A close-up photograph of a network patch panel with teal ports and a fiber optic cable with a tan connector. The cable is plugged into one of the ports. The background is dark and out of focus.

Network Connectivity

## Fiber Solutions

Fiber Solutions for Data Centers  
and Enterprise-Level Organizations

**HellermannTyton**

# why HellermannTyton



HellermannTyton is a leading global manufacturer of network cabling solutions which connect, manage and identify cable and components. Located in 34 countries, HellermannTyton utilizes global resources channeled to local implementations to offer its customers an integrated approach to design, operation and delivery. Flexibility, agility and the ability to create value-added, market-driven results are the hallmarks of every HellermannTyton company across the world.



## Custom Solutions

Because each project has different requirements there may be a need for custom products and solutions. HellermannTyton is adept at identifying customized solutions for our customers. Our skilled sales and customer service team members are happy to discuss your needs, recommend options and even supply samples. Our goal is to provide our customers with the best solutions based on their unique needs.



## Responsive Service

HellermannTyton is responsive to provide you with the support and service you need for your network cabling project, no matter the scale. We can assist with every step of the process and always lend the support required for meeting mission critical deadlines. Our knowledge and experience provide you with peace of mind so you can focus time and effort on other challenges.



## Environmental Consciousness

At HellermannTyton, we work hard to be a greener company. In addition to achieving ISO 14001 accreditation for environmental management, we continually assess our performance as a business and the impact our business has on the environment.



## Performance Driven

As the line transmission rates are increased from 10 Gbps to 40 Gbps to 100 Gbps, HellermannTyton is ready to support the physical layer connectivity with high performance, multi-lane distribution of OM3 and OM4, as well as OS1/2 fiber optic components, that enable next generation fiber optic telecommunications and data communications networks.



# optical fiber



The digital generation is expanding exponentially. To meet ever-increasing user demands, optimum data infrastructure and management are crucial. While traditional copper cable is prevalent in the data network, fiber optic cable is becoming more widely used in a number of applications. The goal of most network designers is to design and build a system that will last 10 years. When anticipating future network needs, the use of optical fiber should be a consideration.

## Why Optical Fiber?

There are some major advantages to using fiber optic cable over traditional copper cable. With its immunity to electromagnetic interference (EMI) and radio frequency interference (RFI), fiber optic cable is becoming the desired infrastructure for data transmission. Fiber cables can transport more data, and do so over greater distances, than copper cables. While standard copper cables are limited to the transmission distance of 295 feet of installed cable, fiber has the ability to transport signals across significant distances, and has earned a place in most network applications. In fact, fiber optic cable now runs down many residential streets and routes directly into many homes. In an enterprise project, fiber solutions provide an excellent backbone for high speed transmission of data.

The applications for fiber are extensive. Fiber is used to link together networks between office buildings, link dorms to other buildings on a college campus, and increasingly, to provide residential customers with cable television and telephone services from a central office. In most commercial buildings, fiber optic cable is used to join the main distribution frame (MDF), where network servers reside, to telecommunications rooms (TR) throughout the building.



Fiber optic cable is also ideal for installations in which space is limited. One small fiber optic cable can replace hundreds of copper communication cables. Optical fibers are ideally suited for carrying digital information, which is especially useful in computer networks.

*One way to categorize the different types of computer network designs is by their scope or scale. The datacom industry refers to nearly every type of design as some kind of area network. Common examples of area network types are:*

### **SAN**

#### **Storage Area Network**

A secure high-speed data transfer network that provides access to consolidated block-level storage. A SAN makes a network of storage devices accessible to multiple servers.

### **LAN**

#### **Local Area Network**

A small network that is generally confined to a single floor or building.

### **MAN**

#### **Metropolitan Area Networks**

This typically covers a city with an area of between 3 and 30 miles in diameter.

### **WAN**

#### **Wide Area Networks**

This usually refers to a network which covers a large geographical area, potentially encompassing several cities or between continents.



# fiber choices

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## Choosing the Right Fiber Cable

Fiber optic cable is available in two types, multimode and single mode. Multimode fiber, as the name suggests, permits a signal to travel in multiple modes, or pathways, along the inside of the glass strand or core. It is available with a fiber core diameter of 62.5/125 microns ( $\mu\text{m}$ ) and a slightly smaller 50/125 $\mu\text{m}$ . Single mode fiber has a smaller core diameter, 8.3/125 – 9/125 $\mu\text{m}$ , than that of multimode fiber. A micron ( $\mu\text{m}$ ) is 1 millionth of a meter. For comparison, a human hair is about 100 $\mu\text{m}$  in diameter.

### Multimode Fiber

In a multimode fiber, the light is generated from an inexpensive light source called a vertical cavity surface-emitting laser, or VCSEL. VCSELs focus the light to a narrower band within the glass and operate at much higher speeds than traditional light-emitting diode (LED) technology. VCSEL technology allows transmission speeds between 1 Gbps and 10 Gbps, and does so relatively inexpensively, when used with the appropriate grade of fiber called laser optimized optical glass. This ultra-pure glass works exceptionally well carrying digital information at higher data rates, and permits the signals to travel farther. For example, the highest performing laser optimized 50/125 $\mu\text{m}$  glass fiber, known as OM4, can transmit data at 10 Gbps up to 550 meters. Multimode fiber is essential in local area network (LAN) applications.

### Single Mode Fiber

Single mode fiber has the ability to carry a signal for miles, which makes it ideal for larger telephone and cable television infrastructure installations. "Long haul" single mode applications require a much stronger laser to transmit data the greater distance. Single mode laser technology is significantly more expensive than multimode laser technology, and therefore is more often used in long distance runs where the ability to transmit data over a long distance is essential. Because of the cost implications, the use of single mode fiber tends to be limited to wide area network (WAN) or metropolitan area network (MAN) applications, linking locations within a region or city, and ultra large data centers.

## Cable Bandwidth and Performance

Because of evolving data speed demands, fiber cable technology is rapidly changing. Just a few years ago, a 62.5/125µm OM1 fiber was adequate for most data needs. Today, 50/125µm fiber is quickly becoming the new standard, and for good reasons. A 50/125µm fiber can have up to 20 times the bandwidth (data throughput capacity) of a 62.5/125µm fiber. For identification purposes, multimode fiber and single mode fiber is often referred to by its performance level or bandwidth capability as identified by the International Organization of Standards (ISO) and the International Electrotechnical Committee (IEC). Multimode fiber cables are rated OM1 to OM4, with OM1 having the lowest bandwidth capability. 62.5/125µm multimode is referred to as OM1. Higher capacity 50/125µm multimode fiber cable is currently available in OM2, OM3 and OM4 - OM4 having the greatest bandwidth capability.

50/125µm OM3 fiber is designed to accommodate 10 Gb Ethernet up to 300 meters, while OM4 can accommodate 10 Gb Ethernet up to 550 meters. Therefore, many users are now choosing OM3 and OM4 over the other fiber types. Today, nearly 80% of 50/125µm fiber sold is OM3 or OM4. If you require higher data rates, or plan on upgrading your network in the near future, laser optimized 50/125µm (OM3 or OM4) multimode fiber would be the logical choice.

Optic Cable Speed/Distance Capabilities					
Transmission Standards	100 Mb Ethernet	1 Gb Ethernet	10 Gb Ethernet	40 Gb Ethernet	100 Gb Ethernet
OM1 (62.5/125)	up to 2000 meters	275 meters	33 meters	Not supported	Not supported
OM2 (50/125)	up to 2000 meters	550 meters	82 meters	Not supported	Not supported
OM3 (50/125)	up to 2000 meters	550 meters	300 meters	100 meters	100 meters
OM4 (50/125)	up to 2000 meters	1000 meters	550 meters	150 meters	150 meters
OS1/2 (9/125)	Up to 40 kilometers				

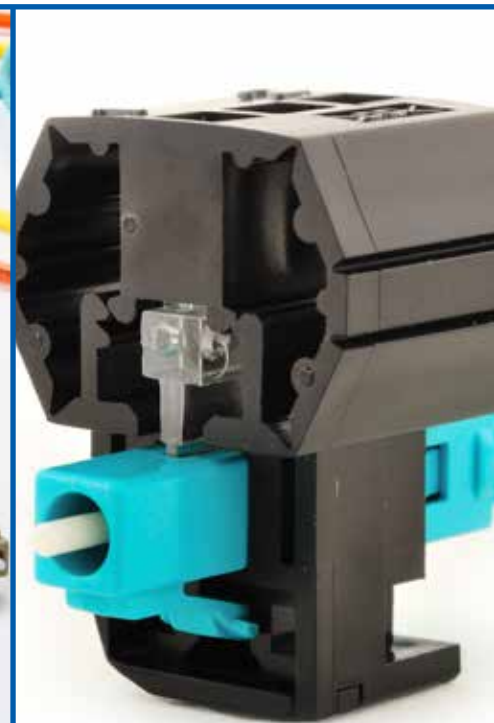
Selecting appropriate cable depends on the type of installation and the speed of data required. For backbone applications connecting buildings on a large campus or over long distances, single mode fiber (OS1 or OS2) is a necessity. However, multimode fiber can achieve significant distances across many levels of performance. For a typical enterprise-level project, multimode fiber will satisfy most requirements. The chart above provides fiber cable distance capabilities for each performance level.



# HelaNet™ Fiber Solutions

## The HelaNet™ Fiber Solution from HellermannTyton

HellermannTyton's HelaNet fiber optic connectivity products provide users with the essential components necessary for field terminated fiber applications. Choose from a full array of enclosures, adapter panels, jumpers, trunks, standard connectors, keyed LC solutions, inserts and tools. Like our RapidNet® pre-terminated fiber solutions, HelaNet products offer high quality, reliability and exceptional performance. HelaNet products are intended to meet the growing demands of data networks, by maximizing space, efficiency and organization.







