

# Fiber Cables & Hardware

Since 1992, Quiktron has been the premier manufacturer of high performance fiber optic cables nationwide. Whether you are looking for standard or custom fiber cables, Quiktron can provide the ideal solution for your requirements based on your timeframe and within your budget. Our products range from simple to complex, standard to custom - all available for quick delivery and backed by customer support that is unparalleled in the marketplace.

Whether your application requires simple patch cables, complex multi-strand pre-terminated trunk cables or something in between, Quiktron has the experience, expertise and capabilities to meet virtually any fiber optic cable requirement in a timeframe that moves at the speed of your business. In fact, many standard fiber cables are available for same day shipment and most custom fiber assemblies are available to ship in just two business days.

We consistently stretch our limits to ensure that we are providing you the most personal, knowledgeable and timely service in finding the right fiber cable for your application. Contact your customer service representative for more information on Quiktron's fiber optic cable solutions.

## In This Section:

▪ Custom Fiber .....	4-6
▪ Laser-optimized .....	7-8
▪ Bend Tolerant Cable Assemblies .....	9-10
▪ Multimode .....	11-14
▪ Single-mode .....	15-17
▪ Mode Conditioning .....	18
▪ MTP® .....	19-20
▪ Fiber Optic Hardware .....	21-24



pg. 7



pg. 15



pg. 19



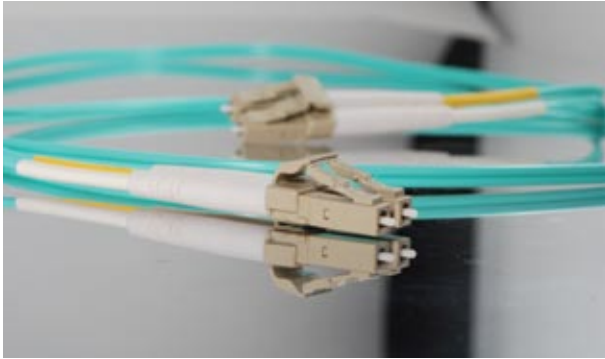
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# FIBER CABLE COMPARISON

## Flexible Fiber Choices from Quiktron

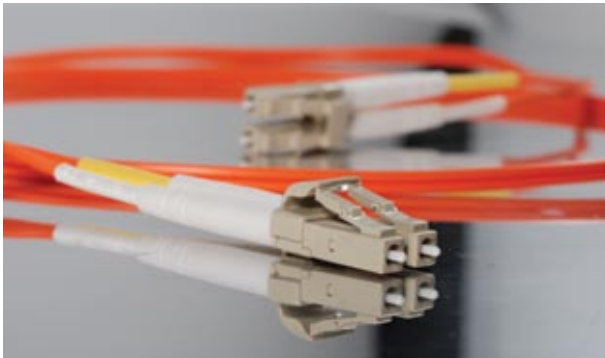
Quiktron can produce virtually any type of fiber optic patch cable or multi-fiber break-out cable quickly and cost effectively. Standard multimode (50 and 62.5 $\mu$ m), 50 $\mu$ m, 10 gigabit Laser-optimized and Single-mode assemblies are a core part of our business. We also provide patch cables, attenuators, node/drop service cables, fiber optic launch boxes and multi-fiber assemblies to ensure that our customers receive exactly what they need.

## Corning Gold Series Fiber Solutions



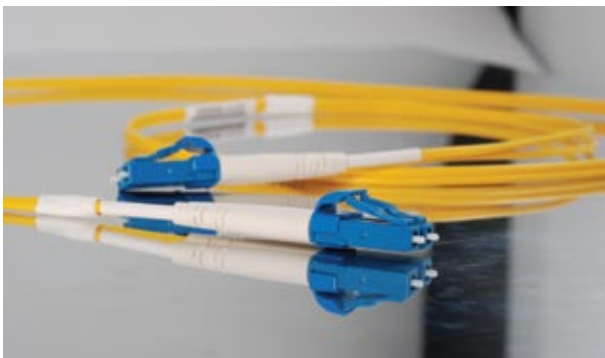
- Strand counts from 1 to 288
- All cables and connectors are built to Quiktron and industry standards
- Wide variety of connectors available including ST, SC, LC, FC, MTRJ, MTP<sup>®</sup> and more
- Insertion loss and reflectance measurements that meet or exceed industry standards
- Ultra PC, and Angled PC connector polishing options
- Advanced automated assembly and polishing techniques
- Factory termination results in superior performance compared to field terminated cables
- 9 $\mu$ m single-mode, 50 $\mu$ m, 10 gigabit laser-optimized or 62.5 $\mu$ m multimode fiber
- All Corning Gold Series fiber patch cables are included in the 25-year extended warranty offered on complete LANscape<sup>®</sup> Solutions installations
- Ships in as little as two business days

## Q-Series Fiber Solutions



- Strand counts from 1 to 288
- Insertion loss and reflectance measurements that meet or exceed industry standards
- Domestically manufactured using the highest quality components
- All cables and connectors are built to Quiktron and industry standards
- Wide variety of connectors available including ST, SC, LC, FC, MTRJ, MTP and more
- Ultra PC, and Angled PC connector polishing options
- Advanced automated assembly and polishing techniques
- Factory termination results in superior performance compared to field terminated cables
- 9 $\mu$ m single-mode, 50 $\mu$ m, 10 gigabit laser-optimized or 62.5 $\mu$ m multimode fiber
- Ships in as little as two business days

## Value Series Fiber Solutions



- All cables and connectors are built to industry standards
- Wide variety of connectors available including ST, SC, LC, FC, MTRJ, MTP and more
- Insertion loss and reflectance measured on every connector
- We offer Ultra PC, and Angled PC connector polishing options
- Factory termination results in superior performance compared to field terminated cables
- 9 $\mu$ m single-mode, 50 $\mu$ m, 10 gigabit laser-optimized or 62.5 $\mu$ m multimode fiber
- Simplex and duplex cable
- Available for same day shipping

## Quiktron Custom Fiber Solutions

Quiktron is regarded as the leader in providing custom fiber optic solutions. We specialize in providing multi-fiber assemblies, including MTP®, that meet our customers' specifications and time requirements. These cables save field termination time and money, while providing a superior factory termination. We carefully construct these cables with the installer in mind to ensure reliability and simplicity for any type of application. All connector types are available up to 288-count fiber cable, in custom lengths and colors. Identification labels, pulling eyes and installer-friendly spools make these cables a great option for both indoor and outdoor applications.

## Key Benefits of Quiktron Custom Fiber Solutions

### Faster, Easier Installation

- With no fiber preparation, termination kits or specialized termination training required, Quiktron Custom Fiber Solutions save installers time and money
- Pulling eyes, identification labels, and spooled solutions reduce the amount of time required for installation

### Improved Performance

- Cables are fully tested and ready for installation
- Factory terminated connectors provide improved end to end performance

### Greater Savings

- Quiktron Custom Fiber Solutions reduce waste caused by improper field termination
- Reduce the overhead required to outfit field installers with multiple types of fiber, connectors, and tools
- Reduce the number of hours required for installation

### Quick Turn-Around Time

- Custom Pre-terminated Fiber Solutions ship in as little as two business days

## Frequently Requested Custom Fiber Options

- 62.5/125 and 50/125 multimode fiber
- 10 Gigabit laser-optimized 50/125 multimode fiber (LOMMF)
- 9/125 single-mode fiber
- Mode conditioning patch cables
- Multi-fiber solutions (pre-terms)
- MTP trunk and break-out cables
- Custom solutions for plenum, low-smoke zero halogen, direct burial, and riser applications
- ST, SC, LC, FC, MTRJ, Escon®, MTP connectors
- Identification labels
- Pulling eyes
- Installer-friendly spools for faster and easier installation



FIBER

COPPER

RAPIDRUN

AUDIO/VIDEO

PC/COMPUTER

# CUSTOM FIBER ASSEMBLIES

## Quiktron Optical Fiber Cable Solutions

### Core Types

- 62.5/125 and 50/125 standard multimode
- 10 gigabit laser-optimized 50/125 multimode
- 9/125 single-mode
- Mode conditioning

### Fiber Count and Construction

- 1-288 strands
- Simplex cable
- Duplex zipcord
- Multi-strand breakout cable
- Distribution cable
- Loose tube
- Indoor/outdoor

### Jacket Types

- PVC - Also referred to as OFNR; for use in riser applications
- Plenum - Also referred to as z; for use in air spaces (plenums); when exposed to extreme heat or flames do not emit toxic chlorine gases; this designation is required by the NEC to be stamped on all cable jackets that meet this rating

### Specialty Fiber Types

Fiber specifically designed to be installed outside, either underground or from pole to pole

#### Direct burial

- Armored fiber which is designed to be buried; resistant to environment and rodent penetration

#### Underground

- Non-armored fiber designed to be installed in a conduit outside

#### Fiber With Messenger

- Built in metal cable to attach to buildings/poles for support

#### Lash-able

- Designed to be attached with metal bands (lashed) to existing cable

#### Self Supporting

- Extra rugged to support it's own weight over a specific span; does not have a messenger wire attached

#### Interlocking Armor

- Interlocking armored fiber has a built in armor surrounding the cable jacket enabling it to be installed without conduit

## Additional Multi-Fiber Options

- Installer-friendly spools
- Pulling eyes
- Identification labels
- Low-smoke zero halogen cables
- Availability in riser (OFNR) or plenum (OFNP) rated jackets
- Military specs available
- Pre-terminated cables over 100ft are typically shipped on a double lipped spool for ease of installation and protection

Simplex Cable



Duplex Zipcord



2 Fiber Count



4 Fiber Count



12 Fiber Count



Distribution Cable



## Creating Your Pre-Terminated Multi-Fiber Assembly Part Number

Creating your custom multi-fiber part number is easy. Below is a step by step guide to creating your custom multi-fiber assembly part number. For additional assistance, please contact your Quiktron representative.

