LightHouse™
Advanced Fibre Cabling Solutions

Siemon's LightHouse line of high-performance fibre optic cable and connectivity delivers a comprehensive solution set to meet nearly any network infrastructure need:

- **A complete line of rapidly-deployed, high-density Plug and Play solutions supporting up to 40 and 100Gb/s speeds - Including the innovative LightStack® ultra high-density Plug and Play system**
- **Comprehensive family of fibre enclosures, supporting up to 1152 fibre ports per enclosure**
- **High-performance, factory tested jumpers and pigtails including Siemon's innovative push-pull LC BladePatch®**
- **Field-terminated connectivity — multiple LC, SC and MTP configurations**
- **Preterminated and tested trunking cable assemblies available in custom lengths, fibre counts and configurations**
- **Fibre Cable — Multimode OM1 62.5/125, OM3 and OM4 50/125, and Singlemode OS1/OS2**
- **End-to-end line of fusion splice solutions**

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LightStack®

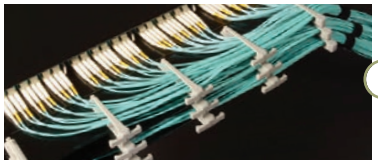
Siemon's Ultra High Density Fibre Plug & Play System

The Perfect Combination...

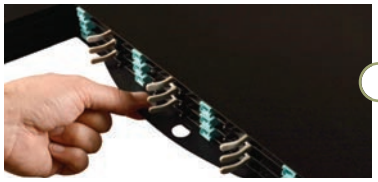
Siemon's LightStack system combines superior performance and ultra high density with unmatched accessibility - all packaged in a sleek, modern enclosure that manages fibre cabling like never before.

LightStack was specifically designed for advanced data centres, network and storage area environments, while providing a seamless migration to 40 and 100 gigabit applications.

Ultra High Density
Elegantly designed enclosures facilitate up to 144 fibres (LC) and 864 fibres (MTP) within 1U or 576 (LC) and 3456 (MTP) fibres within 4U



Superior Jumper Management
Unlatch and swing open clips for complete access to any jumper with ample capacity to route all jumpers in one direction



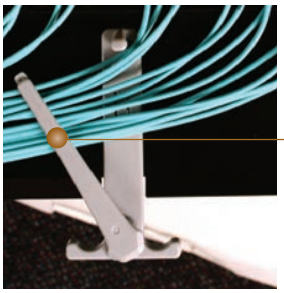
Unmatched Accessibility
Divider is there when you need it and gone when you don't. Slides inward for complete access to all connectivity at the rear of stacked enclosures

Low Loss Connectivity
Highest performing Plug and Play Modules and Adapters can be single-handedly installed and removed from the front or rear

To learn more about LightStack including its innovative labelling system and full range of preterminated trunks visit: www.siemon.com/lightstack

LightStack® Enclosures

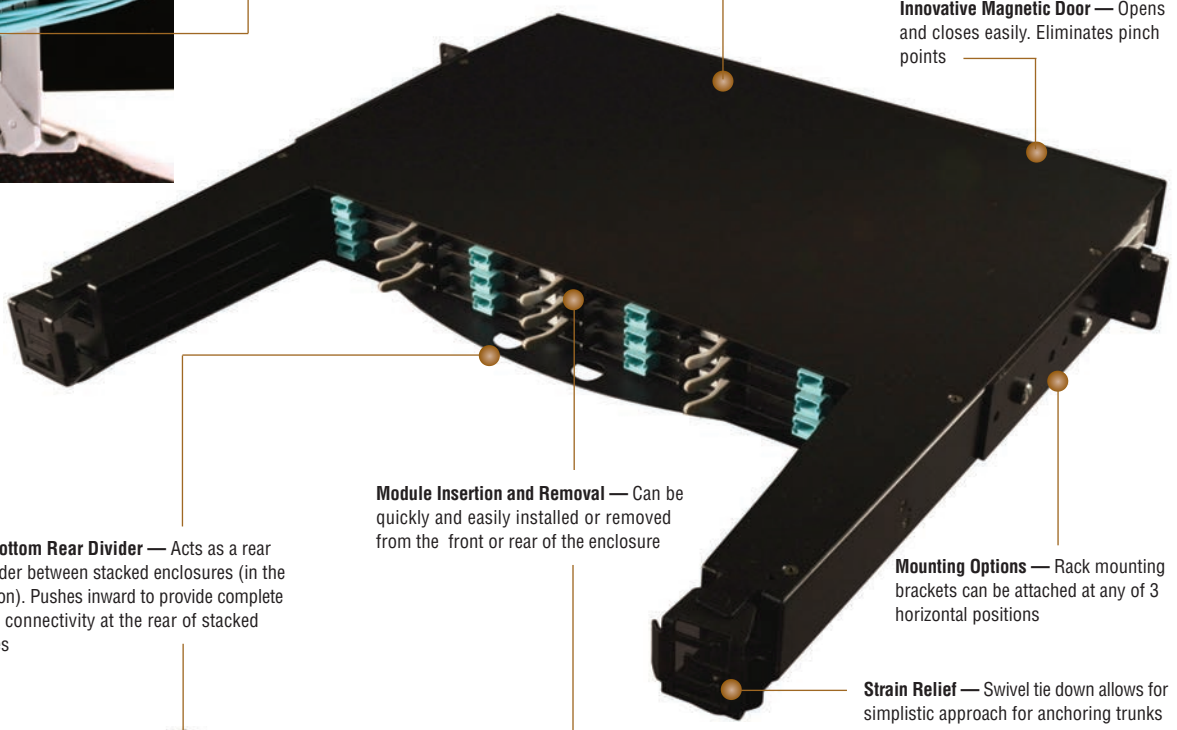
Siemon's LightStack ultra high density fibre Plug and Play enclosure offers superior density, port access and cable management in a sleek, modern enclosure that easily supports today's advanced data centre and storage area network environments.