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# enclosures

## Fiber Enclosures

HellermannTyton wall mount and rack mount fiber enclosures provide durable protection for direct termination and splice of LAN applications. Capable of supporting up to 1,728 fibers, our enclosures are equipped with cable management and routing accessories to control cable slack, limit bend radius and add strain relief control. Optional splice trays and sleeves are available for added convenience and versatility. HellermannTyton offers wall mount and rack mount fiber enclosures that work in a standard LGX footprint.

## Wall Mount Enclosures

HellermannTyton wall mount fiber enclosures provide a secure termination solution for applications requiring fully enclosed and/or lockable enclosures. Wall mount enclosures accommodate up to 144 fibers, mount easily and provide easy cable routing access behind the enclosure. Choose from enclosure options to accommodate 1, 2 or 4 standard LGX adapter panels.



### APPLICATIONS:

- Entrance rooms
- Telecommunications rooms
- Consolidation points

### FEATURES AND BENEFITS:

- Durable stainless steel construction for long life
- Cable management spools for effective slack management
- Bend radius control to minimize hand and wrist strain
- Smooth grommet entry to protect cables from damage
- Locking tab for added security
- Meet ANSI/TIA/EIA 568-B standards

Article No.	Part No.	Type	Description	Height (in.)	Width (in.)	Depth (in.)	Pkg Qty
904-00717	<b>FEWM6</b>	FEWM	Wall Mount Fiber Enclosure - Unloaded Accepts 1 Adapter Panel, Black	7.0	6.5	1.5	1
855-04207	<b>FEWM12</b>	FEWM	Wall Mount Fiber Enclosure - Unloaded Accepts 2 Adapter Panels, 1 Splice Tray, Black	15.63	13.0	2.1	1
855-04208	<b>FEWM24</b>	FEWM	Wall Mount Fiber Enclosure - Unloaded Accepts 4 Adapter Panels, 2 Splice Trays, Black	15.63	15.0	3.5	1

Use **Part No.** for ordering and **Type** for specification purposes.

## Rack Mount Enclosures

HellermannTyton rack mount enclosures are durable and support up to 1728 fibers. Rack enclosures work with standard 19" and 23" equipment racks and are designed to work with standard LGX adapter panels. HellermannTyton offers standard and GSA compliant rack mount enclosures. GSA compliant enclosures meet Trade Agreement Act (TAA) requirements, making them acceptable for use in US government projects.



### APPLICATIONS:

- CATV
- Data centers
- Telecommunications rooms
- LAN, WAN and SAN
- Fiber-to-the-x (FTTx)
- Industrial control systems

### FEATURES AND BENEFITS:

- Removable front and rear covers provide easy access to cables
- Slide-out tray with easy-to-grip raised edge
- Cable management spools for effective slack management
- Optional splice trays to assist with cable splicing
- Panel positioning for easier patch cord access
- Round edge plastic fiber saddles for easier patch cord routing
- Meet ANSI/TIA/EIA 568-B standards

Article No.	Part No.	Type	Description	Height (in.)	Width (in.)	Depth (in.)	Pkg Qty
<b>STANDARD RACK MOUNT ENCLOSURES</b>							
904-00686	<b>FERM1U</b>	FERM	Rack Mount Fiber Enclosure-Unloaded Accepts 3 Adapter Panels, 1U, BK	1.75	17.0	14.0	1
904-00687	<b>FERM2U</b>	FERM	Rack Mount Fiber Enclosure-Unloaded Accepts 6 Adapter Panels, 2U, BK	3.5	17.0	14.0	1
904-00688	<b>FERM4U</b>	FERM	Rack Mount Fiber Enclosure-Unloaded Accepts 12 Adapter Panels, 4U, BK	7.0	17.0	17.0	1
904-00689	<b>FERM1UV</b>	FERM	Rack Mount Fiber Enclosure-Unloaded, No Door Accepts 3 Adapter Panels, 1U, BK	1.75	19.0	8.15	1
<b>GSA COMPLIANT RACK MOUNT ENCLOSURES</b>							
855-49200	<b>FERM18S</b>	FERM18S	Rack Mount Fiber Enclosure-Unloaded Accepts 3 Adapter Panels, 1U, BK	1.75	17.0	12.14	1
855-49201	<b>FERM36S</b>	FERM36S	Rack Mount Fiber Enclosure-Unloaded Accepts 6 Adapter Panels, 2U, BK	3.5	17.0	14.0	1

Use **Part No.** for ordering and **Type** for specification purposes.



# accessories

## Enclosure Accessories

For maximum organization, efficiency and utility, HellermannTyton offers splice sleeves and trays to assist in cable splicing applications. Fiber splice trays are available to accommodate 12 or 24 splices. Each tray provides space for mounting fiber splice protectors and excess fiber storage. Available in different shrink diameters, splice sleeves are constructed with a stainless steel inner tube and a polyolefin outer tube. Sleeves are heat bonded to ensure tubes maintain perfect alignment during shipping, handling and shrinking. Cable management spools organize cable slack.



FESS2560



FEST12



FECMS

Article No.	Part No.	Type	Description	Length (in.)	Width (in.)	Height (in.)	Pkg Qty
<b>SPLICE TRAYS</b>							
904-00711	<b>FEST12</b>	FECM	12 Fiber Fusion Splice Tray, Clear Cover, Black	7.0	4.0	.31	1
904-00713	<b>FEST24ST</b>	FECM	24 Fiber Fusion Splice Tray, Stackable, Black	7.0	5.0	.59	1

Trays are compatible with all rack mount enclosures. For wall mount enclosures, select FEST12. Use **Part No.** for ordering and **Type** for specification purposes.

Article No.	Part No.	Type	Description	Pkg Qty
<b>SPLICE SLEEVES</b>				
904-00704	<b>FESS3060</b>	FECM	Splice Sleeve, 3.0mm OD, 60mm long	100
904-00705	<b>FESS2525</b>	FECM	Splice Sleeve, 2.5mm OD, 25mm long	100
904-00706	<b>FESS2540</b>	FECM	Splice Sleeve, 2.5mm OD, 40mm long	100
904-00707	<b>FESS2560</b>	FECM	Splice Sleeve, 2.5mm OD, 60mm long	100
904-00709	<b>FESS2040</b>	FECM	Splice Sleeve, 2.0mm OD, 40mm long	100
904-00710	<b>FESS2060</b>	FECM	Splice Sleeve, 2.0mm OD, 60mm long	100
<b>CABLE MANAGEMENT SPOOLS</b>				
904-00714	<b>FECMS</b>	FECM	Cable Management Spools, Tan	2

For enhanced cable management, spools can be added to the FERM4U rack mount enclosure. Use **Part No.** for ordering and **Type** for specification purposes.

## Fiber Inserts

Fiber inserts provide the final connection when using fiber as a digital loop carrier, or fiber-to-the-x solution. HellermannTyton offers a variety of fiber inserts with industry standard LC, SC, ST and MTRJ connections that can be used with HellermannTyton standard flush wall plates.



### FEATURES AND BENEFITS:

- All single mode, single mode angled and multimode 10 Gb inserts feature durable zirconia ceramic ferrules, which allow for frequent, repeated insertion
- All standard multimode inserts feature phosphor bronze ferrules, which provide an affordable insert option
- Color coded for easy fiber selection
- Meet ANSI/TIA/EIA 568-B standards
- Meet ANSI/TIA/EIA 604 (FOCIS) connector interface requirements

Article No.	Part No.	Type	Description	Color	Fiber Type	Pkg Qty	Carton Qty
<b>LC</b>							
904-00757	<b>LCMMINSERT-FW</b>	LCINSERT	LC Multimode Fiber Insert	Beige, Office White	Multimode	1	25
904-00758	<b>LCMMINSERT-I</b>	LCINSERT	LC Multimode Fiber Insert	Beige, Ivory	Multimode	1	25
904-00759	<b>LCMMINSERT-W</b>	LCINSERT	LC Multimode Fiber Insert	Beige, White	Multimode	1	25
904-00743	<b>LCSMINSERT-FW</b>	LCINSERT	LC Single mode Fiber Insert	Blue, Office White	Single Mode	1	25
904-00744	<b>LCSMINSERT-I</b>	LCINSERT	LC Single mode Fiber Insert	Blue, Ivory	Single Mode	1	25
904-00745	<b>LCSMINSERT-W</b>	LCINSERT	LC Single mode Fiber Insert	Blue, White	Single Mode	1	25
<b>SC</b>							
904-00749	<b>SCMMINSERT-FW</b>	SCINSERT	SC Multimode Fiber Insert	Beige, Office White	Multimode	1	25
904-00750	<b>SCMMINSERT-I</b>	SCINSERT	SC Multimode Fiber Insert	Beige, Ivory	Multimode	1	25
904-00751	<b>SCMMINSERT-W</b>	SCINSERT	SC Multimode Fiber Insert	Beige, White	Multimode	1	25
904-00754	<b>SCSMINSERT-FW</b>	SCINSERT	SC Single Mode Fiber Insert	Blue, Office White	Single Mode	1	25
904-00755	<b>SCSMINSERT-I</b>	SCINSERT	SC Single Mode Fiber Insert	Blue, Ivory	Single Mode	1	25
904-00756	<b>SCSMINSERT-W</b>	SCINSERT	SC Single Mode Fiber Insert	Blue, White	Single Mode	1	25
904-00746	<b>SCSMINSERT-FW</b>	SCINSERT	SC Single Mode Fiber Insert	Green, Office White	Single Mode Angled	1	25
904-00747	<b>SCSMINSERT-I</b>	SCINSERT	SC Single Mode Fiber Insert	Green, Ivory	Single Mode Angled	1	25
904-00748	<b>SCSMINSERT-W</b>	SCINSERT	SC Single Mode Fiber Insert	Green, White	Single Mode Angled	1	25
<b>ST</b>							
854-44227	<b>FIBERINSERT-FW</b>	FIBERINSERT	ST Fiber Insert	Office White	N/A	1	25
854-44228	<b>FIBERINSERT-I</b>	FIBERINSERT	ST Fiber Insert	Ivory	N/A	1	25
854-44229	<b>FIBERINSERT-W</b>	FIBERINSERT	ST Fiber Insert	White	N/A	1	25
<b>MTRJ</b>							
854-44241	<b>MTRJINSERT-FW</b>	MTRJINSERT	MTRJ Fiber Insert	Office White	N/A	1	25
854-44242	<b>MTRJINSERT-I</b>	MTRJINSERT	MTRJ Fiber Insert	Ivory	N/A	1	25
854-44243	<b>MTRJINSERT-W</b>	MTRJINSERT	MTRJ Fiber Insert	White	N/A	1	25

Phosphor bronze ferrules for MM; zirconia ceramic ferrules for SM, SM APC and MM 10 Gb. Use **Part No.** for ordering and **Type** for specification purposes.