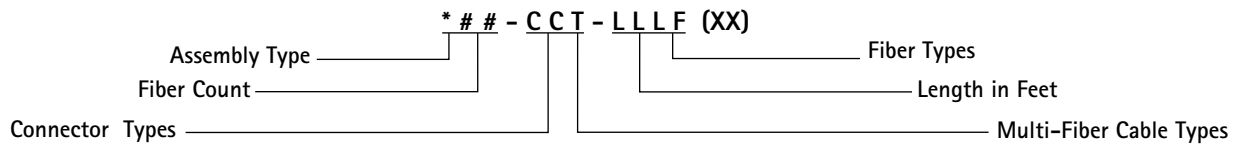
1. Select the assembly type from the options in the Assembly Type Chart
2. Note the fiber count (2-288)
3. Select your connector types and choose the correct codes from the Connector Types Chart
4. Select your multi-fiber cable types and select the correct codes from the Multi-Fiber Cable Types Chart
5. Note the length of your cable in feet (Example: 6 feet would be 006)
6. Select your fiber types and choose the correct codes from the Multi-Fiber Types Chart
7. Finally, select any special options and choose the correct code from the Special Options Chart

You can also use our online fiber configurator by visiting [www.quiktron.com/custom\\_cables.asp](http://www.quiktron.com/custom_cables.asp)

### Pre-Terminated Multi-Fiber Assembly Part #'s

Part number example: 824-M41M-100S =

MTP®/SC trunk on 24 fiber MIC riser cable; 100 feet; Single-mode fiber



#### \* (Assembly Type)

8 Q-Series  
AC All Corning

#### ## (Fiber Count)

2 288

#### C (Connector Types)

0 Blunt (Flying Lead)  
1 ST (Standard 50µm & 62.5)  
2 ST (10Gig 50µm & SM)  
3 SC (Standard 50µm & 62.5)  
4 SC (10Gig 50µm & SM)  
5 FDDI Ceramic  
6 FC Ceramic  
7 SMA 906  
8 SC/APC  
9 FC/APC  
M MTP  
MT MTRJ  
S Stainless ST  
T ST/APC

#### T (Multi-Fiber Cable Types)

0 Corning Altos/LST (Outdoor Gel)  
1 Corning MIC Riser (D-Series 900um Indoor) (Ribbon For MTP) (Harnesses Bare Ribbon)  
1M Corning MIC Riser for MTP  
2 Corning MIC Plenum (D-Series 900µm Indoor) (Ribbon For MTP )  
2M Corning MIC Plenum for MTP  
3 Corning Fan-Out Riser (2.9mm Subunits Indoor)  
4 Corning Fan-Out Plenum (2.9mm Subunits Indoor)  
5 Corning Freedom (Riser Indoor/Outdoor-Gel)  
6 OCC Riser (D-Series, Indoor/Outdoor)  
7 OCC Plenum (D-Series, Indoor/Outdoor)  
8 OCC Break-Out Riser (B-Series 2.4mm Subunits Indoor/Outdoor)  
9 OCC Break-Out Plenum (B-Series 2.4mm Subunits Indoor/Outdoor)  
5R Freedom 1  
5P Freedom 1 Plenum  
6G GX Series OCC  
6M OCC D-Series with Messenger  
6RM OCC RM Series Round Messenger Cable  
8MIL Military Spec  
8FX Ultra Fox OCC  
SBT Adventum Indoor/Outdoor Riser

#### F (Fiber Types)

M Multimode 62.5/125  
S Single-mode  
50 50µm  
50L 50µm10Gig  
R Ribbon

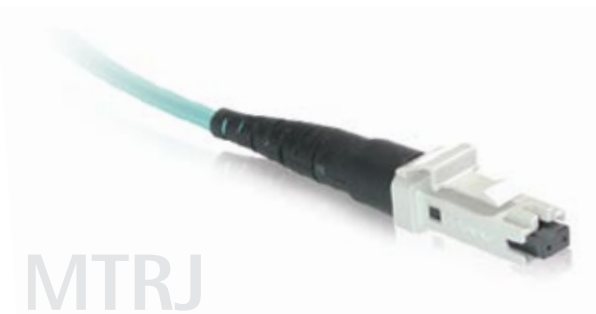
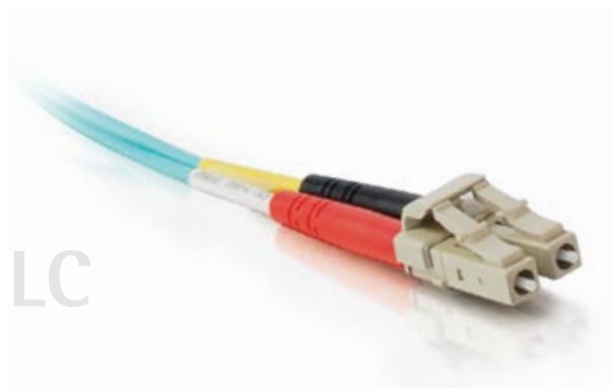
#### LLL (Length in Feet)

#### XX (Special Options)

A Armor  
B Berk-Tek  
C Color of Fiber Type  
L Label One End  
E Elite MTP  
F# Furcation Size  
P Pinned MTRJ/Pinned MTP  
IA Interlocking Armor  
ID Innerduct  
CB Color of Boots  
LL Label Both Ends  
SK Spider Fan-Out Kit  
AM Aerial with Messenger  
DS All Dialect Self Supporting Aerial

Customer Specific:  
First Two Letters of Customer Name

# 50 $\mu$ m LASER-OPTIMIZED MULTIMODE FIBER



## 50/125 $\mu$ m Laser-Optimized Multimode Fiber Optic Patch Cables

Get blazing-fast, 10 gigabit performance with Laser-optimized 50/125 Multimode Fiber Patch Cables from Quiktron. Laser-optimized Multimode Fiber (LOMMF) Cables provide backward compatibility with existing 50/125 equipment, while providing the performance headroom required to support laser light sources and 10 gigabit applications. Custom lengths and multi-fiber solutions also are available.

### Features:

- Fully compatible with 50/125 multimode fiber applications
- Meets 300m, 10 gigabit serial ethernet distance performance requirements
- For use with both LED and VCSEL light sources
- Designed for use in 10 gigabit ethernet applications
- Lifetime warranty against defects of materials and workmanship
- 100% optically tested
- Factory terminated for superior performance
- Meets or exceeds industry standards for return loss and reflectance
- Advanced automated assembly and polishing techniques
- Made in USA (Corning and Q-Series)

### Custom Configurations:

- Custom connector polishes available upon request
- 1.6 and 2.0 diameters also available upon request
- Custom color jackets and boots available
- Custom solutions can ship in as little as two business days, including multi-fiber solutions
- Many configurations and lengths in stock

# 50µm LASER-OPTIMIZED MULTIMODE FIBER

FIBER

COPPER

RAPIDRUN

AUDIO/VIDEO

PC/COMPUTER

## 50µm Laser-Optimized Connector Specifications

Brand	Connector	Typical Insertion Loss	Max. Insertion Loss	Standard Polish	Cable Diameter	Housing	Ferrule
Corning Gold Series	ST	0.20dB	0.50dB	PC	2.8	Metal	Ceramic
Corning Gold Series	SC	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	MTRJ	0.30dB	0.50dB	PC	2.8	Composite	Composite
Corning Gold Series	LC	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	ST	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	SC	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	MTRJ	0.30dB	0.50dB	PC	2.8	Composite	Composite
Q-Series	LC	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Value Series	MTRJ	0.30dB	0.50dB	PC	1.8 Duplex	Composite	Composite
Value Series	LC	0.30dB	0.50dB	PC	1.8 Duplex	Composite	Ceramic

## Corning Gold Laser-Optimized MM Fiber Jumpers

	ST	SC	MTRJ	LC
<b>ST</b>	832-222-LLL	832-242-LLL	833-022-LLL	832-L22-LLL
<b>SC</b>	832-242-LLL	832-442-LLL	833-042-LLL	832-L42-LLL
<b>MTRJ</b>	833-022-LLL	833-042-LLL	833-002-LLL	833-0L2-LLL
<b>LC</b>	832-L22-LLL	832-L42-LLL	833-0L2-LLL	832-LL2-LLL

LLL – Length can be customized to meet your specifications.  
When ordering cables please specify length in feet or meters.

## Q-Series Laser-Optimized MM Fiber Jumpers

	ST	SC	MTRJ	LC
<b>ST</b>	842-222-LLL	842-242-LLL	843-022-LLL	842-L22-LLL
<b>SC</b>	842-242-LLL	842-442-LLL	843-042-LLL	842-L42-LLL
<b>MTRJ</b>	843-022-LLL	843-042-LLL	843-002-LLL	843-0L2-LLL
<b>LC</b>	842-L22-LLL	842-L42-LLL	843-0L2-LLL	842-LL2-LLL

LLL – Length can be customized to meet your specifications.  
When ordering cables please specify length in feet or meters.

## Plenum Rated Corning Gold Laser-Optimized MM Fiber Jumpers

	ST	SC	MTRJ	LC
<b>ST</b>	832-224-LLL	832-244-LLL	833-024-LLL	832-L24-LLL
<b>SC</b>	832-244-LLL	832-444-LLL	833-044-LLL	832-L44-LLL
<b>MTRJ</b>	833-024-LLL	833-044-LLL	833-004-LLL	833-0L4-LLL
<b>LC</b>	832-L24-LLL	832-L44-LLL	833-0L4-LLL	832-LL4-LLL

LLL – Length can be customized to meet your specifications.  
When ordering cables please specify length in feet or meters.

## Plenum Rated Q-Series Laser-Optimized MM Fiber Jumpers

	ST	SC	MTRJ	LC
<b>ST</b>	842-224-LLL	842-244-LLL	843-024-LLL	842-L24-LLL
<b>SC</b>	842-244-LLL	842-444-LLL	843-044-LLL	842-L44-LLL
<b>MTRJ</b>	843-024-LLL	843-044-LLL	843-004-LLL	843-0L4-LLL
<b>LC</b>	842-L24-LLL	842-L44-LLL	843-0L4-LLL	842-LL4-LLL

LLL – Length can be customized to meet your specifications.  
When ordering cables please specify length in feet or meters.

