Fiber Optic Connectivity 10G / 40G / 100G



Enclosures

Pre-configured

Patch Cords
Bundled + Labeled



Built to Spec





Our Mission

At Cablesys, our mission is to simplify cabling systems for your data center projects. We take complex fiber systems and make them **EASY** to order and **EASY** to install. Our fiber systems are assembled in California according to your spec. They are ready to go, right out of the box when you receive them.



Enclosures

- Connectivity is pre-configured into every enclosure
- EASY to order with no guessing
- Install in a few SIMPLE steps with one screw driver



Patch Cords

- Pre-terminated, tested, bundled and labeled
- **EASY** to pull and **EASY** to identify
- No need to open multiple packages, untangle cables or print labels



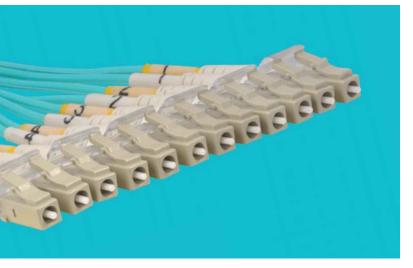
Built to Order, Built to Spec

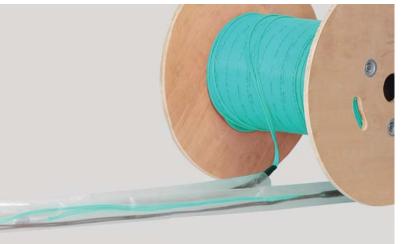
- Specify configuration, length, color, performance and more
- Pre-sort products into kits so they are EASY to allocate









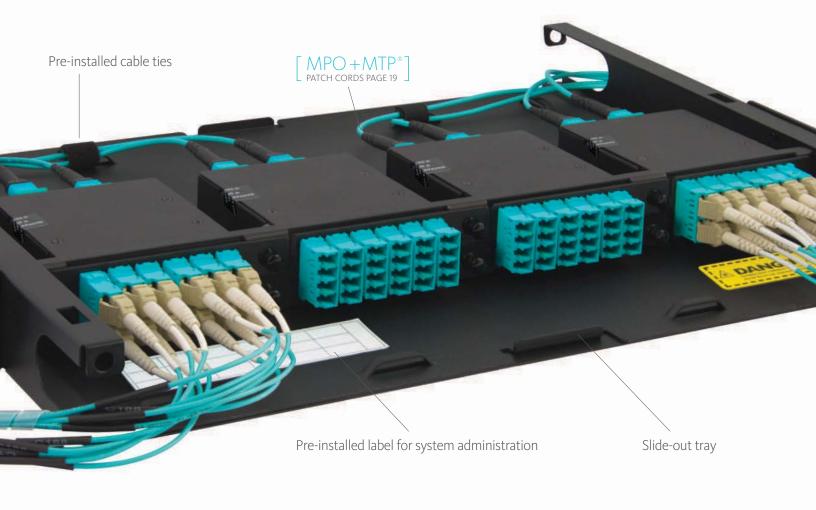


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High Density [HD] Rack Mount Enclosures

- Comes with HD adapter panels or MPO cassettes
- Multimode: adapter panels OM3/OM4, MPO cassettes OM3
- Meets or exceeds all TIA-568-C.3 requirements
- Fits on racks and cabinets with 19 inch mounting widths
- Made with 20 gauge steel, powder-coated black
- Slide-out tray with removable front and rear covers
- Front and rear side openings for cable to enter and exit
- Provides a safe and clean environment for fiber















LC [C]





LC [D]



LC ENCLOSURES			PART NO.
CONNECTOR TYPE	FIBERS	RMS*	
[A] 4 MPO cassettes	96 LC front, 8 MPO rear	1	GHF7318804
[B] 8 MPO cassettes	192 LC front, 16 MPO rear	2	GHF7328808
[C] 4 adapter panels	96 LC	1	GHF7318304
[D] 8 adapter panels	192 LC	2	GHF7328308

SC E	ENCLOSURES			PART NO.
COI	NNECTOR TYPE	FIBERS	RMS*	
[E]	4 MPO cassettes	48 SC front, 4 MPO rear	1	GHF7318604
[F]	8 MPO cassettes	96 SC front, 8 MPO rear	2	GHF7328608
[G]	4 adapter panels	48 SC	1	GHF7318104
[H]	8 adapter panels	96 SC	2	GHF7328108