# adapter panels

## Fiber Adapter Panels

For customized wall mount and rack mount fiber optic enclosures, HellermannTyton offers panel options featuring a variety of adapters to suit different preferences and applications. In addition to adapter panels with standard LC, SC, ST, MTP and MTRJ connections, HellermannTyton also offers custom solutions. Our adapter panels include options to accommodate OS1/2 in both standard and angled versions, as well as 62.5/125µm OM1, 50/125µm OM2 and 50/125µm 10 Gb OM3/4. HellermannTyton adapter panels are made with zirconia ceramic or phosphor bronze ferrules for minimal insertion loss contribution. Zirconia ceramic ferrules provided excellent durability and are an ideal choice for use in laser optimized multimode and single mode applications. HellermannTyton offers both standard and GSA compliant adapter panels. GSA compliant panels meet Trade Agreement Act (TAA) requirements, making them acceptable for use in US government projects.



VFAP6DMMLC



VFAP6DSMASCZ



VFAP6SMMST



FAP6MQMTP



FAP6MTRJ

### APPLICATIONS:

- Entrance rooms
- Telecommunications rooms
- Consolidation points
- CATV
- Data centers
- LAN, WAN and SAN
- Fiber-to-the-x (FTTx)
- Industrial control systems

### FEATURES AND BENEFITS:

- High performance zirconia ceramic ferrules allow for frequent, repeated insertion
- Standard LC, SC, ST, MTP and MTRJ connector options to suit specific applications
- “Snap lock” fixtures for easy and secure mounting
- Meet ANSI/TIA/EIA 568-B standards
- Meet ANSI/TIA/EIA 604 (FOCIS) connector interface requirements
- GSA compliant panels meet TAA requirements for use in government projects

### Adapter Panel Color Code Chart

Color	Mode
● Beige	Multimode
● Black	Multimode
● Aqua	10 Gb Multimode
● Blue	Single Mode
● Green	Single Mode Angled



Article No.	Part No.	Type	Description	Color	Fiber Count	Ferrule Type	Pkg Qty
<b>STANDARD ADAPTER PANELS</b>							
<b>LC</b>							
904-00363	<b>VFAP6DMMMLC</b>	FAPLC	FT Adapter Panel Preloaded with 6 Duplex LC MM	Beige	12	PB	1
904-00366	<b>VFAP6QMMLC</b>	FAPLC	FT Adapter Panel Preloaded with 6 Quad LC MM	Beige	24	PB	1
904-00364	<b>VFAP6DMMQLCZ</b>	FAPLC	FT Adapter Panel Preloaded with 6 Duplex LC MM	Aqua	12	ZC	1
904-00367	<b>VFAP6QMMLCZ</b>	FAPLC	FT Adapter Panel Preloaded with 6 Quad LC MM	Aqua	24	ZC	1
904-00365	<b>VFAP6DSMLCZ</b>	FAPLC	FT Adapter Panel Preloaded with 6 Duplex LC SM	Blue	12	ZC	1
904-00368	<b>VFAP6QSMLCZ</b>	FAPLC	FT Adapter Panel Preloaded with 6 Quad LC SM	Blue	24	ZC	1
<b>SC</b>							
904-00373	<b>VFAP6SMMSC</b>	FAPSC	FT Adapter Panel Preloaded with 6 Simplex SC MM	Beige	6	PB	1
904-00369	<b>VFAP6DMMSC</b>	FAPSC	FT Adapter Panel Preloaded with 6 Duplex SC MM	Beige	12	PB	1
904-00374	<b>VFAP6SMMQSCZ</b>	FAPSC	FT Adapter Panel Preloaded with 6 Simplex SC MM	Aqua	6	ZC	1
904-00370	<b>VFAP6DMMQSCZ</b>	FAPSC	FT Adapter Panel Preloaded with 6 Duplex SC MM	Aqua	12	ZC	1
904-00375	<b>VFAP6SSMSCZ</b>	FAPSC	FT Adapter Panel Preloaded with 6 Simplex SC SM	Blue	6	ZC	1
904-00371	<b>VFAP6DSMSCZ</b>	FAPSC	FT Adapter Panel Preloaded with 6 Duplex SC SM	Blue	12	ZC	1
904-00376	<b>VFAP6SSMASCZ</b>	FAPSC	FT Adapter Panel Preloaded with 6 Simplex SC SMA	Green	6	ZC	1
904-00372	<b>VFAP6DSMASCZ</b>	FAPSC	FT Adapter Panel Preloaded with 6 Duplex SC SMA	Green	12	ZC	1
<b>ST</b>							
904-00377	<b>VFAP6SMMST</b>	FAPST	FT Adapter Panel Preloaded with 6 ST MM	N/A	6	PB	1
904-00378	<b>VFAP6SSMSTZ</b>	FAPST	FT Adapter Panel Preloaded with 6 ST SM	N/A	6	ZC	1
904-00379	<b>VFAP12SMMST</b>	FAPST	FT Adapter Panel Preloaded with 12 ST MM	N/A	12	PB	1
904-00380	<b>VFAP12SSMSTZ</b>	FAPST	FT Adapter Panel Preloaded with 12 ST SM	N/A	12	ZC	1
<b>GSA COMPLIANT ADAPTER PANELS</b>							
855-04219	<b>FAPB</b>	FAPB	Blank adapter panel	N/A	N/A	N/A	1
<b>LC</b>							
855-04212	<b>FAP6DMMMLC</b>	FAPLC	Adapter Panel Preloaded with 6 Duplex LC MM	Beige	12	PB	1
855-24200	<b>FAP8DMMMLC</b>	FAPLC	Adapter Panel Preloaded with 8 Duplex LC MM	Beige	16	PB	1
855-04228	<b>FAP12DMMMLC</b>	FAPLC	Adapter Panel Preloaded with 6 Quad LC MM	Beige	24	PB	1
855-04230	<b>FAP6DMMQLC</b>	FAPLC	Adapter Panel Preloaded with 6 Duplex LC MM	Aqua	12	PB	1
855-04231	<b>FAP12DMMQLC</b>	FAPLC	Adapter Panel Preloaded with 6 Quad LC MM	Aqua	24	PB	1
855-04225	<b>FAP6DSMLC</b>	FAPLC	Adapter Panel Preloaded with 6 Duplex LC SM	Blue	12	ZC	1
855-04226	<b>FAP12DSMLC</b>	FAPLC	Adapter Panel Preloaded with 6 Quad LC SM	Blue	24	ZC	1
<b>SC</b>							
855-04211	<b>FAP3DMMSC</b>	FAPSC	Adapter Panel Preloaded with 3 Duplex SC MM	Beige	6	PB	1
855-04216	<b>FAP6SMMSC</b>	FAPSC	Adapter Panel Preloaded with 6 Simplex SC MM	Beige	6	PB	1
855-04217	<b>FAP8SMMSC</b>	FAPSC	Adapter Panel Preloaded with 8 Simplex SC MM	Beige	8	PB	1
855-04213	<b>FAP6DMMSC</b>	FAPSC	Adapter Panel Preloaded with 6 Duplex SC MM	Beige	12	PB	1
855-04232	<b>FAP6DMMQSCZ</b>	FAPSC	Adapter Panel Preloaded with 6 Duplex SC MM	Aqua	12	PB	1
855-04224	<b>FAP6SSMSC</b>	FAPSC	Adapter Panel Preloaded with 6 Simplex SC SM	Blue	6	ZC	1
855-04234	<b>FAP6DSMSC</b>	FAPSC	Adapter Panel Preloaded with 6 Duplex LC SM	Blue	12	ZC	1
<b>ST</b>							
855-04218	<b>FAP6MMST</b>	FAPST	Adapter Panel Preloaded with 6 ST MM	N/A	6	PB	1
855-04214	<b>FAP8SMMST</b>	FAPST	Adapter Panel Preloaded with 8 ST MM	N/A	8	PB	1
<b>MTP</b>							
855-04229	<b>FAP6MMTP</b>	FAPMTP	Adapter Panel Preloaded with 6 MTP MM	Black	72/144	N/A	1
855-04233	<b>FAP6MQMTP</b>	FAPMTP	Adapter Panel Preloaded with 6 MTP MM	Aqua	72/144	N/A	1
855-04227	<b>FAP6SMTP</b>	FAPMTP	Adapter Panel Preloaded with 6 MTP SM	Blue	72/144	N/A	1
<b>MTRJ</b>							
855-04215	<b>FAP6MTRJ</b>	FAPMTRJ	Adapter Panel Preloaded with 6 MTRJ	N/A	6	PB	1

**PB** - Bronze phosphor ferrules, **ZC** - Zirconia ceramic ferrules.  
Use **Part No.** for ordering and **Type** for specification purposes.

# jumpers

## Fiber Optic Jumpers

For fiber patching requirements, HellermannTyton offers fiber optic jumpers in various lengths with a wide variety of connector configurations. HellermannTyton offers fiber jumpers in two types – standard and GSA compliant. Our standard jumpers combine quality with value, meeting all ANSI/TIA/EIA fiber optic cable requirements while allowing installers to maximize project budgets. In addition to meeting industry standards, GSA compliant jumpers meet Trade Agreement Act (TAA) requirements, making them acceptable for use in US government contract projects.