## Value Series 50/125 Laser-Optimized MM Fiber Jumpers

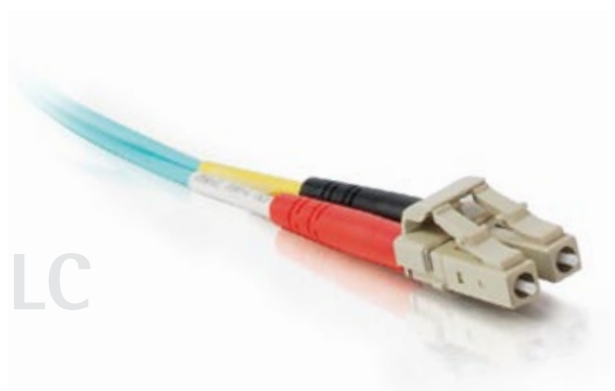
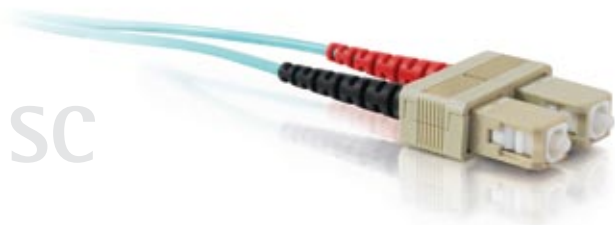
	LC-LC	LC-SC	SC-SC
1m	852-LL2-003	852-L42-003	852-442-003
2m	852-LL2-006	852-L42-006	852-442-006
3m	852-LL2-009	852-L42-009	852-442-009
4m	852-LL2-013	852-L42-013	852-442-013
5m	852-LL2-017	852-L42-017	852-442-017
6m	852-LL2-020	852-L42-020	852-442-020
7m	852-LL2-023	852-L42-023	852-442-023
8m	852-LL2-026	852-L42-026	852-442-026
9m	852-LL2-030	852-L42-030	852-442-030
10m	852-LL2-033	852-L42-033	852-442-033
15m	852-LL2-050	852-L42-050	852-442-050
20m	852-LL2-066	852-L42-066	852-442-066

## What is LOMMF?

Laser-optimized 50µm Multimode Fiber is a graded-index product specially designed to reduce the negative effects of Differential Mode Dispersion (DMD), especially when using VCSEL lasers that are popular in today's high speed Gigabit Ethernet networks. When using a VCSEL laser with conventional multimode fiber, digital pulses can spread out and cause bit errors during data transmission. This is due to the inherent nature of the laser and the gradient index fiber as the speed of the transmission slows toward the center of the core. By optimizing the index profile of the fiber core, DMD effects can be reduced and the effective bandwidth will be increased to support 1000BASE Ethernet standards.



# BEND TOLERANT CABLE ASSEMBLIES



## Bend Tolerant Fiber Optic Patch Cables

Quiktron's Bend Tolerant Fiber Optic Cable Assemblies are designed to improve the overall performance of fiber networks by reducing attenuation that can commonly cause system unreliability and downtime induced in local area network (LAN) datacenter environments and high performance single-mode systems. This product when subjected to tighter radii bends results in virtually no signal loss, making it the most reliable cost-effective fiber optic cable connectivity solution. Available in both multimode and single-mode – see below for details.

The Ultra Bend 300 and Quiktron QuikBend™ 300 product line provides superior ISO/IEC OM3 50µm multimode laser-optimized performance allowing 10 gigabit ethernet performance over 300 meters and 1Gb performance over 1km. With a minimum bend radius of 7.5mm, Quiktron Bend Tolerant assemblies can withstand many "less-than-ideal" situations in the interconnect space and allow fiber technicians and engineers to work with greater flexibility than ever before in today's high-density fiber topologies.

All QuikBend assemblies utilize a proprietary manufacturing process to ensure a high quality connector with exceptional connector end-face quality, geometry, insertion loss, and back reflection characteristics. Quiktron's highest quality connectors, combined with cutting-edge technologies in fiber innovation continue to provide network personnel with the best range of solutions at the greatest value.

### Features:

- 7.5mm and 10mm minimum bend radii cable available
- 50µm multimode 10Gb ISO/IEC OM3 compliance
- Single-mode ITU G.657A and ITU G.657A/B compliance
- Corning Gold jumpers made with 100% Corning components
- Lifetime warranty against defects of materials and workmanship
- 100% optically tested
- Factory terminated for superior performance
- Meets or exceeds industry standards for return loss and reflectance
- Advanced automated assembly and polishing techniques
- Made in USA

### Custom Configurations:

- Custom connector polishes available upon request
- 1.6 and 2.0 diameters also available upon request
- Custom color jackets and boots available
- Custom solutions can ship in as little as two business days, including multi-fiber solutions
- Many configurations and lengths in stock

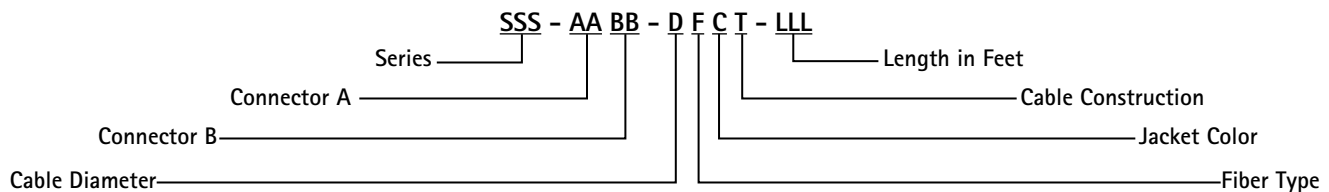
# BEND TOLERANT CABLE ASSEMBLIES

## QuikBend™ Fiber Optic Cable Solutions



Quiktron's revolutionary QuikBend™ Fiber Optic Cable Assemblies change everything. QuikBend performs in even the tightest conditions, while still maintaining compatibility with existing systems. This product, when subjected to tighter radii bends, results in virtually no signal loss, making it the most reliable cost-effective connectivity solution. QuikBend is available in both multimode and single-mode fibers.

## Part Number Configuration Options for Corning Gold and QuikBend Tolerant Cable Assemblies



### SSS (Series)

CFJ Corning Gold Cable and Connectors  
 QFJ Q-Series Cable and Connectors

### AA (Connector A) followed by BB (Connector B)

00 No Connector  
 01 LC  
 02 SC  
 03 ST  
 04 FC  
 05 Angled LC  
 06 Angled SC  
 08 Angled FC

### D (Cable Diameter)

2 2mm  
 3 3mm

### F (Fiber Type)

5 7.5mm OM3 Multimode  
 6 10mm G.657A Single-mode  
 7 7.5mm G.657.A/B Single-mode

### C (Jacket Color)

C Aqua (standard for 50µm MM)  
 1 Blue (standard for 10mm SM)  
 9 Yellow (standard 7.5mm G.657.A/B)

### T (Cable Construction)

1 Simplex Riser  
 2 Duplex Riser  
 S Simplex Plenum  
 D Duplex Plenum

### LLL (Length in Feet)

## Bend Tolerant 50µm Laser-Optimized Connector Specifications

Brand	Connector	Minimum Bend Radii	Typical Insertion Loss	Max. Insertion Loss	Standard Polish	Cable Diameter	Housing	Ferrule
Corning Gold Series	ST	7.5mm	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	SC	7.5mm	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	LC	7.5mm	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series QuikBend	ST	7.5mm	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series QuikBend	SC	7.5mm	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series QuikBend	LC	7.5mm	0.25dB	0.50dB	PC	2.8	Composite	Ceramic

## Bend Tolerant Single-mode Connector Specifications

Brand	Connector	Minimum Bend Radii	Typical Insertion Loss	Max. Insertion Loss	Reflectance	Standard Polish	Cable Diameter	Housing	Ferrule
Corning Gold Series	FC	7.5 or 10mm	0.20dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Corning Gold Series	FC/APC	7.5 or 10mm	0.25dB	0.50dB	-65dB	APC	2.8	Metal	Ceramic
Corning Gold Series	LC	7.5 or 10mm	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	SC	7.5 or 10mm	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	SC/APC	7.5 or 10mm	0.25dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Corning Gold Series	ST	7.5 or 10mm	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	LC/APC	7.5 or 10mm	0.25dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Q-Series QuikBend	FC	7.5 or 10mm	0.25dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Q-Series QuikBend	FC/APC	7.5 or 10mm	0.30dB	0.50dB	-65dB	APC	2.8	Metal	Ceramic
Q-Series QuikBend	LC	7.5 or 10mm	0.25dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Q-Series QuikBend	SC	7.5 or 10mm	0.25dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Q-Series QuikBend	SC/APC	7.5 or 10mm	0.30dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Q-Series QuikBend	ST	7.5 or 10mm	0.25dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Q-Series QuikBend	LC/APC	7.5 or 10mm	0.30dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic

# MULTIMODE FIBER



## 50/125 $\mu$ m Multimode Fiber Optic Patch Cables

Quiktron's 50 $\mu$ m fiber optic patch cables are made using high quality components and materials. Our 50 $\mu$ m fiber cables provide up to three times the bandwidth of standard 62.5 $\mu$ m cables.

### Features:

- 100% optically tested with lifetime warranty
- Factory terminated for superior performance
- Meets or exceeds industry standards for return loss and reflectance
- Segmented boot for bend strain relief
- Zipcord jacket with aramid yarn strength members
- Jumpers made with 100% Corning components
- PC connector polish
- Corning Gold Series and Q-Series made in USA
- Value Series patch cables available for same day shipping

### Custom Configurations:

- Custom connector polishes available upon request
- 1.6 and 2.0 diameters also available upon request
- Custom color jackets and boots available
- Custom solutions can ship in as little as two business days

## 62.5/125 $\mu$ m Multimode Fiber Optic Patch Cables

62.5 $\mu$ m fiber patch cables by Quiktron are manufactured using high quality components and materials. Our cables are made from leading manufacturers of fiber cables and connectors and are visually inspected and optically tested for insertion loss that meet or exceed industry standards.