^{* 1} RMS [rack mount space] = 1.75" height

SPLICE TRAY	
Splice tray with fusion splice holder for 12 fibers [See page 23]	GHF7927012



Standard Rack Mount Enclosures

- Comes with LGX® compatible adapter panels or MPO cassettes Made with 20 gauge steel, powder-coated black
- Multimode: adapter panels OM3/OM4, MPO cassettes OM3
- Meets or exceeds all TIA-568-C.3 requirements
- Fits on racks and cabinets with 19 inch mounting widths
- Slide-out tray with removable front and rear covers
- Front and rear side openings for cable to enter and exit
- Provides a safe and clean environment for fiber

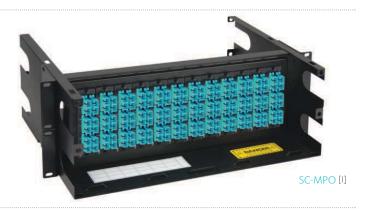














SC [J]

LC [D]









LC [E]

SC [K]





LC [F]

SC [L]

LC ENCLOSURES			PART NO.
CONNECTOR TYPE	FIBERS	RMS*	
[A] 3 MPO cassettes	72 LC front, 6 MPO rear	1	GHF7317803
[B] 6 MPO cassettes	144 LC front, 12 MPO rear	2	GHF7327806
[C] 12 MPO cassettes	288 LC front, 24 MPO rear	4	GHF7347812
[D] 3 adapter panels	72 LC	1	GHF7317303
[E] 6 adapter panels	144 LC	2	GHF7327306
[F] 12 adapter panels	288 LC	4	GHF7347312

SC E	NCLOSURES			PART NO.
CON	INECTOR TYPE	FIBERS	RMS*	
[G]	3 MPO cassettes	36 SC front, 3 MPO rear	1	GHF7317603
[H]	6 MPO cassettes	72 SC front, 6 MPO rear	2	GHF7327606
[1]	12 MPO cassettes	144 SC front, 12 MPO rear	4	GHF7347612
[J]	3 adapter panels	36 SC	1	GHF7317103
[K]	6 adapter panels	72 SC	2	GHF7327106
[L]	12 adapter panels	144 SC	4	GHF7347112
[i] [J] [K]	12 MPO cassettes 3 adapter panels 6 adapter panels	144 SC front, 12 MPO rear 36 SC 72 SC	4 1 2	GHF7347612 GHF7317103 GHF7327106

EMPTY ENCLOSURES		
3 panel, 1 RMS*, Part No. GHF7317003	6 panel, 2 RMS*, Part No. GHF7327006	12 panel, 4 RMS*, Part No. GHF7347012

^{* 1} RMS [rack mount space] = 1.75" height

SPLICE TRAY	
Splice tray with fusion splice holder for 12 fibers [See page 23]	GHF7927012

High Density [HD] Patch Panels

- Patch panels come with LC style connectors built-in
- Multimode: adapters OM3/OM4, MPO cassettes OM3
- Optimized adapter spacing makes patching jumpers easy
- Optional brackets help support cable on the front and rear
- Loaded with TIA/EIA-604 FOCIS compliant adapters
- 16 gauge steel frame, powder-coated black
- · Comes with protective caps to prevent dust from entering
- Fits on racks and cabinets with 19 inch mounting widths



MPO+MTP®
PATCH CORDS PAGE 19



Front

Rear



LC PATCH PANEL

Front



Rear



LC PATCH PANELS			PART NO.
CONNECTOR TYPE	FIBERS	RMS*	
[A] 4 LC quad MPO cassette	96 LC front, 8 MPO rear	1	GHFPAJGP24
[B] 24 LC quad adapters	96 LC	1	GHFPAJPB36

^{* 1} RMS [rack mount space] = 1.75" height

CABLE MANAGEMENT BRACKETS	
[C] 3" depth, front extended bracket	GHFPAMF003
[D] 5" depth, rear extended bracket	GHFPAMR005

Don't see the configurations you need? We can build to your spec. Talk to us

LC [B]