### APPLICATIONS:

- Computer work station to outlet and fiber optic patch panels
- Optical cross connect distribution center

### FEATURES AND BENEFITS:

- Pre-radiused zirconia ceramic ferrules for precision alignment
- Industry standard LC, SC, ST or MTRJ connectors to suit specific applications
- Available in 1-5 meter lengths
- 3mm cordage
- Color coded for easy identification
- Individually quality tested for insertion and return loss
- Meet ANSI/TIA/EIA 568-B standards
- Meet ANSI/TIA/EIA 604 (FOCIS) connector interface requirements

### Technical Information

Jumper Type	Insertion Loss		Return Loss Typical
	Typical	Max	
Standard MM PC	≤ .2dB	≤ .3dB	≤ -25dB
Standard SM UPC	≤ .22dB	≤ .3dB	≤ -57dB
Standard SM APC	≤ .22dB	≤ .3dB	≤ -68dB
GSA Compliant MM	≤ .35dB	≤ .5dB	≤ -25dB
GSA Compliant SM UPC	≤ .2dB	≤ .35dB	≤ -58dB
GSA Compliant SM APC	≤ .25dB	≤ .4dB	≤ -70dB

### Cable Color Code Chart

Color	Mode
Yellow	Single Mode OS1/2
Orange	Multimode OM1/2
Aqua	10 Gb Multimode (OM3)

Article No.	Part No.	Type	Description	Color	Fiber Type	Length (m)	Pkg Qty
<b>STANDARD JUMPERS</b>							
<b>LC to LC</b>							
904-00551	<b>VFA1LCLCOM1</b>	FALCLC	FT LC - LC Duplex OM1 Fiber Assembly	Orange	OM1	1	1
904-00552	<b>VFA2LCLCOM1</b>	FALCLC	FT LC - LC Duplex OM1 Fiber Assembly	Orange	OM1	2	1
904-00493	<b>VFA3LCLCOM1</b>	FALCLC	FT LC - LC Duplex OM1 Fiber Assembly	Orange	OM1	3	1
904-00553	<b>VFA4LCLCOM1</b>	FALCLC	FT LC - LC Duplex OM1 Fiber Assembly	Orange	OM1	4	1
904-00554	<b>VFA5LCLCOM1</b>	FALCLC	FT LC - LC Duplex OM1 Fiber Assembly	Orange	OM1	5	1
904-00491	<b>VFA1LCLCOM2</b>	FALCLC	FT LC - LC Duplex OM2 Fiber Assembly	Orange	OM2	1	1
904-00492	<b>VFA2LCLCOM2</b>	FALCLC	FT LC - LC Duplex OM2 Fiber Assembly	Orange	OM2	2	1
904-00494	<b>VFA3LCLCOM2</b>	FALCLC	FT LC - LC Duplex OM2 Fiber Assembly	Orange	OM2	3	1
904-00495	<b>VFA5LCLCOM2</b>	FALCLC	FT LC - LC Duplex OM2 Fiber Assembly	Orange	OM2	5	1
904-00496	<b>VFA4LCLCOM2</b>	FALCLC	FT LC - LC Duplex OM2 Fiber Assembly	Orange	OM2	4	1
904-00462	<b>VFA1LCLCOM3</b>	FALCLC	FT LC - LC Duplex OM3 Fiber Assembly	Aqua	OM3	1	1
904-00463	<b>VFA2LCLCOM3</b>	FALCLC	FT LC - LC Duplex OM3 Fiber Assembly	Aqua	OM3	2	1
904-00464	<b>VFA3LCLCOM3</b>	FALCLC	FT LC - LC Duplex OM3 Fiber Assembly	Aqua	OM3	3	1
904-00465	<b>VFA4LCLCOM3</b>	FALCLC	FT LC - LC Duplex OM3 Fiber Assembly	Aqua	OM3	4	1
904-00466	<b>VFA5LCLCOM3</b>	FALCLC	FT LC - LC Duplex OM3 Fiber Assembly	Aqua	OM3	5	1
904-00599	<b>VFA1LCLCOS2</b>	FALCLC	FT LC - LC Duplex OS2 Fiber Assembly	Yellow	OS2	1	1
904-00590	<b>VFA2LCLCOS2</b>	FALCLC	FT LC - LC Duplex OS2 Fiber Assembly	Yellow	OS2	2	1
904-00591	<b>VFA3LCLCOS2</b>	FALCLC	FT LC - LC Duplex OS2 Fiber Assembly	Yellow	OS2	3	1
904-00592	<b>VFA4LCLCOS2</b>	FALCLC	FT LC - LC Duplex OS2 Fiber Assembly	Yellow	OS2	4	1
904-00593	<b>VFA5LCLCOS2</b>	FALCLC	FT LC - LC Duplex OS2 Fiber Assembly	Yellow	OS2	5	1
<b>LC to SC</b>							
904-00555	<b>VFA1LCSCOM1</b>	FALCSC	FT LC - SC Duplex OM1 Fiber Assembly	Orange	OM1	1	1
904-00557	<b>VFA2LCSCOM1</b>	FALCSC	FT LC - SC Duplex OM1 Fiber Assembly	Orange	OM1	2	1
904-00558	<b>VFA3LCSCOM1</b>	FALCSC	FT LC - SC Duplex OM1 Fiber Assembly	Orange	OM1	3	1
904-00559	<b>VFA4LCSCOM1</b>	FALCSC	FT LC - SC Duplex OM1 Fiber Assembly	Orange	OM1	4	1
904-00560	<b>VFA5LCSCOM1</b>	FALCSC	FT LC - SC Duplex OM1 Fiber Assembly	Orange	OM1	5	1
904-00486	<b>VFA1LCSCOM2</b>	FALCSC	FT LC - SC Duplex OM2 Fiber Assembly	Orange	OM2	1	1
904-00487	<b>VFA2LCSCOM2</b>	FALCSC	FT LC - SC Duplex OM2 Fiber Assembly	Orange	OM2	2	1
904-00488	<b>VFA3LCSCOM2</b>	FALCSC	FT LC - SC Duplex OM2 Fiber Assembly	Orange	OM2	3	1
904-00489	<b>VFA4LCSCOM2</b>	FALCSC	FT LC - SC Duplex OM2 Fiber Assembly	Orange	OM2	4	1
904-00490	<b>VFA5LCSCOM2</b>	FALCSC	FT LC - SC Duplex OM2 Fiber Assembly	Orange	OM2	5	1
904-00467	<b>VFA1LCSCOM3</b>	FALCSC	FT LC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	1	1
904-00468	<b>VFA2LCSCOM3</b>	FALCSC	FT LC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	2	1
904-00670	<b>VFA3LCSCOM3</b>	FALCSC	FT LC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	3	1
904-00671	<b>VFA4LCSCOM3</b>	FALCSC	FT LC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	4	1
904-00472	<b>VFA5LCSCOM3</b>	FALCSC	FT LC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	5	1
904-00594	<b>VFA1LCSCOS2</b>	FALCSC	FT LC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	1	1
904-00595	<b>VFA2LCSCOS2</b>	FALCSC	FT LC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	2	1
904-00596	<b>VFA3LCSCOS2</b>	FALCSC	FT LC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	3	1
904-00597	<b>VFA4LCSCOS2</b>	FALCSC	FT LC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	4	1
904-00598	<b>VFA5LCSCOS2</b>	FALCSC	FT LC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	5	1

Use **Part No.** for ordering and **Type** for specification purposes.



