibers
- 3) Select from above table, Fiber Type Code
- 4) Designate cable length in meters

MTP Cassette Modules

1) Select fiber type. 2) Select number of ports. 3) Select connector type.

FS ① ② ③

- 1) 50 = 50/125
- 51 = 50/125 10Gigabit laser enhanced
- 60 = 62.5/125
- 90 = Singlemode
- 2) 12 or 24 ports
- 3) 01 = Duplex ST (12 ports only)
- 02 = Duplex SC (12 ports only)
- 14 = LC