Standard Wall Mount Enclosures

- Comes with LGX® compatible adapter panels or MPO cassettes Made with 18 gauge steel, powder-coated black
- Multimode: adapter panels OM3/OM4, MPO cassettes OM3
- Meets or exceeds all TIA-568-C.3 requirements
- For small installations at a remote indoor location
- Swing-out door with lock and key for security
- Cable entry and exits on top and bottom
- Provides a safe and clean environment for fiber











LC-MPO [A]

SC-MPO [C]





LC [B]

SC [D]

LC ENCLOSURES			PART NO.
CONNECTOR TYPE	FIBERS	RMS*	
[A] 4 MPO cassettes	96 LC front, 8 MPO rear	1	GHF7517804
[B] 4 adapter panels	96 LC	1	GHF7517304

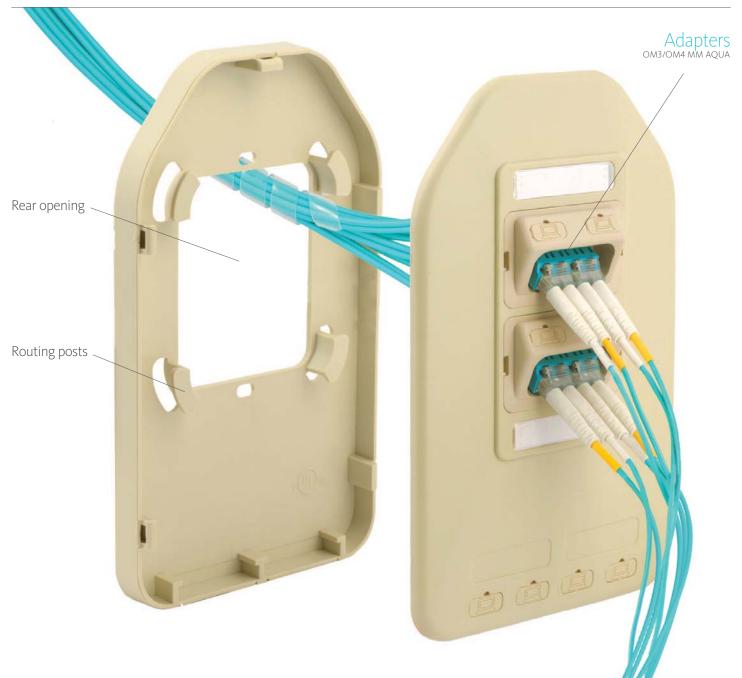
SC E	NCLOSURES			PART NO.
CON	NNECTOR TYPE	FIBERS	RMS*	
[C]	4 MPO cassettes	48 SC front, 4 MPO rear	1	GHF7517604
[D]	4 adapter panels	48 SC	1	GHF7517104

EMPTY ENCLOSURE	
4 panel, 10.86" H x 13" W x 3.76" D	GHF7517004

SPLICE TRAY	
Splice tray with fusion splice holder for 12 fibers [See page 23]	GHF7927012

Front-Feed Network Interface Outlets [NIOs]

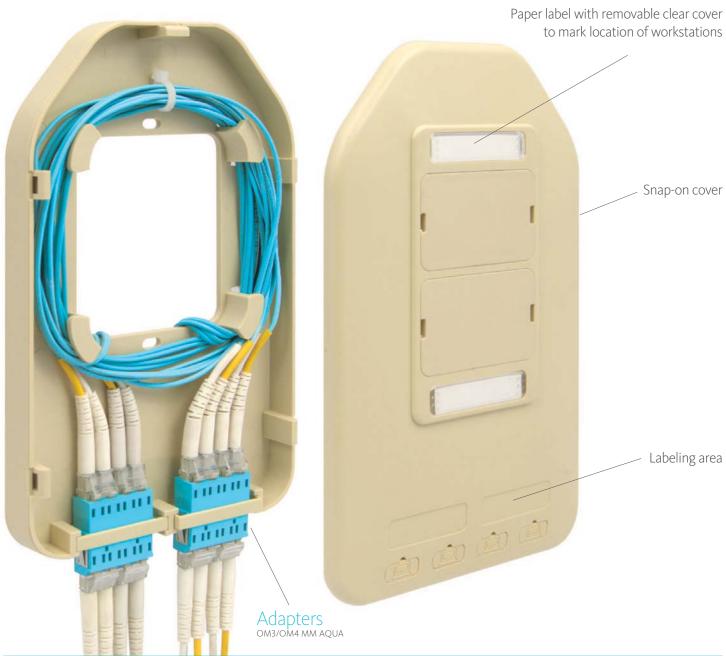
- Supports up to eight LC fibers at the front allowing fiber to enter and exit at a 45 degree angle
- Consolidates and distributes fiber to the Work Area
- Loaded with TIA/EIA-604 FOCIS compliant adapters
- Mounting complies with NEMA's standard size for single gang electrical boxes