Article No.	Part No.	Type	Description	Color	Fiber Type	Length (m)	Pkg Qty
<b>STANDARD JUMPERS</b>							
<b>LC to ST</b>							
904-00561	<b>VFA1LCSTOM1</b>	FALCST	FT LC - ST Duplex OM1 Fiber Assembly	Orange	OM1	1	1
904-00562	<b>VFA2LCSTOM1</b>	FALCST	FT LC - ST Duplex OM1 Fiber Assembly	Orange	OM1	2	1
904-00563	<b>VFA3LCSTOM1</b>	FALCST	FT LC - ST Duplex OM1 Fiber Assembly	Orange	OM1	3	1
904-00564	<b>VFA4LCSTOM1</b>	FALCST	FT LC - ST Duplex OM1 Fiber Assembly	Orange	OM1	4	1
904-00565	<b>VFA5LCSTOM1</b>	FALCST	FT LC - ST Duplex OM1 Fiber Assembly	Orange	OM1	5	1
904-00498	<b>VFA1LCSTOM2</b>	FALCST	FT LC - ST Duplex OM2 Fiber Assembly	Orange	OM2	1	1
904-00499	<b>VFA2LCSTOM2</b>	FALCST	FT LC - ST Duplex OM2 Fiber Assembly	Orange	OM2	2	1
904-00543	<b>VFA3LCSTOM2</b>	FALCST	FT LC - ST Duplex OM2 Fiber Assembly	Orange	OM2	3	1
904-00544	<b>VFA4LCSTOM2</b>	FALCST	FT LC - ST Duplex OM2 Fiber Assembly	Orange	OM2	4	1
904-00545	<b>VFA5LCSTOM2</b>	FALCST	FT LC - ST Duplex OM2 Fiber Assembly	Orange	OM2	5	1
904-00470	<b>VFA1LCSTOM3</b>	FALCST	FT LC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	1	1
904-00471	<b>VFA2LCSTOM3</b>	FALCST	FT LC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	2	1
904-00473	<b>VFA3LCSTOM3</b>	FALCST	FT LC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	3	1
904-00474	<b>VFA4LCSTOM3</b>	FALCST	FT LC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	4	1
904-00475	<b>VFA5LCSTOM3</b>	FALCST	FT LC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	5	1
904-00600	<b>VFA1LCSTOS2</b>	FALCST	FT LC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	1	1
904-00601	<b>VFA2LCSTOS2</b>	FALCST	FT LC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	2	1
904-00602	<b>VFA3LCSTOS2</b>	FALCST	FT LC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	3	1
904-00603	<b>VFA4LCSTOS2</b>	FALCST	FT LC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	4	1
904-00604	<b>VFA5LCSTOS2</b>	FALCST	FT LC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	5	1
<b>LC to MTRJ</b>							
904-00566	<b>VFA1LCMTOM1</b>	FACLMT	FT LC - MTRJ Duplex OM1 Fiber Assembly	Orange	OM1	1	1
904-00567	<b>VFA2LCMTOM1</b>	FACLMT	FT LC - MTRJ Duplex OM1 Fiber Assembly	Orange	OM1	2	1
904-00568	<b>VFA3LCMTOM1</b>	FACLMT	FT LC - MTRJ Duplex OM1 Fiber Assembly	Orange	OM1	3	1
904-00569	<b>VFA4LCMTOM1</b>	FACLMT	FT LC - MTRJ Duplex OM1 Fiber Assembly	Orange	OM1	4	1
904-00570	<b>VFA5LCMTOM1</b>	FACLMT	FT LC - MTRJ Duplex OM1 Fiber Assembly	Orange	OM1	5	1
<b>ST to ST</b>							
904-00582	<b>VFA1STSTOM1</b>	FASTST	FT ST - ST Duplex OM1 Fiber Assembly	Orange	OM1	1	1
904-00586	<b>VFA2STSTOM1</b>	FASTST	FT ST - ST Duplex OM1 Fiber Assembly	Orange	OM1	2	1
904-00587	<b>VFA3STSTOM1</b>	FASTST	FT ST - ST Duplex OM1 Fiber Assembly	Orange	OM1	3	1
904-00588	<b>VFA4STSTOM1</b>	FASTST	FT ST - ST Duplex OM1 Fiber Assembly	Orange	OM1	4	1
904-00589	<b>VFA5STSTOM1</b>	FASTST	FT ST - ST Duplex OM1 Fiber Assembly	Orange	OM1	5	1
904-00616	<b>VFA1STSTOS2</b>	FASTST	FT ST - ST Duplex OS2 Fiber Assembly	Yellow	OS2	1	1
904-00617	<b>VFA2STSTOS2</b>	FASTST	FT ST - ST Duplex OS2 Fiber Assembly	Yellow	OS2	2	1
904-00618	<b>VFA3STSTOS2</b>	FASTST	FT ST - ST Duplex OS2 Fiber Assembly	Yellow	OS2	3	1
904-00619	<b>VFA4STSTOS2</b>	FASTST	FT ST - ST Duplex OS2 Fiber Assembly	Yellow	OS2	4	1
904-00620	<b>VFA5STSTOS2</b>	FASTST	FT ST - ST Duplex OS2 Fiber Assembly	Yellow	OS2	5	1

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Article No.	Part No.	Type	Description	Color	Fiber Type	Length (m)	Pkg Qty
<b>STANDARD JUMPERS</b>							
<b>SC to SC</b>							
904-00572	<b>VFA1SCSCOM1</b>	FASCSC	FT SC - SC Duplex OM1 Fiber Assembly	Orange	OM1	1	1
904-00573	<b>VFA2SCSCOM1</b>	FASCSC	FT SC - SC Duplex OM1 Fiber Assembly	Orange	OM1	2	1
904-00574	<b>VFA3SCSCOM1</b>	FASCSC	FT SC - SC Duplex OM1 Fiber Assembly	Orange	OM1	3	1
904-00575	<b>VFA4SCSCOM1</b>	FASCSC	FT SC - SC Duplex OM1 Fiber Assembly	Orange	OM1	4	1
904-00576	<b>VFA5SCSCOM1</b>	FASCSC	FT SC - SC Duplex OM1 Fiber Assembly	Orange	OM1	5	1
904-00546	<b>VFA1SCSCOM2</b>	FASCSC	FT SC - SC Duplex OM2 Fiber Assembly	Orange	OM2	1	1
904-00547	<b>VFA2SCSCOM2</b>	FASCSC	FT SC - SC Duplex OM2 Fiber Assembly	Orange	OM2	2	1
904-00548	<b>VFA3SCSCOM2</b>	FASCSC	FT SC - SC Duplex OM2 Fiber Assembly	Orange	OM2	3	1
904-00549	<b>VFA4SCSCOM2</b>	FASCSC	FT SC - SC Duplex OM2 Fiber Assembly	Orange	OM2	4	1
904-00550	<b>VFA5SCSCOM2</b>	FASCSC	FT SC - SC Duplex OM2 Fiber Assembly	Orange	OM2	5	1
904-00476	<b>VFA1SCSCOM3</b>	FASCSC	FT SC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	1	1
904-00477	<b>VFA2SCSCOM3</b>	FASCSC	FT SC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	2	1
904-00478	<b>VFA3SCSCOM3</b>	FASCSC	FT SC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	3	1
904-00479	<b>VFA4SCSCOM3</b>	FASCSC	FT SC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	4	1
904-00480	<b>VFA5SCSCOM3</b>	FASCSC	FT SC - SC Duplex OM3 Fiber Assembly	Aqua	OM3	5	1
904-00605	<b>VFA1SCSCOS2</b>	FASCSC	FT SC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	1	1
904-00606	<b>VFA2SCSCOS2</b>	FASCSC	FT SC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	2	1
904-00607	<b>VFA3SCSCOS2</b>	FASCSC	FT SC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	3	1
904-00608	<b>VFA4SCSCOS2</b>	FASCSC	FT SC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	4	1
904-00609	<b>VFA5SCSCOS2</b>	FASCSC	FT SC - SC Duplex OS2 Fiber Assembly	Yellow	OS2	5	1
<b>SC to ST</b>							
904-00577	<b>VFA1SCSTOM1</b>	FASCST	FT SC - ST Duplex OM1 Fiber Assembly	Orange	OM1	1	1
904-00578	<b>VFA2SCSTOM1</b>	FASCST	FT SC - ST Duplex OM1 Fiber Assembly	Orange	OM1	2	1
904-00579	<b>VFA3SCSTOM1</b>	FASCST	FT SC - ST Duplex OM1 Fiber Assembly	Orange	OM1	3	1
904-00580	<b>VFA4SCSTOM1</b>	FASCST	FT SC - ST Duplex OM1 Fiber Assembly	Orange	OM1	4	1
904-00581	<b>VFA5SCSTOM1</b>	FASCST	FT SC - ST Duplex OM1 Fiber Assembly	Orange	OM1	5	1
904-00481	<b>VFA1SCSTOM3</b>	FASCST	FT SC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	1	1
904-00482	<b>VFA2SCSTOM3</b>	FASCST	FT SC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	2	1
904-00483	<b>VFA3SCSTOM3</b>	FASCST	FT SC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	3	1
904-00484	<b>VFA4SCSTOM3</b>	FASCST	FT SC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	4	1
904-00485	<b>VFA5SCSTOM3</b>	FASCST	FT SC - ST Duplex OM3 Fiber Assembly	Aqua	OM3	5	1
904-00610	<b>VFA1SCSTOS2</b>	FASCST	FT SC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	1	1
904-00611	<b>VFA2SCSTOS2</b>	FASCST	FT SC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	2	1
904-00613	<b>VFA3SCSTOS2</b>	FASCST	FT SC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	3	1
904-00614	<b>VFA4SCSTOS2</b>	FASCST	FT SC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	4	1
904-00615	<b>VFA5SCSTOS2</b>	FASCST	FT SC - ST Duplex OS2 Fiber Assembly	Yellow	OS2	5	1

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Article No.	Part No.	Type	Description	Color	Fiber Type	Length (m)	Pkg Qty
<b>GSA COMPLIANT JUMPERS</b>							
<b>LC to LC</b>							
855-34200	<b>FA1LCLC</b>	FALCLC	LC - LC Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34213	<b>FA2LCLC</b>	FALCLC	LC - LC Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34226	<b>FA3LCLC</b>	FALCLC	LC - LC Duplex Multimode Fiber Assembly	Orange	OM1	3	1
904-00719	<b>FA1LCLC50</b>	FALCLC	LC - LC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	1	1
904-00720	<b>FA2LCLC50</b>	FALCLC	LC - LC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	2	1
904-00721	<b>FA3LCLC50</b>	FALCLC	LC - LC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	3	1
855-44200	<b>FA1LCLC10G</b>	FALCLC	LC - LC Duplex 10G Multimode Fiber Assembly	Aqua	OM3	1	1
855-44201	<b>FA2LCLC10G</b>	FALCLC	LC - LC Duplex 10G Multimode Fiber Assembly	Aqua	OM3	2	1
855-44202	<b>FA3LCLC10G</b>	FALCLC	LC - LC Duplex 10G Multimode Fiber Assembly	Aqua	OM3	3	1
855-34208	<b>FA1SMLCLC</b>	FASMLCLC	LC - LC Simplex Single Mode Fiber Assembly	Yellow	OS2	1	1
855-34221	<b>FA2SMLCLC</b>	FASMLCLC	LC - LC Simplex Single Mode Fiber Assembly	Yellow	OS2	2	1
855-34235	<b>FA3SMLCLC</b>	FASMLCLC	LC - LC Simplex Single Mode Fiber Assembly	Yellow	OS2	3	1
<b>LC to SC</b>							
855-34201	<b>FA1LCSC</b>	FALCSC	LC - SC Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34214	<b>FA2LCSC</b>	FALCSC	LC - SC Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34227	<b>FA3LCSC</b>	FALCSC	LC - SC Duplex Multimode Fiber Assembly	Orange	OM1	3	1
904-00722	<b>FA1LCSC50</b>	FALCSC	LC - SC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	1	1
904-00723	<b>FA2LCSC50</b>	FALCSC	LC - SC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	2	1
904-00724	<b>FA3LCSC50</b>	FALCSC	LC - SC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	3	1
904-00725	<b>FA1SMLCSC</b>	FASMLCSC	LC - SC Simplex Single Mode Fiber Assembly	Yellow	OS2	1	1
904-00726	<b>FA2SMLCSC</b>	FASMLCSC	LC - SC Simplex Single Mode Fiber Assembly	Yellow	OS2	2	1
904-00727	<b>FA3SMLCSC</b>	FASMLCSC	LC - SC Simplex Single Mode Fiber Assembly	Yellow	OS2	3	1
<b>LC to ST</b>							
855-34202	<b>FA1LCST</b>	FALCST	LC - ST Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34215	<b>FA2LCST</b>	FALCST	LC - ST Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34228	<b>FA3LCST</b>	FALCST	LC - ST Duplex Multimode Fiber Assembly	Orange	OM1	3	1
904-00728	<b>FA1LCST50</b>	FALCST	LC - ST Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	1	1
904-00729	<b>FA2LCST50</b>	FALCST	LC - ST Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	2	1
904-00730	<b>FA3LCST50</b>	FALCST	LC - ST Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	3	1
904-00731	<b>FA1LCST10G</b>	FALCST	LC - ST Duplex 10G Multimode Fiber Assembly	Aqua	OM3	1	1
904-00732	<b>FA2LCST10G</b>	FALCST	LC - ST Duplex 10G Multimode Fiber Assembly	Aqua	OM3	2	1
904-00733	<b>FA3LCST10G</b>	FALCST	LC - ST Duplex 10G Multimode Fiber Assembly	Aqua	OM3	3	1