### Features:

- 100% optically tested with lifetime warranty
- Corning assemblies made with 100% Corning components
- Factory terminated for superior performance
- PC connector polish
- Meets or exceeds industry standards for return loss and reflectance
- Segmented boot for bend strain relief
- Zipcord jacket with aramid yarn strength members
- Corning and Q-Series made in USA
- Value Series patch cables available for same day shipping

### Custom Configurations:

- Custom connector polishes available upon request
- 1.6 and 2.0 diameters also available upon request
- Custom color jackets and boots available
- Custom solutions can ship in as little as two business days

## 50µm Multimode Connector Specifications

Brand	Connector	Typical Insertion Loss	Max. Insertion Loss	Standard Polish	Cable Diameter	Housing	Ferrule
Corning Gold Series	ST	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	SC	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	MTRJ	0.30dB	0.50dB	PC	2.8	Composite	Composite
Corning Gold Series	LC	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	FC	0.20dB	0.50dB	PC	2.8	Metal	Ceramic
Corning Gold Series	ESCON*	0.50dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	ST	0.25dB	0.50dB	PC	2.8	Metal	Ceramic
Q-Series	SC	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	MTRJ	0.30dB	0.50dB	PC	2.8	Composite	Composite
Q-Series	LC	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	FC	0.25dB	0.50dB	PC	2.8	Metal	Ceramic
Q-Series	ESCON	0.50dB	0.50dB	PC	2.8	Composite	Ceramic
Value Series	ST	0.30dB	0.50dB	PC	2.8	Metal	Ceramic
Value Series	LC	0.30dB	0.50dB	PC	2.8	Composite	Ceramic
Value Series	MTRJ	0.30dB	0.50dB	PC	1.8 Duplex	Composite	Composite
Value Series	LC	0.30dB	0.50dB	PC	1.8	Composite	Ceramic
Value Series	FC	0.30dB	0.50dB	PC	2.8	Metal	Ceramic

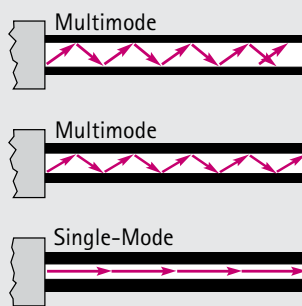
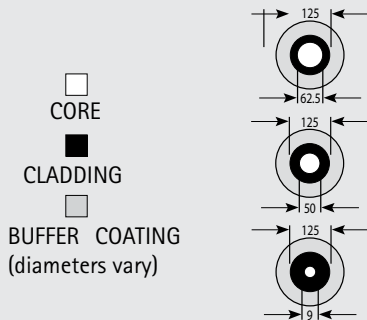
\*ESCON connectors are domestically manufactured, but are not Corning brand. Fiber specifications list the core and cladding diameters as a ratio. The top example shows the ratio of core to cladding as 62.5/125 microns. Below, the ratio between the fiber core to the fine cladding in single-mode fiber is 9/125 microns.

## 62.5µm Multimode Connector Specifications

Brand	Connector	Typical Insertion Loss	Max. Insertion Loss	Standard Polish	Cable Diameter	Housing	Ferrule
Corning Gold Series	ST	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	SC	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	MTRJ	0.30dB	0.50dB	PC	2.8	Composite	Composite
Corning Gold Series	LC	0.20dB	0.50dB	PC	2.8	Composite	Ceramic
Corning Gold Series	FC	0.20dB	0.50dB	PC	2.8	Metal	Ceramic
Corning Gold Series	ESCON*	0.50dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	ST	0.25dB	0.50dB	PC	2.8	Metal	Ceramic
Q-Series	SC	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	MTRJ	0.30dB	0.50dB	PC	2.8	Composite	Composite
Q-Series	LC	0.25dB	0.50dB	PC	2.8	Composite	Ceramic
Q-Series	FC	0.25dB	0.50dB	PC	2.8	Metal	Ceramic
Q-Series	ESCON	0.50dB	0.50dB	PC	2.8	Composite	Ceramic
Value Series	ST	0.30dB	0.50dB	PC	2.8	Metal	Ceramic
Value Series	LC	0.30dB	0.50dB	PC	2.8	Composite	Ceramic
Value Series	MTRJ	0.30dB	0.50dB	PC	1.8 Duplex	Composite	Composite
Value Series	LC	0.30dB	0.50dB	PC	1.8	Composite	Ceramic
Value Series	FC	0.30dB	0.50dB	PC	2.8	Metal	Ceramic

\*ESCON connectors are domestically manufactured, but are not Corning brand.

## Multimode vs Single-Mode Total Internal Reflection



- For short distance
  - Easy to work with
  - Used in LANs
- For short distance
  - Easy to work with
  - Used in LANs
  - Provides more bandwidth than 62.5/125 at 850nm wavelengths
- For long distance
  - Difficult to work with
  - Used by phone companies, CATV companies

# MULTIMODE FIBER

## 50µm Multimode Fiber Jumpers

### Corning Gold Series 50µm Multimode Fiber Jumpers

	ST	SC	MTRJ	LC	ESCON*
<b>ST</b>	830-112-LLL	830-132-LLL	831-012-LLL	830-L12-LLL	830-E12-LLL
<b>SC</b>	830-132-LLL	830-332-LLL	831-032-LLL	830-L32-LLL	830-E32-LLL
<b>MTRJ</b>	831-012-LLL	831-032-LLL	831-002-LLL	831-OL2-LLL	831-OE2-LLL
<b>LC</b>	830-L12-LLL	830-L32-LLL	831-OL2-LLL	830-LL2-LLL	830-EL2-LLL
<b>ESCON*</b>	830-E12-LLL	830-E32-LLL	831-OE2-LLL	830-EL2-LLL	830-EE2-LLL
<b>Plenum Rated</b>					
<b>ST</b>	830-114-LLL	830-134-LLL	831-014-LLL	830-L14-LLL	830-E14-LLL
<b>SC</b>	830-134-LLL	830-334-LLL	831-034-LLL	830-L34-LLL	830-E34-LLL
<b>MTRJ</b>	831-014-LLL	831-034-LLL	831-004-LLL	831-OL4-LLL	831-OE4-LLL
<b>LC</b>	830-L14-LLL	830-L34-LLL	831-OL4-LLL	830-LL4-LLL	830-EL4-LLL
<b>ESCON</b>	830-E14-LLL	830-E34-LLL	831-OE4-LLL	830-EL4-LLL	830-EE4-LLL

\*LLL – Length can be customized to meet your specifications. When ordering cables please specify length in feet or meters. \*ESCON connectors are domestically manufactured, but are not Corning brand. The ESCON connector is a trademark of IBM.

### Q-Series 50µm Multimode Fiber Jumpers

	ST	SC	MTRJ	LC	ESCON*
<b>ST</b>	822-112-LLL	822-132-LLL	823-012-LLL	822-L12-LLL	822-E12-LLL
<b>SC</b>	822-132-LLL	822-332-LLL	823-032-LLL	822-L32-LLL	822-E32-LLL
<b>MTRJ</b>	823-012-LLL	823-032-LLL	823-002-LLL	823-OL2-LLL	823-OE2-LLL
<b>LC</b>	822-L12-LLL	822-L32-LLL	823-OL2-LLL	822-LL2-LLL	822-EL2-LLL
<b>ESCON*</b>	822-E12-LLL	822-E32-LLL	823-OE2-LLL	822-EL2-LLL	822-EE2-LLL
<b>Plenum Rated</b>					
<b>ST</b>	822-114-LLL	822-134-LLL	823-014-LLL	822-L14-LLL	822-E14-LLL
<b>SC</b>	822-134-LLL	822-334-LLL	823-034-LLL	822-L34-LLL	822-E34-LLL
<b>MTRJ</b>	823-014-LLL	823-034-LLL	823-004-LLL	823-OL4-LLL	823-OE4-LLL
<b>LC</b>	822-L14-LLL	822-L34-LLL	823-OL4-LLL	822-LL4-LLL	822-EL4-LLL
<b>ESCON</b>	822-E14-LLL	822-E34-LLL	823-OE4-LLL	822-EL4-LLL	822-EE4-LLL

\*LLL – Length can be customized to meet your specifications. When ordering cables please specify length in feet or meters. \*ESCON connectors are domestically manufactured, but are not Corning brand. The ESCON connector is a trademark of IBM.

### Value Series 50µm Multimode Fiber Jumpers

	ST	SC	MTRJ	LC
<b>ST</b>	850-112-LLL	850-132-LLL	851-012-LLL	850-L12-LLL
<b>SC</b>	850-132-LLL	850-332-LLL	851-032-LLL	850-L32-LLL
<b>MTRJ</b>	851-012-LLL	851-032-LLL	851-002-LLL	851-OL2-LLL
<b>LC</b>	850-L12-LLL	850-L32-LLL	851-OL2-LLL	850-LL2-LLL

\* Value Series part numbers are available in stock units in 1, 2, 3, 5, and 10 meter lengths. Additional lengths are available. Please contact your Quiktron representative.

## 62.5µm Multimode Fiber Jumpers

### Corning Gold Series 62.5µm Multimode Fiber Jumpers

	ST	SC	MTRJ	LC	ESCON*
<b>ST</b>	825-112-LLL	825-132-LLL	826-012-LLL	825-L12-LLL	825-E12-LLL
<b>SC</b>	825-132-LLL	825-332-LLL	826-032-LLL	825-L32-LLL	825-E32-LLL
<b>MTRJ</b>	826-012-LLL	826-032-LLL	826-002-LLL	826-0L2-LLL	826-0E2-LLL
<b>LC</b>	825-L12-LLL	825-L32-LLL	826-0L2-LLL	825-LL2-LLL	825-EL2-LLL
<b>ESCON*</b>	825-E12-LLL	825-E32-LLL	826-0E2-LLL	825-EL2-LLL	825-EE2-LLL
<b>Plenum Rated</b>					
<b>ST</b>	825-114-LLL	825-134-LLL	826-014-LLL	825-L14-LLL	825-E14-LLL
<b>SC</b>	825-134-LLL	825-334-LLL	826-034-LLL	825-L34-LLL	825-E34-LLL
<b>MTRJ</b>	826-014-LLL	826-034-LLL	826-004-LLL	826-0L4-LLL	826-0E4-LLL
<b>LC</b>	825-L14-LLL	825-L34-LLL	826-0L4-LLL	825-LL4-LLL	825-EL4-LLL
<b>ESCON</b>	825-E14-LLL	825-E34-LLL	826-0E4-LLL	825-EL4-LLL	825-EE4-LLL

\*LLL – Length can be customized to meet your specifications. When ordering cables please specify length in feet or meters. \*ESCON connectors are domestically manufactured, but are not Corning brand. The ESCON connector is a trademark of IBM.