LC OUTLET			PART NO.
CONNECTOR TYPE	FIBERS	HOUSING COLOR	
2 LC quad adapters angled	8 LC	lvory	GHF77LCP54

Base-Feed Network Interface Outlets [NIOs]

- Supports up to eight LC fibers at the bottom allowing fiber to enter and exit vertically in tight spaces
- Consolidates and distributes fiber to the Work Area
- Loaded with TIA/EIA-604 FOCIS compliant adapters
- Mounting complies with NEMA's standard size for single gang electrical boxes



LC OUTLET			PART NO.
CONNECTOR TYPE	FIBERS	HOUSING COLOR	
2 LC quad adapters low-profile	8 LC	lvory	GHF77LCP34

Standard MPO Cassettes

- Fits in LGX® compatible rack and wall mount enclosures
- Designed with push and pull fasteners for easy installation
- Pre-terminated to eliminate the need for field termination
- · No splicing, polishing or testing required

- Factory terminated and tested per IEEE 802.3ae 10 GbE
- Low Insertion Loss; < 0.3dB LC and < 0.5dB MPO
- · Test results are included

Proper Ways to Connect to MPO

Female MPO jumper



Multimode MPO cassettes are equipped with male MPO connectors and require female MPO jumpers to be installed on the opposite end.

APC female MPO jumper



Singlemode MPO cassettes are equipped with MPO/APC connectors and require MPO/APC jumpers for proper connection and to prevent damage.

MPO Cassettes









MPO + MTP PATCH CORDS PAGE 19

Front Rear





Front Rear SC-MPO [C]

MPO CASSETTES			PART NO.
CONNECTOR TYPE	FIBERS	SLEEVE	
[A] 6 LC quad adapters	24 LC front, 2 MPO rear	Metal	GHFCLCGD24
[B] 3 LC quad adapters	12 LC front, 1 MPO rear	Metal	GHFCLCGD12
[C] 6 SC duplex adapters	12 LC front, 1 MPO rear	Metal	GHFCSCGD12

Note: cassette style may vary.

Don't see the configurations you need? We can build to your spec. Talk to us!

LC-MPO [B]

Standard Adapter Panels

- Fits in LGX® compatible rack and wall mount enclosures
- Loaded with TIA/EIA-604 FOCIS compliant adapters
- Provides system modularity for easy moves, adds and changes [MACs]
- Designed with push and pull fasteners for easy installation and removal





SC [D]





MPO+MTP®

MPO [E]





LC [C]

LC [B]

C] [F]

GHFCLCPB34
GHFCLCPB72
GHFCLCPB32
GHFCSCPB32
GHFCMP8832
GHFC668800

Note: adapter panel style may vary.

Don't see the configurations you need? We can build to your spec. Talk to us!