Use **Part No.** for ordering and **Type** for specification purposes.



Article No.	Part No.	Type	Description	Color	Fiber Type	Length (m)	Pkg Qty
<b>GSA COMPLIANT JUMPERS</b>							
<b>SC to SC</b>							
855-34206	<b>FA1SCSC</b>	FASCSC	SC - SC Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34219	<b>FA2SCSC</b>	FASCSC	SC - SC Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34233	<b>FA3SCSC</b>	FASCSC	SC - SC Duplex Multimode Fiber Assembly	Orange	OM1	3	1
904-00734	<b>FA1SCSC50</b>	FASCSC	SC - SC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	1	1
904-00735	<b>FA2SCSC50</b>	FASCSC	SC - SC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	2	1
904-00736	<b>FA3SCSC50</b>	FASCSC	SC - SC Duplex 50 Micron Multimode Fiber Assembly	Orange	OM2	3	1
855-34209	<b>FA1SMSCSC</b>	FASMSCSC	SC - SC Simplex Single Mode Fiber Assembly	Yellow	OS2	1	1
855-34222	<b>FA2SMSCSC</b>	FASMSCSC	SC - SC Simplex Single Mode Fiber Assembly	Yellow	OS2	2	1
855-34236	<b>FA3SMSCSC</b>	FASMSCSC	SC - SC Simplex Single Mode Fiber Assembly	Yellow	OS2	3	1
<b>SC to ST</b>							
855-34211	<b>FA1STSC</b>	FASTSC	SC - ST Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34224	<b>FA2STSC</b>	FASTSC	SC - ST Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34238	<b>FA3STSC</b>	FASTSC	SC - ST Duplex Multimode Fiber Assembly	Orange	OM1	3	1
<b>ST to ST</b>							
855-34212	<b>FA1STST</b>	FASTST	ST - ST Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34225	<b>FA2STST</b>	FASTST	ST - ST Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34239	<b>FA3STST</b>	FASTST	ST - ST Duplex Multimode Fiber Assembly	Orange	OM1	3	1
855-34210	<b>FA1SMSTST</b>	FASMSTST	ST - ST Simplex Single Mode Fiber Assembly	Yellow	OS2	1	1
855-34223	<b>FA2SMSTST</b>	FASMSTST	ST - ST Simplex Single Mode Fiber Assembly	Yellow	OS2	2	1
855-34237	<b>FA3SMSTST</b>	FASMSTST	ST - ST Simplex Single Mode Fiber Assembly	Yellow	OS2	3	1
<b>MTRJ to SC</b>							
855-34204	<b>FA1MTSC</b>	FAMTSC	MTRJ - SC Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34217	<b>FA2MTSC</b>	FAMTSC	MTRJ - SC Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34230	<b>FA3MTSC</b>	FAMTSC	MTRJ - SC Duplex Multimode Fiber Assembly	Orange	OM1	3	1
<b>MTRJ to ST</b>							
855-34205	<b>FA1MTST</b>	FAMTST	MTRJ - ST Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34218	<b>FA2MTST</b>	FAMTST	MTRJ - ST Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34232	<b>FA3MTST</b>	FAMTST	MTRJ - ST Duplex Multimode Fiber Assembly	Orange	OM1	3	1
<b>MTRJ to MTRJ</b>							
855-34203	<b>FA1MTMT</b>	FAMTMT	MTRJ - MTRJ Duplex Multimode Fiber Assembly	Orange	OM1	1	1
855-34216	<b>FA2MTMT</b>	FAMTMT	MTRJ - MTRJ Duplex Multimode Fiber Assembly	Orange	OM1	2	1
855-34229	<b>FA3MTMT</b>	FAMTMT	MTRJ - MTRJ Duplex Multimode Fiber Assembly	Orange	OM1	3	1

Use **Part No.** for ordering and **Type** for specification purposes.

## Fiber Optic Trunk Cables

Available in single mode and multimode, HellermannTyton fiber optic trunks are built-to-order, to meet your specifications. Trunks are made with your choice of standard LC, ST, SC, MTRJ or MTP connectors with high quality zirconia ceramic ferrules. By using superior components and a proprietary ferrule polishing process, HellermannTyton manufactures trunk assemblies that meet the highest performance standards. Each assembly is individually tested for insertion loss and return loss. See the matrix below for information on how to configure your custom order.

### Part Numbering Schematic for Custom Fiber Optic Assemblies

FIXED	VARIABLE - SELECT FROM THE FOLLOWING									
PREFIX	CABLE COUNT	FIBER TYPE	CABLE TYPE	CABLE FLAME RATING	TERMINATION END 1	TERMINATION END 2	BREAKOUT LENGTH	POLARITY	PULLING KIT	LENGTH
F	A 12 B 24 C 48 D 72 E 96 F 144	A MM 62.5/125µm (OM1) B MM 50/125µm (OM2) C MM 50/125µm (OM3) D MM 50/125µm (OM4) E Single Mode F MM 50/125µm BIF (OM2) G MM 50/125µm BIF (OM3) H MM 50/125µm BIF (OM4) J Single Mode BIF	C Data Center Cable D Distribution	P Plenum R Riser	A MTP 12 Fiber B MTP 24 Fiber C MTP 12 Fiber (male) D MTP 24 Fiber (male)  E LC 2.0mm w/ clips F LC 3.0mm w/ clips G LC 900µm fanout H LC APC 2.0mm w/ clips J LC APC 3.0mm w/ clips K LC APC 900µm fanout  O SC 2.0mm w/ clips P SC 3.0mm w/ clips Q SC 900µm fanout R SC APC 2.0mm w/ clips S SC APC 3.0mm w/ clips T SC APC 900µm fanout  U ST 2.0mm V ST 3.0mm W ST 900µm fanout  X MTRJ 3.0mm	A MTP 12 Fiber B MTP 24 Fiber C MTP 12 Fiber (male) D MTP 24 Fiber (male)  E LC 2.0mm w/ clips F LC 3.0mm w/ clips G LC 900µm fanout H LC APC 2.0mm w/ clips J LC APC 3.0mm w/ clips K LC APC 900µm fanout  O SC 2.0mm w/ clips P SC 3.0mm w/ clips Q SC 900µm fanout R SC APC 2.0mm w/ clips S SC APC 3.0mm w/ clips T SC APC 900µm fanout  U ST 2.0mm V ST 3.0mm W ST 900µm fanout  X MTRJ 3.0mm	A .5m B 1m C 1.5m D 2m E No Breakout	S Straight Thru R Reversed P Pair Reversals	0 No Kit 1 1 Kit 2 2 Kits	10' - 999'







**Example Model Number: FBGCPDDAS115:**



F B G C P D D A S 1 15





















BIF - Bend insensitive fiber

#### Cable Color Code Chart

Color	Mode
Yellow	Single Mode OS1/2
Orange	Multimode OM1/2
Aqua	10 Gb Multimode (OM3)

Fiber Type				
				
<b>A</b> MM 62.5/125µm (OM1)	<b>B</b> MM 50/125µm (OM2)	<b>C</b> MM 50/125µm (OM3)	<b>D</b> MM 50/125µm (OM4)	<b>E</b> Single Mode
				
<b>F</b> MM 50/125µm BIF (OM2)	<b>G</b> MM 50/125µm BIF (OM3)	<b>H</b> MM 50/125µm BIF (OM4)	<b>J</b> Single Mode BIF	

Cable Type	
	
<b>C</b> Data Center Cable	<b>D</b> Distribution

Termination End				
				
<b>A</b> MTP 12 Fiber	<b>B</b> MTP 24 Fiber	<b>C</b> MTP 12 Fiber (male)	<b>D</b> MTP 24 Fiber (male)	<b>E</b> LC 2.0mm w/ clips
				
<b>F</b> LC 3.0mm w/ clips	<b>G</b> LC 900µm fanout	<b>H</b> LC APC 2.0mm w/ clips	<b>J</b> LC APC 3.0mm w/ clips	<b>K</b> LC APC 900µm fanout
				
<b>O</b> SC 2.0mm w/ clips	<b>P</b> SC 3.0mm w/ clips	<b>Q</b> SC 900µm fanout	<b>R</b> SC APC 2.0mm w/ clips	<b>S</b> SC APC 3.0mm w/ clips
				
<b>T</b> SC APC 900µm fanout	<b>U</b> ST 2.0mm	<b>V</b> ST 3.0mm	<b>W</b> ST 900µm fanout	<b>X</b> MTRJ 3.0mm



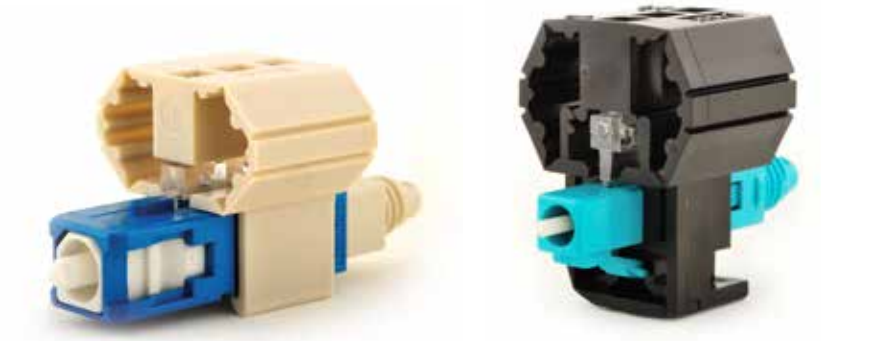
# connectors

## Fiber Connectors

HellermannTyton offers a variety of pre-polished and epoxy/anaerobic adhesive LC, SC and ST connectors for multimode and single mode fiber. All connector options provide high-quality ferrules for consistent ferrule-end-face geometry and excellent connections.