### Q-Series 62.5µm Multimode Fiber Jumpers

	ST	SC	MTRJ	LC	ESCON*
<b>ST</b>	820-112-LLL	820-132-LLL	820-012-LLL	820-L12-LLL	820-E12-LLL
<b>SC</b>	820-132-LLL	820-332-LLL	820-032-LLL	820-L32-LLL	820-E32-LLL
<b>MTRJ</b>	821-012-LLL	821-032-LLL	821-002-LLL	821-0L2-LLL	821-0E2-LLL
<b>LC</b>	820-L12-LLL	820-L32-LLL	820-0L2-LLL	820-LL2-LLL	820-EL2-LLL
<b>ESCON*</b>	820-E12-LLL	820-E32-LLL	820-0E2-LLL	820-EL2-LLL	820-EE2-LLL
<b>Plenum Rated</b>					
<b>ST</b>	820-114-LLL	820-134-LLL	820-014-LLL	820-L14-LLL	820-E14-LLL
<b>SC</b>	820-134-LLL	820-334-LLL	820-034-LLL	820-L34-LLL	820-E34-LLL
<b>MTRJ</b>	821-014-LLL	821-034-LLL	821-004-LLL	821-0L4-LLL	821-0E4-LLL
<b>LC</b>	820-L14-LLL	820-L34-LLL	820-0L4-LLL	820-LL4-LLL	820-EL4-LLL
<b>ESCON</b>	820-E14-LLL	820-E34-LLL	820-0E4-LLL	820-EL4-LLL	820-EE4-LLL

\*LLL – Length can be customized to meet your specifications. When ordering cables please specify length in feet or meters. \*ESCON connectors are domestically manufactured, but are not Corning brand. The ESCON connector is a trademark of IBM.

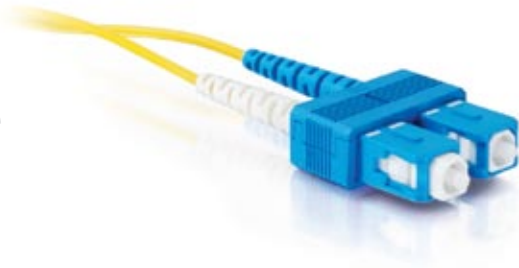
### Value Series 62.5µm Multimode Fiber Jumpers

	ST	SC	MTRJ	LC
<b>ST</b>	810-112-LLL	810-132-LLL	811-012-LLL	810-L12-LLL
<b>SC</b>	810-132-LLL	810-332-LLL	811-032-LLL	810-L32-LLL
<b>MTRJ</b>	811-012-LLL	811-032-LLL	811-002-LLL	811-0L2-LLL
<b>LC</b>	810-L12-LLL	810-L32-LLL	811-0L2-LLL	810-LL2-LLL

\* Value Series part numbers are available in stock units in 1, 2, 3, 5, and 10 meter lengths. Additional lengths are available. Please contact your Quiktron representative.

# SINGLE-MODE FIBER

SC



LC



ST



MTRJ



## 9/125µm Single-Mode Fiber Optic Patch Cables

Quiktron's full line of single-mode jumpers provide high bandwidth and transmission rates and support longer distances. Perfect for use with today's high-speed networks while providing headroom for tomorrow's requirements. Our jumpers are made using leading manufacture components. High quality jumpers are constructed using a controlled machine polish finish for low-loss connections. Our assemblies are visually inspected and optically tested for insertion loss and return loss thresholds that meet or exceed industry standards. We stock a large inventory available for same day shipping!

### Features:

- Corning assemblies made with 100% Corning components
- CMP-rated plenum jacket for use in air plenums (plenum rated only)
- 100% optically tested
- Factory terminated for superior performance
- Meets or exceeds industry standards for return loss and reflectance
- Manufactured using advanced automated assembly and polishing techniques
- Segmented boot for bend strain relief
- Zipcord jacket with aramid yarn strength members
- Corning and Q-Series made in USA
- Value Series patch cables available for same day shipping (not available for plenum rated cables)

### Custom Configurations:


- Custom connector polishes available upon request
- 1.6 and 2.0 diameters also available upon request
- Custom color jackets and boots available
- Custom solutions can ship in as little as two business days
- Call for additional custom options

9µm Single-Mode Connector Specifications								
Brand	Connector	Typical Insertion Loss	Max. Insertion Loss	Reflectance	Standard Polish	Cable Diameter	Housing	Ferrule
Corning Gold Series	FC	0.20dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Corning Gold Series	FC/APC	0.25dB	0.50dB	-65dB	APC	2.8	Metal	Ceramic
Corning Gold Series	LC	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	MTRJ	0.30dB	0.50dB	-40dB	PC	2.8	Composite	Ceramic
Corning Gold Series	SC	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	SC/APC	0.25dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Corning Gold Series	ST	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	LC/APC	0.25dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Q-Series	FC	0.25dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Q-Series	FC/APC	0.30dB	0.50dB	-65dB	APC	2.8	Metal	Ceramic
Q-Series	LC	0.25dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Q-Series	MTRJ	0.30dB	0.50dB	-40dB	PC	2.8	Composite	Composite
Q-Series	SC	0.25dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Q-Series	SC/APC	0.30dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Q-Series	ST	0.25dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Q-Series	LC/APC	0.30dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Value Series	FC	0.30dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Value Series	LC	0.30dB	0.50dB	-55dB	UPC	1.8	Composite	Ceramic
Value Series	MTRJ	0.30dB	0.50dB	-40dB	PC	1.8 Duplex	Composite	Composite
Value Series	SC	0.30dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Value Series	ST	0.30dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Value Series	LC/APC	0.35dB	0.50dB	-65dB	APC	1.8	Composite	Ceramic
Value Series	SC/APC	0.35dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Value Series	FC/APC	0.35dB	0.50dB	-65dB	APC	2.8	Metal	Ceramic


9µm Single-Mode Plenum Rated Connector Specifications								
Brand	Connector	Typical Insertion Loss	Max. Insertion Loss	Reflectance	Standard Polish	Cable Diameter	Housing	Ferrule
Corning Gold Series	FC	0.20dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Corning Gold Series	FC/APC	0.25dB	0.50dB	-65dB	APC	2.8	Metal	Ceramic
Corning Gold Series	LC	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	MTRJ	0.30dB	0.50dB	-40dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	SC	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	SC/APC	0.25dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Corning Gold Series	ST	0.20dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Corning Gold Series	LC/APC	0.25dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Q-Series	FC	0.25dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Q-Series	FC/APC	0.30dB	0.50dB	-65dB	APC	2.8	Metal	Ceramic
Q-Series	LC	0.25dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Q-Series	MTRJ	0.30dB	0.50dB	-40dB	UPC	2.8	Composite	Composite
Q-Series	SC	0.25dB	0.50dB	-55dB	UPC	2.8	Composite	Ceramic
Q-Series	SC/APC	0.30dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic
Q-Series	ST	0.25dB	0.50dB	-55dB	UPC	2.8	Metal	Ceramic
Q-Series	LC/APC	0.30dB	0.50dB	-65dB	APC	2.8	Composite	Ceramic

**Polish Types/Typical Back Reflection**

ULTRA PC  
<-55dB  
Back Reflection



ANGLED PC  
<-65dB  
Back Reflection





# SINGLE-MODE FIBER

## Corning Gold Series 9µm Single-Mode Fiber Jumpers\*

		FC	FC/APC	LC	MTRJ	SC	SC/APC	ST
FC	Simplex	825-665-LLL	825-695-LLL	825-L65-LLL	-	825-465-LLL	825-685-LLL	825-265-LLL
FC	Duplex	825-667-LLL	825-697-LLL	825-L67-LLL	826-067-LLL	825-467-LLL	825-687-LLL	825-267-LLL
FC/APC	Simplex	825-695-LLL	825-995-LLL	825-L95-LLL	-	825-495-LLL	825-895-LLL	825-295-LLL
FC/APC	Duplex	825-697-LLL	825-997-LLL	825-L97-LLL	826-097-LLL	825-497-LLL	825-897-LLL	825-297-LLL
LC	Simplex	825-L65-LLL	825-L95-LLL	825-L15-LLL	-	825-L45-LLL	825-L85-LLL	825-L25-LLL
LC	Duplex	825-L67-LLL	825-L97-LLL	825-L17-LLL	826-017-LLL	825-L47-LLL	825-L87-LLL	825-L27-LLL
MTRJ	Duplex	826-067-LLL	826-097-LLL	826-017-LLL	826-007-LLL	826-047-LLL	826-087-LLL	826-027-LLL
SC	Simplex	825-465-LLL	825-495-LLL	825-L45-LLL	-	825-445-LLL	825-485-LLL	825-245-LLL
SC	Duplex	825-467-LLL	825-497-LLL	825-L47-LLL	826-047-LLL	825-447-LLL	825-487-LLL	825-247-LLL
SC/APC	Simplex	825-685-LLL	825-895-LLL	825-L85-LLL	-	825-485-LLL	825-885-LLL	825-285-LLL
SC/APC	Duplex	825-687-LLL	825-897-LLL	825-L87-LLL	826-087-LLL	825-487-LLL	825-887-LLL	825-287-LLL
ST	Simplex	825-265-LLL	825-295-LLL	825-L25-LLL	-	825-245-LLL	825-285-LLL	825-225-LLL
ST	Duplex	825-267-LLL	825-297-LLL	825-L27-LLL	826-027-LLL	825-247-LLL	825-287-LLL	825-227-LLL
Plenum Rated								
FC	Simplex	825-666-LLL	825-696-LLL	825-L66-LLL	-	825-466-LLL	825-686-LLL	825-266-LLL
FC	Duplex	825-668-LLL	825-698-LLL	825-L68-LLL	826-068-LLL	825-468-LLL	825-688-LLL	825-268-LLL
FC/APC	Simplex	825-696-LLL	825-996-LLL	825-L96-LLL	-	825-496-LLL	825-896-LLL	825-296-LLL
FC/APC	Duplex	825-698-LLL	825-998-LLL	825-L98-LLL	826-098-LLL	825-498-LLL	825-898-LLL	825-298-LLL
LC	Simplex	825-L66-LLL	825-L96-LLL	825-L16-LLL	-	825-L46-LLL	825-L86-LLL	825-L26-LLL
LC	Duplex	825-L68-LLL	825-L98-LLL	825-L18-LLL	826-018-LLL	825-L48-LLL	825-L88-LLL	825-L28-LLL
MTRJ	Duplex	826-068-LLL	826-098-LLL	826-018-LLL	826-008-LLL	826-048-LLL	826-088-LLL	826-028-LLL
SC	Simplex	825-466-LLL	825-496-LLL	825-L46-LLL	-	825-446-LLL	825-486-LLL	825-246-LLL
SC	Duplex	825-468-LLL	825-498-LLL	825-L48-LLL	826-048-LLL	825-448-LLL	825-488-LLL	825-248-LLL
SC/APC	Simplex	825-686-LLL	825-896-LLL	825-L86-LLL	-	825-486-LLL	825-886-LLL	825-286-LLL
SC/APC	Duplex	825-688-LLL	825-898-LLL	825-L88-LLL	826-088-LLL	825-488-LLL	825-888-LLL	825-288-LLL
ST	Simplex	825-266-LLL	825-296-LLL	825-L26-LLL	-	825-246-LLL	825-286-LLL	825-226-LLL
ST	Duplex	825-268-LLL	825-298-LLL	825-L28-LLL	826-028-LLL	825-248-LLL	825-288-LLL	825-228-LLL