How to Maximize Port Density in Enclosures

LC Quad Adapters for high density port spacing



24 norts

50% increase in density

LC Duplex Adapters for standard port spacing

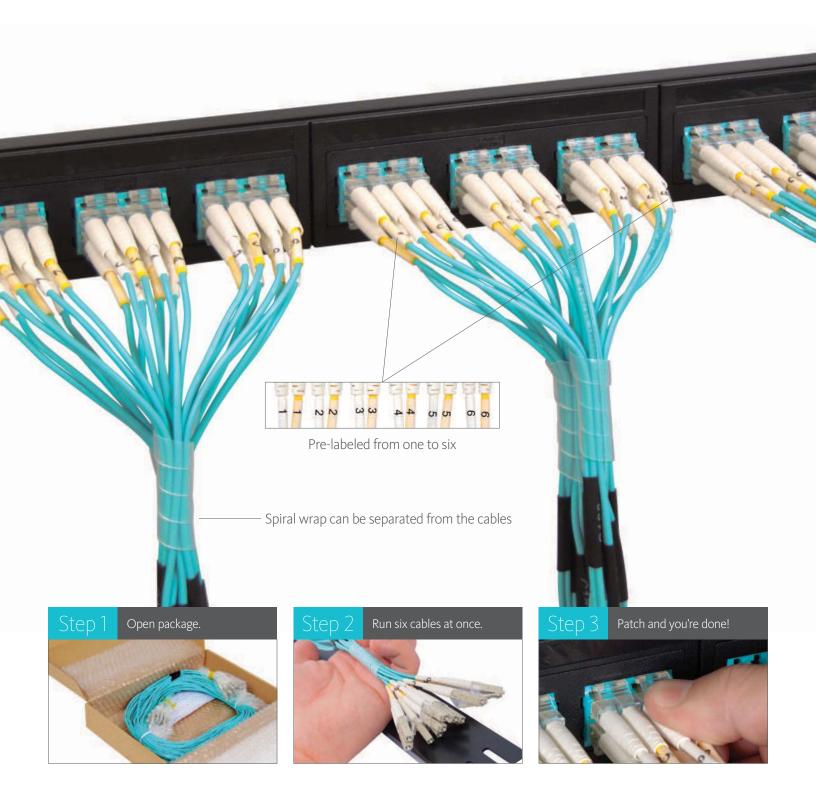


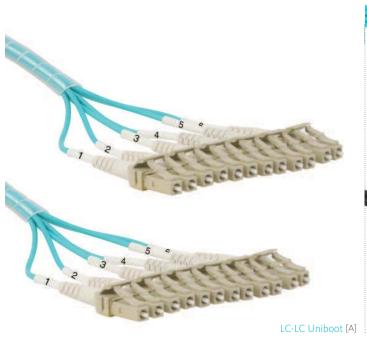


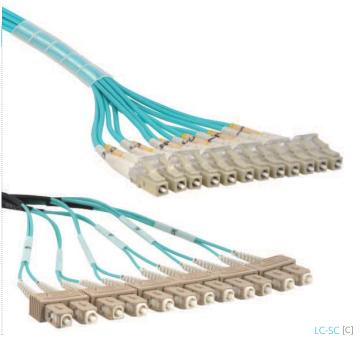
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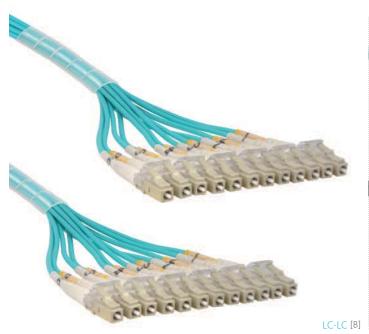
Bundle6[™] Patch Cords

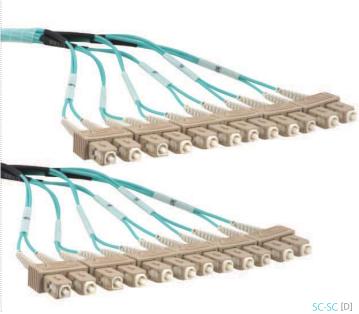
- Six patch cords pre-bundled and packaged in a box
- Bundling helps route cables with one pull
- Saves time from opening multiple packages
- Spiral wrap can easily be separated from cables
- Complies with TIA-492AAAC OM3 standard
- Exceeds ANSI/TIA 568-C.3 performance standard
- Complies with IEEE 802.3 and IEC-60793-2-10 standards
- Made with bend-insensitive multimode fiber in AB to BA polarity