## Pre-polished Connectors

Pre-polished connectors provide high performance and eliminate the need for the time consuming task of hand polishing ferrules in the field. A factory pre-cleaved fiber stub and index-matching gel combine to offer an immediate low loss termination of single mode or multimode fiber.



Article No.	Part No.	Type	Description	Color	Pkg Qty
855-14208	<b>PFCLC</b>	PFCLC	Pre-polished LC 62.5/125 Multimode Fiber Connector	Beige	1
855-14207	<b>PFCLC50</b>	PFCLC	Pre-polished LC 50/125 Multimode Fiber Connector	Black	1
855-14209	<b>PFCLC10G</b>	PFCLC	Pre-polished LC 10G 50/125 Multimode Fiber Connector	Aqua	1
855-14206	<b>PFCLCSM</b>	PFCLC	Pre-polished LC Single Mode Fiber Connector	Blue	1
855-14215	<b>PFCS</b>	PFCS	Pre-polished SC 62.5/125 Multimode Fiber Connector	Beige	1
855-14214	<b>PFCS50</b>	PFCS	Pre-polished SC 50/125 Multimode Fiber Connector	Black	1
855-14217	<b>PFCS10G</b>	PFCS	Pre-polished SC 10G 50/125 Multimode Fiber Connector	Aqua	1
855-14216	<b>PFCSM</b>	PFCS	Pre-polished SC Single Mode Fiber Connector	Blue	1
855-14211	<b>PFCS</b>	PFCS	Pre-polished ST 62.5/125 Multimode Fiber Connector	Beige	1
855-14210	<b>PFCS50</b>	PFCS	Pre-polished ST 50/125 Multimode Fiber Connector	Black	1
855-14213	<b>PFCS10G</b>	PFCS	Pre-polished ST 10G 50/125 Multimode Fiber Connector	Aqua	1
855-14212	<b>PFCSM</b>	PFCS	Pre-polished ST Single Mode Fiber Connector	Blue	1

Use **Part No.** for ordering and **Type** for specification purposes.

### APPLICATIONS:

- Direct equipment termination
- Repair and replacement
- Fiber-to-the-x (FTTx)
- Equipment test leads

### FEATURES AND BENEFITS:

- Factory-polished zirconia ceramic ferrules for quick and reliable field installations
- Unique wedge clip retains connector shape for precision connection
- Easy to use – no epoxy, heat curing, polishing or special tools required
- Color coded for easy identification
- Meet ANSI/TIA/EIA 568-B standards
- Meet ANSI/TIA/EIA 604 (FOCIS) connector interface requirements

### TECHNICAL INFORMATION:

- Compatible with 250µm and 900µm optical fibers
- Work with 900µm, 2mm and 3mm cordage
- Insertion loss < 0.3dB
- Typical return loss 56.4dB
- Maximum return loss 45dB



## Epoxy/Anaerobic Connectors

Our epoxy/anaerobic connectors are designed for field or factory installation, using either epoxy or anaerobic adhesives. These connectors are made with pre-radiused zirconia ceramic ferrules to provide precision alignment and installation.

Epoxy adhesives provide affordable and reliable connections with lowest losses (less than 0.5dB). The epoxy can be allowed to set overnight or cured in an inexpensive oven. Anaerobic adhesives can be used with accelerators for faster curing.



### APPLICATIONS:

- Direct equipment termination
- Repair and replacement
- Fiber-to-the-x (FTTx)
- Equipment test leads

### FEATURES AND BENEFITS:

- Use with epoxy or anaerobic adhesives for different applications or user preference
- Pre-radiused zirconia ceramic ferrules provide precision installation
- Meet ANSI/TIA/EIA 568-B standards
- Meet ANSI/TIA/EIA 604 (FOCIS) connector interface requirements

Article No.	Part No.	Type	Description	Color	Pkg Qty
855-14200	<b>FCLC</b>	FCLC	LC Multimode Fiber Connector	Beige	1
855-14221	<b>FCLCSM</b>	FCLCSM	LC Single Mode Fiber Connector	Blue	1
855-14201	<b>FCSC</b>	FCSC	SC Multimode Fiber Connector	Beige	1
855-14202	<b>FCSCSM</b>	FCSCSM	SC Single Mode Fiber Connector	Blue	1
855-14203	<b>FCST</b>	FCST	ST Multimode Fiber Connector	Beige	1
855-14204	<b>FCSTSM</b>	FCSTSM	ST Single Mode Fiber Connector	Blue	1

Use **Part No.** for ordering and **Type** for specification purposes.

# keyed LC fiber

## Keyed LC Fiber

For applications in which privacy and security are primary concerns, HellermannTyton offers a keyed LC fiber solution. Keyed LC fiber pre-terminated cassettes, jumpers, connectors and adapter panels are offered in eight color coded mating configurations that feature a tamper-proof design to reduce unauthorized connections.

HellermannTyton keyed LC fiber can be used to easily segregate and identify parts or pathways within a network infrastructure. In addition, keyed connectors help reduce the risk of accidental or malicious network access, particularly in shared access areas or in secure hierarchical environments such as government, military or research facilities. For these networks, maintaining network integrity and security are of the highest importance.



Keyed LC Adapter



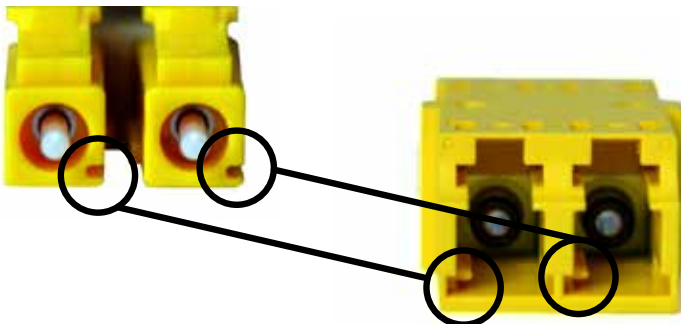
Fiber Jumper with Keyed LC Connector

### FEATURES AND BENEFITS:

- “Keyed” mating design reduces the risk of accidental or malicious network access
- Eight different color coded options for easy part identification
- Connectors and adapters are manufactured to ensure precision alignment and low losses, typically 0.15dB for multimode and 0.08dB for single mode
- Mated pairs meet or exceed the performance requirements of TIA 568-C.3 and IEC 874-14 interoperability



The keys are created using combinations of unique protrusions and slots on both the adapter and connector.



### Available Colors

Color	Ordering Code
YEL	<b>3</b>
RED	<b>4</b>
ORG	<b>5</b>
GRN	<b>8</b>
W	<b>W</b>
BLU	<b>H</b>
BRN	<b>B</b>
MAG	<b>M</b>

Part No.	Description	Color
<b>KEYED FIBER ADAPTER PANELS</b>		
FAP6DMMKLC3	Keyed Adapter Panel 12 LC Yellow	Yellow
FAP6DMMKLC4	Keyed Adapter Panel 12 LC Red	Red
FAP6DMMKLC5	Keyed Adapter Panel 12 LC Orange	Orange
FAP6DMMKLC8	Keyed Adapter Panel 12 LC Green	Green
FAP6DMMKLCW	Keyed Adapter Panel 12 LC White	White
FAP6DMMKLCB	Keyed Adapter Panel 12 LC Blue	Blue
FAP6DMMKLCB	Keyed Adapter Panel 12 LC Brown	Brown
FAP6DMMKLCM	Keyed Adapter Panel 12 LC Magenta	Magenta
<b>KEYED FIBER CONNECTORS</b>		
FCKLC3	Keyed LC Connector Yellow	Yellow
FCKLC4	Keyed LC Connector Red	Red
FCKLC5	Keyed LC Connector Orange	Orange
FCKLC8	Keyed LC Connector Green	Green
FCKLCW	Keyed LC Connector White	White
FCKLCH	Keyed LC Connector Blue	Blue
FCKLCB	Keyed LC Connector Brown	Brown
FCKLCM	Keyed LC Connector Magenta	Magenta

Use **Part No.** for ordering.