## Q-Series 9µm Single-Mode Fiber Jumpers\*

		FC	FC/APC	LC	MTRJ	SC	SC/APC	ST
FC	Simplex	820-665-LLL	820-695-LLL	820-L65-LLL	-	820-465-LLL	820-685-LLL	820-265-LLL
FC	Duplex	820-667-LLL	820-697-LLL	820-L67-LLL	821-067-LLL	820-467-LLL	820-687-LLL	820-267-LLL
FC/APC	Simplex	820-695-LLL	820-995-LLL	820-L95-LLL	-	820-495-LLL	820-895-LLL	820-295-LLL
FC/APC	Duplex	820-697-LLL	820-997-LLL	820-L97-LLL	821-097-LLL	820-497-LLL	820-897-LLL	820-297-LLL
LC	Simplex	820-L65-LLL	820-L95-LLL	820-L15-LLL	-	820-L45-LLL	820-L85-LLL	820-L25-LLL
LC	Duplex	820-L67-LLL	820-L97-LLL	820-L17-LLL	821-017-LLL	820-L47-LLL	820-L87-LLL	820-L27-LLL
MTRJ	Duplex	821-067-LLL	821-097-LLL	821-017-LLL	821-007-LLL	821-047-LLL	821-087-LLL	821-027-LLL
SC	Simplex	820-465-LLL	820-495-LLL	820-L45-LLL	-	820-445-LLL	820-485-LLL	820-245-LLL
SC	Duplex	820-467-LLL	820-497-LLL	820-L47-LLL	821-047-LLL	820-447-LLL	820-487-LLL	820-247-LLL
SC/APC	Simplex	820-685-LLL	820-895-LLL	820-L85-LLL	-	820-485-LLL	820-885-LLL	820-285-LLL
SC/APC	Duplex	820-687-LLL	820-897-LLL	820-L87-LLL	821-087-LLL	820-487-LLL	820-887-LLL	820-287-LLL
ST	Simplex	820-265-LLL	820-295-LLL	820-L25-LLL	-	820-245-LLL	820-285-LLL	820-225-LLL
ST	Duplex	820-267-LLL	820-297-LLL	820-L27-LLL	821-027-LLL	820-247-LLL	820-287-LLL	820-227-LLL
Plenum Rated								
FC	Simplex	820-666-LLL	820-696-LLL	820-L66-LLL	-	820-466-LLL	820-686-LLL	820-266-LLL
FC	Duplex	820-668-LLL	820-698-LLL	820-L68-LLL	821-068-LLL	820-468-LLL	820-688-LLL	820-268-LLL
FC/APC	Simplex	820-696-LLL	820-996-LLL	820-L96-LLL	-	820-496-LLL	820-896-LLL	820-296-LLL
FC/APC	Duplex	820-698-LLL	820-998-LLL	820-L98-LLL	821-098-LLL	820-498-LLL	820-898-LLL	820-298-LLL
LC	Simplex	820-L66-LLL	820-L96-LLL	820-L16-LLL	-	820-L46-LLL	820-L86-LLL	820-L26-LLL
LC	Duplex	820-L68-LLL	820-L98-LLL	820-L18-LLL	821-018-LLL	820-L48-LLL	820-L88-LLL	820-L28-LLL
MTRJ	Duplex	821-068-LLL	821-098-LLL	821-018-LLL	821-008-LLL	821-048-LLL	821-088-LLL	821-028-LLL
SC	Simplex	820-466-LLL	820-496-LLL	820-L46-LLL	-	820-446-LLL	820-486-LLL	820-246-LLL
SC	Duplex	820-468-LLL	820-498-LLL	820-L48-LLL	821-048-LLL	820-448-LLL	820-488-LLL	820-248-LLL
SC/APC	Simplex	820-686-LLL	820-896-LLL	820-L86-LLL	-	820-486-LLL	820-886-LLL	820-286-LLL
SC/APC	Duplex	820-688-LLL	820-898-LLL	820-L88-LLL	821-088-LLL	820-488-LLL	820-888-LLL	820-288-LLL
ST	Simplex	820-266-LLL	820-296-LLL	820-L26-LLL	-	820-246-LLL	820-286-LLL	820-226-LLL
ST	Duplex	825-268-LLL	825-298-LLL	825-L28-LLL	826-028-LLL	825-248-LLL	825-288-LLL	825-228-LLL

## Value Series 9µm Single-Mode Fiber Jumpers\*\*

		FC	LC	MTRJ	SC	ST
FC	Simplex	810-665-LLL	-	-	-	-
FC	Duplex	810-667-LLL	-	811-067-LLL	810-467-LLL	810-267-LLL
LC	Duplex	-	810-L17-LLL	811-017-LLL	810-L47-LLL	810-L27-LLL
MTRJ	Duplex	811-067-LLL	811-017-LLL	811-007-LLL	811-047-LLL	811-027-LLL

\* LLL – Length can be customized to meet your specifications. When ordering cables please specify length in feet or meters.

\*\* Value Series part numbers are available in stock units of 1, 2, 3, 5, and 10 meter lengths. Additional lengths are available. Please contact your Quiktron representative.



## Mode Conditioning Patch Cables

Mode Conditioning Cables from Quiktron are designed for use in Gigabit Ethernet 1000BASE-LX applications. These cables are fully compliant with IEEE 802.3z<sup>®</sup> application standards. Mode Conditioning Cables are needed in applications where new high-speed gigabit 1000BASE-LX routers and switches are being deployed into existing multimode plants.

### Features:

- IEEE 802.3z compliant
- Masks Differential Mode Delay (DMD) effects
- Use in place of standard equipment to cable plant patch cable
- Lifetime warranty

### Custom Configurations:

- Custom connector polishes available upon request
- 1.6 and 2.0 diameters also available upon request
- Custom color jackets and boots available
- Custom solutions can ship in as little as two business days
- Call for additional custom options

## Mode Conditioning Patch Cables

Part #	Description
810-24M2-003	1M ST-SC Mode Conditioning Fiber Patch Cable PVC
810-24M2-006	2M ST-SC Mode Conditioning Fiber Patch Cable PVC
810-24M2-009	3M ST-SC Mode Conditioning Fiber Patch Cable PVC
810-24M2-017	5M ST-SC Mode Conditioning Fiber Patch Cable PVC
810-24M2-033	10M ST-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-003	1M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-006	2M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-009	3M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-017	5M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-033	10M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-003	1M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-006	2M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-009	3M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-017	5M SC-SC Mode Conditioning Fiber Patch Cable PVC
810-4M42-033	10M SC-SC Mode Conditioning Fiber Patch Cable PVC

Custom lengths and configurations available. Log onto our website [www.quiktron.com](http://www.quiktron.com) and go to our Custom Fiber Center.

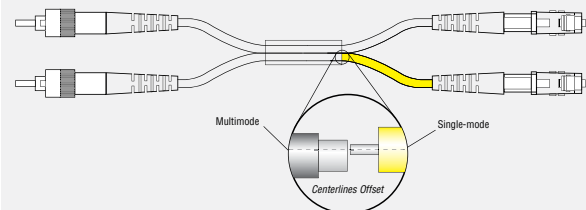
## What is a Mode Conditioning Patch Cable?

Optical Mode Conditioners provide a convenient and reliable method of connecting multimode fiber plants with 1000Base-LX based transmission equipment compliant with IEEE 802.3 standards. Mode conditioners provide a method of offsetting a single-mode fiber core with a corresponding multimode fiber. This calibrated offset reduces a phenomena called differential mode dispersion, or DMD, which can cause the transmitting laser pulse to spread out and merge into neighboring pulses creating bit errors in the transmission signal. Mode conditioners are built in the form of a simple duplex patch cable, so they can easily be installed in a system without the need for additional components or hardware. Their length can range from one meter and up to support virtually any network topography.

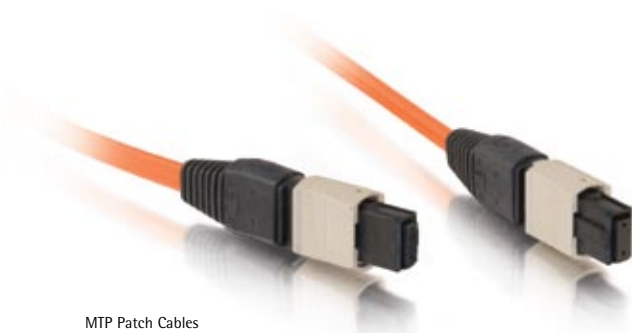
The need for this patch cord is due to the single-mode launch nature of the -LX (1300nm) transceiver modules used for Gigabit Ethernet. These modules have to operate for both single-mode and multimode fibers. Launching a single-mode laser into the center of a multimode fiber can cause multiple signals to be generated that confuse the receiver at the other end of the fiber. These multiple signals, caused by Differential Mode Delay (DMD) effects, severely limit the cable distance lengths for operating Gigabit Ethernet. A mode conditioning patch cord eliminates these multiple signals by allowing the single-mode launch to be offset away from the center of a multimode fiber. This offset point creates a launch that is similar to typical multimode LED launches.

Things to know when using mode conditioning cables to patch an existing multimode cable plant to your Gigabit LX equipment.