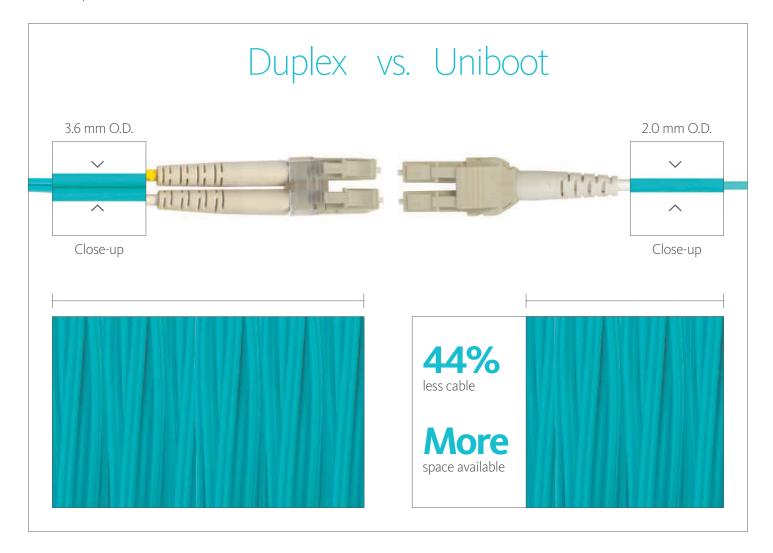


BUNDLE6™ PATCH CORDS	PART NO.			
CONNECTOR TYPE	FIBERS	RATING	JACKET TYPE	
[A] 6 LC to LC duplex Uniboot	12	OM4 LOMMF 50 μm	LSZH	G6FAZBBQxx-M*
6 LC to LC duplex Uniboot	12	OM3 LOMMF 50 µm	OFNR	G6FGZBBLxx-M*
[B] 6 LC to LC duplex	12	OM3 LOMMF 50 µm	OFNR	G6FGZLLLxx-M*
[C] 6 LC to SC duplex	12	OM3 LOMMF 50 µm	OFNR	G6FGZCLLxx-M*
[D] 6 SC to SC duplex	12	OM3 LOMMF 50 µm	OFNR	G6FGZCCLxx-M*

^{*}xx [length in meters, 1m = 3.28 feet] = $01 \sim 15m$ in stock with 1m increment.

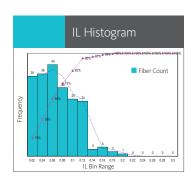
Standard Patch Cords

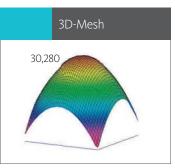
- Made with bend-insensitive fiber in AB to BA polarity
- Complies with IEEE 802.3 and IEC-60793-2-10 standards
- Complies with TIA-492AAAC OM3 and TIA-492AAAD OM4
- Laser optimized 10/40/100G for OM3 and OM4 networks
- Exceeds TIA 568 performance requirements
- Tested with an average Insertion Loss of 0.2 dB
- Beats the industry's average Insertion Loss of 0.75 dB

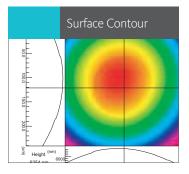


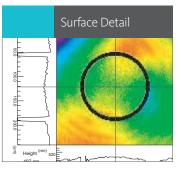
Tested up to <= 0.1 dB Insertion Loss

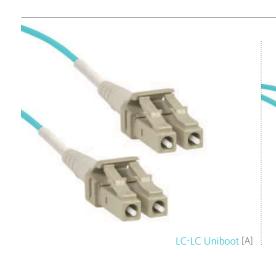
OM3 multimode fiber tested per TIA® specification, 83% tested <=0.1 dB, 99% tested <=0.16 dB







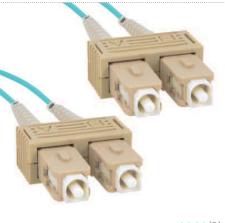














Α.			[D]
11	LI	I (.	

SC-SC [D]

MTP®-MTP [F]

STANDARD PATCH CORDS			PART NO.	
CONNECTOR TYPE	FIBERS	RATING	OFNR JACKET TYPE	OFNP JACKET TYPE
[A] LC to LC duplex Uniboot	2	OM4 LOMMF 50 μm	GCFAZBBQxx-M*	GCFPZBBQxx-M*
LC to LC duplex Uniboot	2	OM3 LOMMF 50 µm	GCFGZBBLxx-M*	GCFRZBBLxx-M*
[B] LC to LC duplex	2	OM3 LOMMF 50 µm	GCFGZLLLxx-M*	GCFRZLLLxx-M*
[C] LC to SC duplex	2	OM3 LOMMF 50 µm	GCFGZCLLxx-M*	GCFRZCLLxx-M*
[D] SC to SC duplex	2	OM3 LOMMF 50 µm	GCFGZCCLxx-M*	GCFRZCCLxx-M*
[E] MPO to MPO	12	OM3 LOMMF 50 µm	GCFGSPPLxx-M*	GCFRSPPLxx-M*
[F] MTP to MTP	12	OM3 LOMMF 50 µm	GCFGSQQLxx-M*	GCFRSQQLxx-M*