## Keyed Fiber Jumper Matrix

Fiber Type	Part Number	Description
<b>MULTIMODE OM3</b>		
KLC – KLC	FADOM3KLCKLCX	KLC – KLC X Duplex OM3, D Meter Fiber Jumper
KLC – LC	FADOM3KLCLCX	KLC – LC X Duplex OM3, D Meter Fiber Jumper
KLC – ST	FADOM3KLCSTX	KLC – ST X Duplex OM3, D Meter Fiber Jumper
KLC – SC	FADOM3KLCSCX	KLC – SC X Duplex OM3, D Meter Fiber Jumper
<b>MULTIMODE OM2</b>		
KLC – KLC	FADOM2KLCKLCX	KLC – KLC X Duplex OM2, D Meter Fiber Jumper
KLC – LC	FADOM2KLCLCX	KLC – LC X Duplex OM2, D Meter Fiber Jumper
KLC – ST	FADOM2KLCSTX	KLC – ST X Duplex OM2, D Meter Fiber Jumper
KLC – SC	FADOM2KLCSCX	KLC – SC X Duplex OM2, D Meter Fiber Jumper
<b>MULTIMODE OM1</b>		
KLC – KLC	FADOM1KLCKLCX	KLC – KLC X Duplex OM1, D Meter Fiber Jumper
KLC – LC	FADOM1KLCLCX	KLC – LC X Duplex OM1, D Meter Fiber Jumper
KLC – ST	FADOM1KLCSTX	KLC – ST X Duplex OM1, D Meter Fiber Jumper
KLC – SC	FADOM1KLCSCX	KLC – SC X Duplex OM1, D Meter Fiber Jumper
<b>SINGLE MODE OS2</b>		
KLC – KLC	FADSMKLCCLCX	KLC – KLC X Duplex SM, D Meter Fiber Jumper
KLC – LC	FADSMKLCCLCX	KLC – LC X Duplex SM, D Meter Fiber Jumper
KLC – ST	FADSMKLCSTX	KLC – ST X Duplex SM, D Meter Fiber Jumper
KLC – SC	FADSMKLCSCX	KLC – SC X Duplex SM, D Meter Fiber Jumper

D = Length in Meters    X = Yellow / 3 Red / 4 Orange / 5 Green / 8 White / W Blue / H Brown / B Magenta / M

Use **Part No.** for ordering and indicate length and color choice from available colors.

# tools & kits

## Fiber Optic Tools & Kits

HellermannTyton offers a complete line of tools and accessories to assist with both factory and field terminated installations. In addition to bulkhead and reel cleaners, we offer complete termination kits that include all of the tools necessary for stripping and terminating fiber optic lines.



Article No.	Part No.	Type	Description	Pkg Qty
855-19200	<b>FCCONSUMABLES</b>	FCCONSUMABLES	Fiber Connector Consumable Kit for SC, ST and LC connectors	1
855-19201	<b>FCEPOXYKIT</b>	FCEPOXYKIT	Replacement Epoxy Kit for Field Installable Connectors	1
855-19207	<b>FCTERMKIT</b>	FCTERMKIT	Termination Kit for ST/SC Multimode Connectors	1
855-49207	<b>FACLC</b>	FACLC	LC In Bulkhead Cleaner, 1/pkg	1
855-19202	<b>FCPAPER1</b>	FCPAPER1	1.0 Micron Polishing Paper for Field Terminated Connectors	50
855-19203	<b>FCPAPER5</b>	FCPAPER5	5.0 Micron Polishing Paper for Field Terminated Connectors	50
855-19204	<b>FCPAPERSM</b>	FCPAPERSM	.1 Micron Diamond Polishing Paper for Single Mode Connectors	1
855-19205	<b>FCPUCKLC</b>	FCPUCKLC	LC Polishing Puck, Black	1
855-19206	<b>FCPUCKSCST</b>	FCPUCKSCST	SC/ST Polishing Puck, Black	1
855-49209	<b>FCRC</b>	FCRC	Reel Cleaner for Fiber Connectors	1
855-49210	<b>FCRCREF</b>	FCRCREF	Reel Cleaner Refills for Fiber Connectors	6
855-49208	<b>FACMTP</b>	FACMTP	MTP In Bulkhead Cleaner	1
590-00171	<b>FO1</b>	FO1	Fiberclean Dispenser, .75" X 1.50", 10' Of Non-Woven Cloth, White	1
590-00172	<b>FO1REF</b>	FO1REF	Fiberclean Refill, .75" X 1.50", 10' Of Non-Woven Cloth, White	1
855-19208	<b>HTFS</b>	HTFS	Multi-Function Fiber Optic Stripper	1
855-49206	<b>PFCCLEAVER</b>	PFCCLEAVER	Pre-polished Connector Precision Cleaver	1
855-49205	<b>PFCTERMKIT</b>	PFCTERMKIT	Pre-polished Connector Termination Kit	1

Use **Part No.** for ordering and **Type** for specification purposes.



## RapidNet® Pre-terminated Networking Solutions

For quick and seamless installations with minimal debris and waste, HellermannTyton offers RapidNet pre-terminated solutions - an ideal choice for data center installations where limited downtime is essential.

RapidNet is our patented, pre-terminated connect-and-go system for both copper and fiber cabling systems. Lengths are customized to your specific needs and every termination is housed in our robust, protective cassettes to make installation a snap. Each cassette inserts easily into the RapidNet modular panel which fits into a standard 19" rack. RapidNet is manufactured in a stringent, quality controlled environment and arrives pre-labeled and pre-tested which contributes to higher quality and lower installation times. Because it can be installed so quickly and carries a high degree of performance and reliability, RapidNet is the ideal solution for mission critical data centers, temporary networks and disaster recovery operations.



For more information on RapidNet pre-terminated solutions visit [www.hellermann.tyton.com/rapidnet](http://www.hellermann.tyton.com/rapidnet).

# network sciences



## Network Sciences™

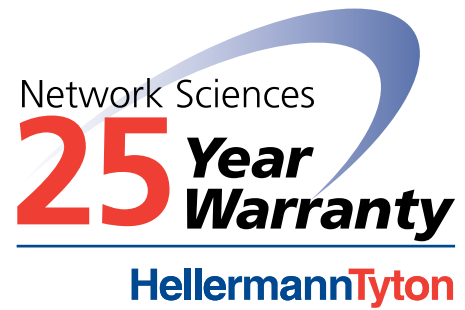
HellermannTyton's Network Sciences™ program offers training and certification courses and a comprehensive 25 year warranty on HellermannTyton fiber and/or copper systems. HellermannTyton provides contractors with specialized training to ensure reliable and professional installation of our products in order to meet warranty specifications.

### **Fiber Training and Certification**

The Network Sciences Fiber Installation Certification course provides comprehensive training on fiber optic products and proper installation and implementation within the network. This course qualifies for three (3) continuing education credits (CECs) from BICSI. HellermannTyton Certified Installers are the essential connection between HellermannTyton connectivity products and the design, installation, testing and maintenance of a structured cabling system. Only HellermannTyton Certified Fiber Installers from approved companies can provide the 25 Year Network Sciences System Warranty, guaranteeing their work and installed HellermannTyton fiber products.

## 25 Year System Warranty

HellermannTyton assures installation dependability and maximum performance with its 25 Year Network Sciences™ System Warranty program. The Network Sciences Warranty guarantees consistent quality and performance of HellermannTyton structured cabling products and installed systems for the period of 25 years. This warranty covers fiber and/or copper connectivity products and cable (installers must complete fiber and copper training and certification to provide each warranty), ensuring system performance in accordance with current TIA standards. The 25 Year Network Sciences Warranty is only offered through HellermannTyton Certified Installers. These Certified Installers have been trained and successfully passed the required exams to install a system that meets HellermannTyton warranty specifications.



## Registering a Fiber Installation for Warranty

In order to qualify for the HellermannTyton Network Sciences Warranty, the installation must be comprised of only HellermannTyton fiber connectivity products and/or other HellermannTyton approved products, and the installation must be completed by a HellermannTyton Certified Fiber Installer from an approved company. Once installation is complete, the installer will evaluate and test the installation and submit the results to HellermannTyton for review. It typically takes 1-2 weeks to receive the Certificate of Conformance to confirm that the installation is registered for the Network Sciences 25 Year System Warranty and that the installation meets warranty specifications.

### WARRANTY FEATURES AND BENEFITS:

- Network of trained and certified fiber installers
- Covers fiber cable and connectivity
- Full channel warranty or permanent link option
- Cost of replacement and reinstallation fully covered

For more information on our warranty and contractor certification programs, contact a HellermannTyton customer service representative by calling **800.537.1512** or visit **[www.hellermann.tyton.com](http://www.hellermann.tyton.com)**.

## Product Warranty

In addition to a performance warranty, HellermannTyton offers a lifetime warranty on its connectivity products. This guarantees that products are free of factory defects in material and workmanship.

Located in 34 countries, HellermannTyton brings the best to its customers through global resources channeled to local implementations. Flexibility, agility, and ability to create value-added, market driven solutions are the hallmarks of every HellermannTyton company across the world.



ARGENTINA | AUSTRALIA | AUSTRIA | BELGIUM | BRAZIL | CANADA | CHINA  
CZECH REPUBLIC | DENMARK | FINLAND | FRANCE | GERMANY | HONG KONG  
HUNGARY | IRELAND | ITALY | JAPAN | KOREA | MEXICO | NETHERLANDS | NORWAY | PHILIPPINES  
POLAND | PORTUGAL | ROMANIA | RUSSIAN FEDERATION | SINGAPORE | SLOVENIA | SOUTH AFRICA |  
SPAIN | SWEDEN | THAILAND | UNITED KINGDOM | UNITED STATES

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***TS16949, ISO 9001, and ISO 14001 certified***

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email: info@htamericas.com.mx

***ISO 9001 certified***

## **Warranty Policy**

HellermannTyton products are warranted to be free from defects in material and workmanship at the time sold by us; but our obligation under this warranty and that of the seller is limited to the replacement of the product, and neither we nor the seller are bound by any other warranty, expressed, implied or statutory. Under no circumstances are we or the seller liable for any loss, damage, expenses or consequential damages of any kind arising out of the use or inability to use these products. All are sold with the understanding that the user will test them in actual use and determine their adaptability for the intended uses.