- Usually used in pairs, mode conditioning cables usually require a MC cable at each end to connect the equipment to the cable plant. The only reason to order an odd number of mode conditioning cables is to have a spare on hand.
- If your Gigabit LX switch is equipped with SC or LC connectors, please be sure to connect the yellow leg (single-mode) of the cable to the transmit side, and the orange leg (multimode) to the receive side of the equipment. It is imperative that this configuration be maintained on both ends. The swap of transmit and receive can only be done at the cable plant side. (see diagram below)



# MTP FIBER



MTP Patch Cables



MTP Harness Cables



MTP Trunk Cables

## MTP® Fiber Cable Solutions

High performance, high density MTP fiber cable solutions from Quiktron replace up to 12 traditional fiber connectors with one single small form factor connector reducing installation time and labor costs. They are suitable for a variety of applications: data centers, telecommunications, broadcast communication, and industrial control applications. These multi-fiber solutions provide advantages in size, offering 12 times the density when compared to a similarly sized SC connector. Factory terminated and tested, MTP solutions provide significant installation time savings during installation or reconfiguration. A push-pull design is utilized for easy mating and removal. Break-out solutions are ideal for making connections within rack mounted or wall mounted fiber enclosures that utilize single fiber connectors.

### Features:

- Made in the USA
- Available in fiber counts from 12–144
- Factory tested for insertion loss
- Compact push-pull locking mechanism
- Reduces installation time and costs
- PC polish for multimode fiber; APC polish for single-mode fiber
- Ribbon cables are 1/3 the size of tight buffered fiber optic cables, which enables them to fit into tight spaces and have a smaller minimum bend radius
- Meets TIA/EIA 604-5 (FOCIS-5) standard for MPO/MTP connectors
- Designed and tested to Telcordia-GR-1435
- Lifetime warranty

Custom configurations and test results available by request. Contact your sales representative for details.

## MTP® Fiber Cable Styles

### MTP Patch Cable

- 12 fiber strands with MTP connector on each end
- Used for point to point application or for connections to standard fiber patch panels
- Available in both single-mode and multimode fiber
- Available in both PVC (OFNR) and plenum (OFNP) jackets

### MTP Harness Cable

- Cable has a single MTP connector on one end that breaks out into 6 or 12 connectors (LC, SC, ST, etc.)
- Typically 12 strands
- Designed to save front panel space and streamline fiber management
- Available in both single-mode and multimode fiber
- Available in both PVC (OFNR) and plenum (OFNP) jackets

### MTP Trunk Cable

- Wide variety of strand counts and configurations - most common is the 12-strand plenum ribbon
- Available in both single-mode and multimode fiber
- Available in both PVC (OFNR) and plenum (OFNP) jackets
- Manufactured with a pulling eye, enables cable to go around bends without getting tangled and protects the connector during installation

MTP® Cable Key Applications	MTP® Key Configurations	
<ul style="list-style-type: none"> <li>Data Centers</li> <li>Fiber Channel Storage</li> <li>Parallel Processing Applications</li> <li>Telecommunications</li> <li>Optical Backplanes</li> <li>Industrial Control Applications</li> <li>Backbone Installations</li> <li>Disaster Recovery</li> </ul>	<b>Fiber Cable</b> <ul style="list-style-type: none"> <li>9/125 Single-Mode</li> <li>50/125 Multimode</li> <li>50/125 Laser-Optimized MM</li> <li>62.5/125 Multimode</li> </ul>	<b>Cable Style</b> <ul style="list-style-type: none"> <li>Ribbon</li> <li>MIC Cable</li> <li>Indoor/Outdoor</li> </ul>
	<b>Jacket Type</b> <ul style="list-style-type: none"> <li>PVC - OFNR rated</li> <li>Plenum - OFNP rated</li> </ul>	<b>Options</b> <ul style="list-style-type: none"> <li>Pulling Eyes</li> <li>Installer Friendly Spools</li> <li>Identification Labels</li> </ul>

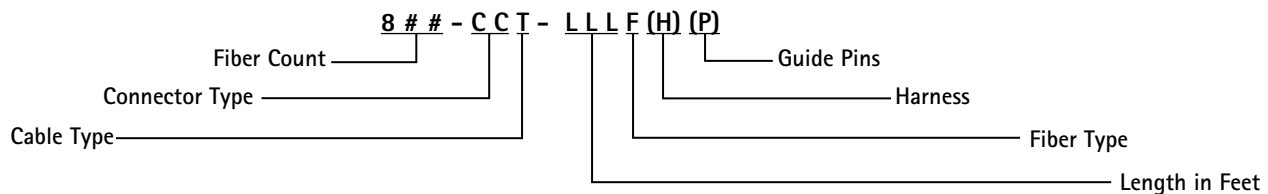
## Configuration Options MTP® Product Types

MTP to MTP Trunks MTP connectors on both ends

MTP to SC/ST/FC/LC Trunks MTP connectors on one end; SC/ST/FC/LC connectors on opposite end

Part number example: 824-M41M-100S =

MTP/SC trunk on 24 fiber MIC riser cable; 100 feet; single-mode fiber



### ## (Fiber Count)

- 12
- 24
- 48
- 72

### CC (Connector Type)

- M MTP
- 02 ST
- 04 SC
- 06 FC
- L LC

### T (Cable Type)

- 1 Ribbon Riser
- 2 Ribbon Plenum
- M 250µm Reduced Diameter Riser
- MP 250µm Reduced Diameter Plenum

### F (Fiber Type)

- S Single-mode
- M 62.5µm Multimode
- 50 50µm Multimode
- 50L Laser-optimized 50µm Multimode

### H (Harness)

Use if assembly is for a module or cassette

### P (Guide Pins)

### LLL (Length in Feet)

MTP Ribbon Trunk Cables					
Strand Count*	Cable Type	MTP-ST	MTP-SC	MTP-MTP	MTP-LC
12	62.5/125 MTP Ribbon-Plenum	812-M12-LLL	812-M32-LLL	812-MM2-LLL	812-ML2-LLL
12	50/125 MTP Ribbon-Plenum	812-M12-LLL50	812-M32-LLL50	812-MM2-LLL50	812-ML2-LLL50
12	50/125 LOMM MTP Ribbon-Plenum	812-M22-LLL50L	812-M42-LLL50L	812-MM2-LLL50L	812-ML2-LLL50L
12	9/125 LOMM MTP Ribbon-Plenum	812-M22-LLLS	812-M42-LLLS	812-MM2-LLLS	812-ML2-LLLS

\* Also available in 24, 48, and 72 strand, change the first three numbers accordingly; 824, 848, 872

MTP Reduced Diameter Cables					
Strand Count**	Cable Type	MTP-ST	MTP-SC	MTP-MTP	MTP-LC
12	62.5/125 MTP Reduced Diameter Cable	812-M1MP-LLL	812-M3MP-LLL	812-MMMP-LLL	812-MLMP-LLL
12	50/125 MTP Reduced Diameter Cable	812-M1MP-LLL-50	812-M3MP-LLL-50	812-MMMP-LLL-50	812-MLMP-LLL-50
12	50/125 LOMM MTP Reduced Diameter Cable	812-M2MP-LLL-50L	812-M4MP-LLL-50L	812-MMMP-LLL-50L	812-MLMP-LLL-50L
12	9/125 SM MTP Reduced Diameter Cable	812-M2MP-LLLS	812-M4MP-LLLS	812-MMMP-LLLS	812-MLMP-LLLS

\*\* Riser cable available upon request

# FIBER OPTIC HARDWARE

## The Q-Series Competitive Advantages

### The Most Installer-Friendly Deployment

- Pre-terminated trunk cables eliminate costly and labor-intensive field termination and make installation truly effortless. Just specify your cable requirements and break-out connection - then pull, plug and play.
- Our system is based on the high-density MTP® fiber optic connector, which can replace up to 12 field-terminated connectors with a single connection.
- Legacy trunk/ backbone connections are also supported with our adapter panels.

### The Quickest Turn-Around Time

- We ship directly from stock and offer the lowest lead times in the industry, with nearly off-the-shelf delivery.
- Our connectivity experts are always available to help you design the right solution for your needs, saving you time in the ordering process.

### Long-Term Durability and a Lifetime Guarantee

- Our factory terminations ensure the highest quality and optimum performance.
- All of our cabling and hardware components are 100% tested, shipped with a qualification report, and guaranteed for life.
- You benefit from a scalable, future-proof investment - with a modular design that can grow right along with your network.
- All enclosures, adapter panels, and fiber distribution modules are constructed of steel and aluminum, and are guaranteed for life.

### Wide Variety of Applications

- Data Centers
- Broadcast Communications
- Fiber Channel Storage
- Telecommunications
- Industrial Control Applications