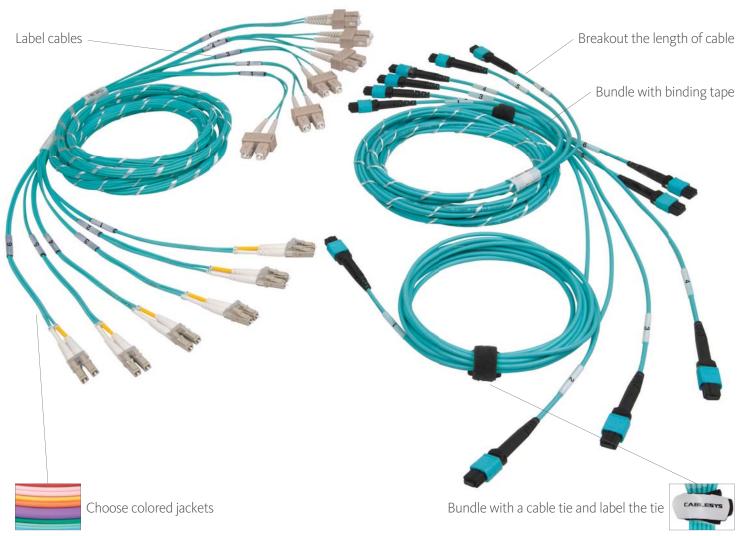
^{*}xx [length in meters, 1m = 3.28 feet] = $01 \sim 15$ m in stock with 1m increment.



Don't see the configurations you need? We can build to your spec. Talk to us!

Built to Order Patch Cords

- Made with bend-insensitive fiber
- Factory tested to exceed TIA 568 performance requirements
- Average lead times; 7-10 days if made in the USA, 2-4 weeks if made offshore
- Test results are included for each assembly
- We manufacture low and high volume capacities
- We handle national deployments and small, quick-turn orders
- Get a quotation within 24 hours from your Sales representative

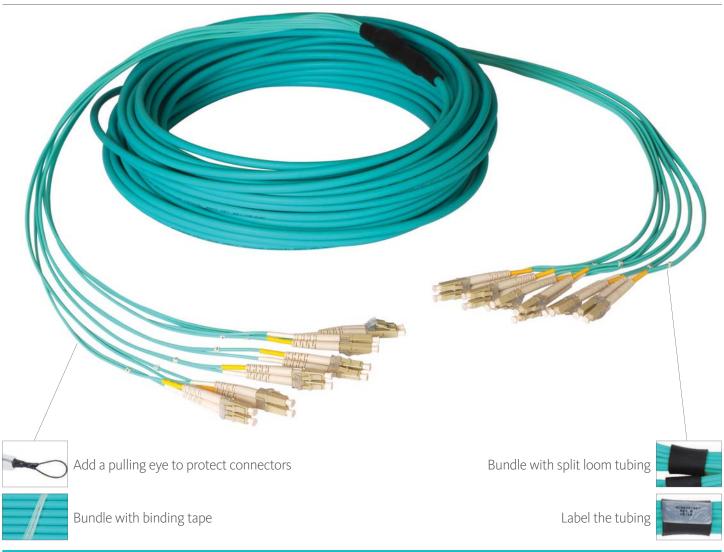


AVAILABLE OPTIO	NS					
CABLE COUNT	JACKET CONSTRUCTION	1ST TERMINAL CONNECTOR	2ND TERMINAL CONNECTOR	RATING	LENGTH	UNIT
Simplex	OFNR	ST	ST	OM4	1 or more	Meter
Duplex	OFNP	SC	SC	OM3		Feet
	LSZH	FC	FC	OM2		
		LC	LC	OM1		
		LC uni-body	LC uni-body	OS1		
		MPO	MPO			
		MPO with pins	MPO with pins			
		MTP	MTP			
		MTP with pins	MTP with pins			

Built to Order Trunk Cable Assemblies

- Made with bend-insensitive fiber
- Factory tested to exceed TIA 568 performance requirements
- Test results are included for each assembly
- Average lead time; 2-4 weeks

- We manufacture low and high volume capacities
- We handle national deployments and small, quick-turn orders
- Get a quotation within 24 hours from your Sales representative



AVAILABLE OPTION	IS					
CABLE COUNT	JACKET CONSTRUCTION	1ST TERMINAL CONNECTOR	2ND TERMINAL CONNECTOR	RATING	LENGTH	UNIT
6 fiber	Ribbon OFNR	ST	ST	OM4	1 or more	Meter
8 fiber	Ribbon OFNP	SC	SC	OM3		Feet
12 fiber	Distribution OFNR	FC	FC	OM2		
24 fiber	Distribution OFNP	LC	LC	OM1		
		LC uni-body	LC uni-body	OS1		
		MPO	MPO			
		MPO with pins	MPO with pins			
		MTP	MTP			
	·	MTP with pins	MTP with pins		·	

CABLESYS

Adapters

- Made with durable UL® 94 V-0 material and metal for up to 500 matings
- Designed with zirconia ceramic or metal sleeves for precision alignment
- Comes with protective caps to prevent dust from entering
- Designed to connect two patch cords together







LC [C]



LC SM [E]



LC-SC [H]



LC quad [B]



LC [D]



SC MM [F]



SC [I]



[24]

LC quad [B]



[24] PACK]

LC [D]



SC SM [G]



SC [J]

ADAPTERS		PART NO.	
CONNECTOR TYPE	MOUNTING TYPE	OM3/OM4, AQUA	BLACK
[A] MPO simplex	SC mount with flange	GAFCMP8832	GAFCMP8802

CONNECTOR TYPE	MOUNTING TYPE	OM3/OM4, AQUA	24 PACKS	MM, BEIGE	SM, BLUE
		METAL SLEEVE	METAL SLEEVE	METAL SLEEVE	CERAMIC SLEEVE
[B] LC quad	Duplex SC mount	GAFCLCPB34	GAFCLCPV34	GAFCLCPB04	GAFCLCZR04
[C] LC duplex	Square mount	GAFCLCPB32	-	GAFCLCPB02	GAFCLCZR02
[D] LC duplex	Simplex SC mount	GAFCLCPB72	GAFCLCPV32	GAFCLCPB52	GAFCLCZR52
[E] LC simplex	Square mount	-	-	GAFCLCPB51	GAFCLCZR51
[F] SC duplex	Duplex SC mount	GAFCSCPB32	-	GAFCSCPB02	GAFCSCZR02
[G] SC simplex	Simplex SC mount	-	-	GAFCSCPB01	GAFCSCZR01

CONNECTOR TYPE	MOUNTING TYPE	METAL HOUSING	METAL HOUSING
		METAL SLEEVE	CERAMIC SLEEVE
[H] LC to SC simplex	SC mount with flange	-	GAFCCLZR21
[I] SC simplex	SC mount with flange	GAFCSCPB21	GAFCSCZR21
[J] SC duplex	SC mount with flange	GAFCSCPB22	GAFCSCZR22

Attenuators and Splice Tray

- Ensures transmitters deliver the proper level of energy
 - Insertion Loss Range: 1~5dB ±0.75, 6~10dB 1.0, 11~15dB 15%
- Splice tray fits in all rack and wall mount enclosures
 - Designed to hold and protect individual fusion splices

Loopback Adapters

- Flexible thumb release for easy removal
- OM3 and OM2 multimode and singlemode
- Bright color-coded body for easy identification
- Compact and ergonomic body, easy to store and handle





LC MM 50 µm [D]





Splice tray [C]

SC MM 50 µm [E]

ATTENUATOR TYPE	5 dB LOSS	10 dB LOSS	15 dB LOSS	20 dB LOSS		
[A] LC attenuator	GAFCLCA005	GAFCLCA010	GAFCLCA015	GAFCLCA020		
[B] SC attenuator	GAFCSCA005	GAFCSCA010	GAFCSCA015	GAFCSCA020		
SCA attenuator	GAFCSCAA05	GAFCSCAA10	GAFCSCAA15	GAFCSCAA20		
SPLICE TRAY						
[C] Base and cover, fusion splice holder for 12 fibers	GHF7927012					
LOOPBACK TYPE	MM 50 μm	MM 62.5 μm	SM 9 µm			
[D] LC loopback	GCFA1LLL00	GCFA1LLM00	GCFA1LLS00			

GCFA1CCM00

GCFA1CCS00

[E] SC loopback

DESCRIPTION

GCFA1CCL00

Fiber Optic Connectivity 10G / 40G / 100G





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