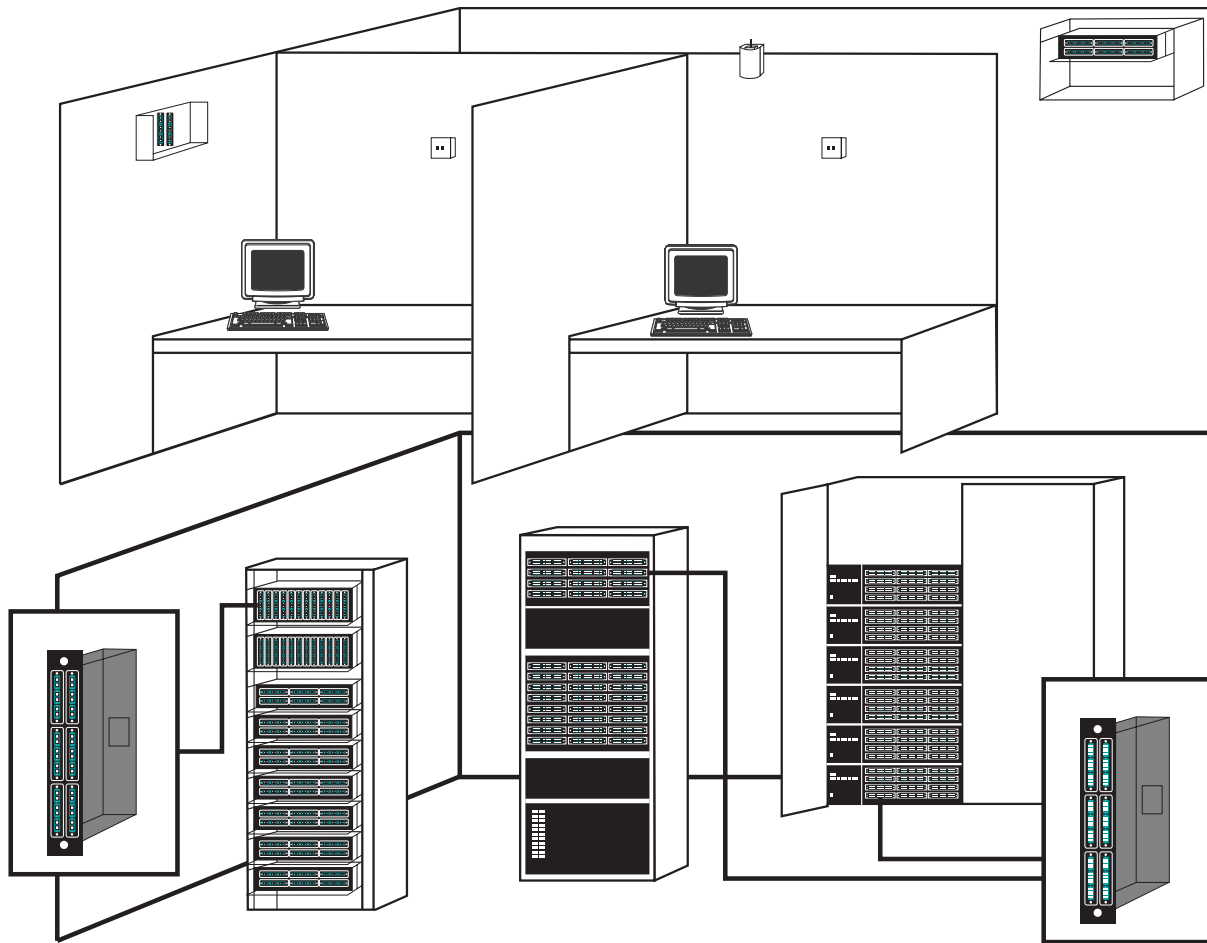
Step 1: Choose Your Enclosure



Step 2: Choose Your Module or Adapter Panel



Step 3: Choose Your Cable



**Use the Q-Series Fiber Distribution system as the transport medium between the datacenter and the end-user.**

In this example, a 19" rack mounted enclosure is installed in a network cabinet in the datacenter. Enclosed are the MTP® fiber distribution break-out modules equipped with 24-LC 10GBE (Aqua) terminations. Out in the zone, also commonly referred to as a communication closet, a wall mount enclosure with the same fiber distribution break-out module is installed. Connections between the zone and the datacenter are simply 12-Strand MTP-MTP plenum ribbon cables. Once the connections have been made between the zone and the datacenter, it is just a matter of using standard 10GBE fiber optic patch cables to connect the network hardware such as switches or routers, to

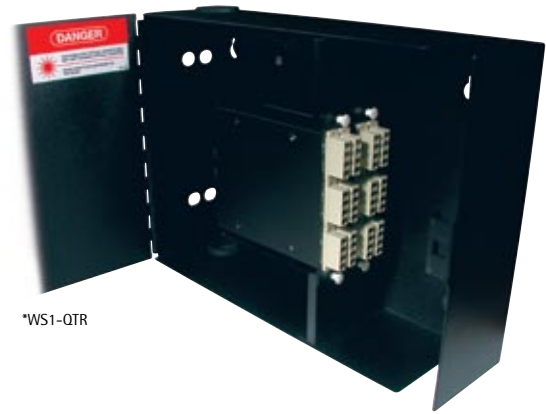
the fiber optic backbone. It cannot get any easier. Key benefits for the end-user include:

- Installation time is minimal as compared to field terminations providing significant cost savings.
- Pre-terminated solution insures highest optical performance consistently.
- Scalable, high quality solution that can adapt and change as the network changes.
- Optical cable is secure, which keeps your data safeguarded.
- Optical cable allows your local network reach to expand beyond the limitations of copper solutions.

# FIBER OPTIC HARDWARE



\*RS1-QTR



\*WS1-QTR

## Rack Mount Fiber Optic Enclosures & Panels

Our rugged rack mount enclosures can securely house 3, 6 or 12 pre-terminated modules or adapter panels. They're available in 1, 2 and 4U configurations, and feature front and rear doors for convenient access. The top panels can also be removed for additional access, and are equipped with rear knockouts for horizontal cabling entrances. Guaranteed for life, each enclosure is designed to be installed in racks or cabinets supporting 19" or 23" rails. The rack mount ears can also be adjusted to three different depths from front to rear, providing even more flexibility. Plus, for additional savings, 1 and 2U rack mount panels are available. Like the enclosures, they can accept 3 or 6 pre-terminated modules or adapter panels.

### Features:

- Both doors on the 1U enclosures are constructed of steel and feature a locking sliding inner tray for even more flexible access
- The 2U and 4U enclosures are equipped with a smoked plastic front door and a steel rear door - plus provide spool rings for securing and storing excess cable lengths with a safe bend radius
- A single 4U enclosure can support up to 288 strands, offering the highest density solution
- All units ship with an accessory pack that includes mounting screws, a cable ID label for marking terminations, and cable ties and rectangular cable holders for managing cable terminations

### Rack Mount Fiber Optic Enclosures

Part #	Description
RS1-QTR*	3 Panel - 1U Rack Mount Enclosure
RS2-QTR	6 Panel - 2U Rack Mount Enclosure
RS4-QTR	12 Panel - 4U Rack Mount Enclosure

### Rack Mount Fiber Optic Panels

Part #	Description
PS1-QTR	3 Panel - 1U Rack Mount Panel
PS2-QTR	6 Panel - 2U Rack Mount Panel

## Wall Mount Fiber Optic Enclosures & Panels

Featuring a guaranteed-for-life 100% steel construction, Quiktron wall mount enclosures are designed to secure break-out modules in the horizontal or zone distribution areas. With your choice of sizes including 1, 2, 4 and 12 break-out modules or adapter panels, these heavy-duty enclosures feature a low profile that requires little wall space, as well as a large routing space for accessible patch cabling entrance.

### Features:

- Offers the option of a 1, 2, 4, and 12 module or panel configuration
- Large top and bottom grommeted holes provide easy entrance for the horizontal trunk cables
- A latching front door, stamped with knockouts for optional locks, provides convenient access to the enclosed modules
- Spool rings for securing and storing excess cable lengths have been incorporated, facilitating a safe bend radius

### Wall Mount Fiber Optic Enclosures

Part #	Description
WS0-QTR	1 Panel Wall Mount
WS1-QTR*	2 Panel Wall Mount
WS2-QTR	4 Panel Wall Mount
WS3-QTR	12 Panel Wall Mount



\*MM3-QTR-D3



\*APL-QTR-DL

## Fiber Distribution Break-Out Modules

Our break-out modules provide the mechanical distribution of the 12-strand MTP® connector. Housed in a rugged steel enclosure that's guaranteed for life, these durable modules arrive fully loaded with the pre-terminated and tested MTP break-out harness. This not only reduces installation time but also ensures the most robust factory-quality performance and consistency. For additional convenience, our modules snap in either rack or wall mount enclosures, featuring scalable designs that can grow with your network system.

### Features:

- Available in 16 off-the-shelf configurations supporting conventional terminations such as LC, SC and ST and allowing standard patch cables to easily attach the network hardware to the fiber optic infrastructure
- Custom modules supporting other fiber types can also be turned around quickly

### Fiber Distribution Breakout Modules

Description	62.5/125u	50/125u	50/125 LOMM	Single-Mode
12-strand MTP-ST	MM3-QTR-D1	MM3-QTR-D150	MM3-QTR-D150L	MM3-QTR-D1S
12-strand MTP-SC	MM3-QTR-D3*	MM3-QTR-D350	MM3-QTR-D350L	MM3-QTR-D3S
12-strand MTP-LC	MML-QTR-DL	MML-QTR-DL50	MML-QTR-DL50L	MML-QTR-DLS
24-strand MTP-LC	MM3-QTR-QL	MM3-QTR-QL50	MM3-QTR-QL50L	MM3-QTR-QLS

## Fiber Optic Adapter Panels

The Q-Series Fiber Optic Distribution System was also designed with the older legacy infrastructure in mind. We offer a complete array of fiber optic adapter panels that are pre-loaded with mating sleeves. Simply choose the connector type that meets your needs and connect it to your backbone or trunk cable. We also can provide custom configurations.

### Features:

- Offers a small footprint: 1.125" H x 5.125" W x 4.5" D
- Adapter panels available with a wide variety of configurations

### Fiber Optic Adapter Panels

Part #	Description
AP1-QTR-S1	12-strand ST, PB Insert, MM/SM ST
AP2-QTR-S1	6-strand ST, PB Insert, MM/SM ST
AP2-QTR-S1S	6-strand ST, Zirconia Insert, SM ST
WS3-QTR	12 Panel Wall Mount
AP5-QTR-S1	8-strand ST, PB Insert, MM/SM ST
AP5-QTR-S1S	8-strand ST, Zirconia Insert, MM/SM ST
AP3-QTR-D350L	12-strand SC Duplex, PB Insert, MM, Aqua SC
AP3-QTR-D3	12-strand SC Duplex, PB Insert, MM, Beige SC
AP3-QTR-D3B	12-strand SC Duplex, PB Insert, MM/SM, Blue SC
AP3-QTR-D8S	12-strand SC Duplex, Zirconia Insert, SM, APC, Green SC
AP3-QTR-D3S	12-strand SC Duplex, Zirconia Insert, SM, Blue SC
APL-QTR-S350	6-strand SC, PB Insert, MM, Aqua SC
APL-QTR-S3	6-strand SC, PB Insert, MM, Beige SC
APL-QTR-S3B	6-strand SC, PB Insert, MM/SM, Blue SC
APL-QTR-S8S	6-strand SC, Zirconia Insert, SM, APC, Green SC
APL-QTR-S3S	6-strand SC, Zirconia Insert, SM, Blue SC
APL-QTR-S0	12-strand MTRJ, MM/SM
APL-QTR-DL50L	12-strand LC Duplex, PB Insert, MM, Aqua LC
APL-QTR-DL*	12-strand LC Duplex, PB Insert, MM, Beige LC