Cable Management Clips — Unlatch and swing open for full access to any jumper

Innovative Labelling Solution — Drop-down label strip holder for high visibility

Innovative Magnetic Door — Opens and closes easily. Eliminates pinch points

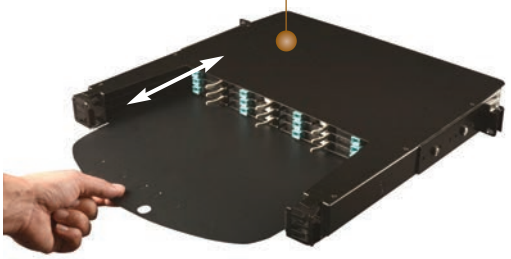


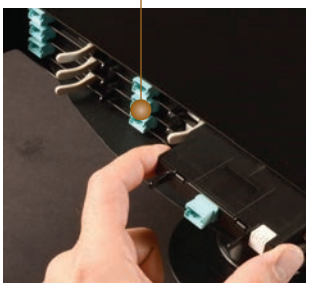
Module Insertion and Removal — Can be quickly and easily installed or removed from the front or rear of the enclosure

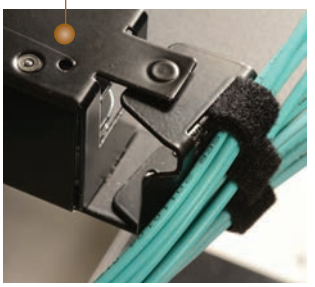
Sliding Bottom Rear Divider — Acts as a rear cable divider between stacked enclosures (in the out position). Pushes inward to provide complete access to connectivity at the rear of stacked enclosures

Mounting Options — Rack mounting brackets can be attached at any of 3 horizontal positions

Strain Relief — Swivel tie down allows for simplistic approach for anchoring trunks and eliminating pinch points







Ordering Information:

Part #	Description
LS-1U-01	LightStack enclosure, up to 144 LC fibres or 864 MTP fibres, 1U
LS-4U-01	LightStack enclosure, up to 576 LC fibres or 3456 MTP fibres, mounts in 19 in. racks or cabinets, 4U

1U Enclosure

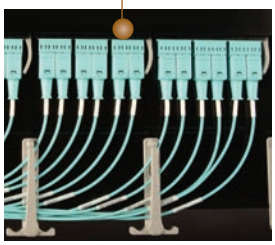
4U Enclosure

LightStack® Modules

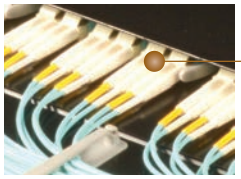
LightStack LC-to-MTP Low Loss Plug and Play modules deliver a quick and efficient way to deploy high-performance fibre cabling in a low-profile, high density package. Up to 12 of these ultra-slim modules can be installed in a single 1U LightStack enclosure, seamlessly providing up to 144 easily-managed LC fibre ports. Available in OM4 Multimode and Singlemode configurations, these modules offer industry leading loss performance of just 0.35dB.

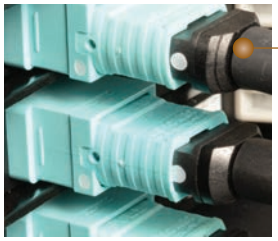
Ultra Slim Design — LightStack modules have an ultra slim design to achieve maximum fibre density

High Fibre Count — Up to 12 fibre count per module



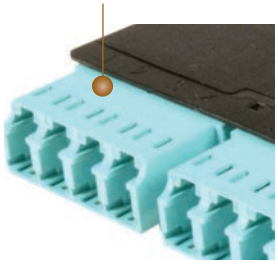
Standard Interfaces — LC to MTP interface. Available in OM4 and SM





Low Loss Options — Low loss performance (0.35dB per Multi-mode module)

Multiple Adapter Configurations — Aqua LC and MTP adapters for OM4; Blue LC adapters and black MTP adapters for SM



Rear Module Handles — Handles in the rear of module help facilitate removal from the back of the enclosure

Ordering Information:

Part #	Description
LS-12-LC5V-01	Module, 12 LC-to-MTP fibres, OM4, XGLO 550, aqua LC and MTP adapters
LS-12-LCEV-01	Module, 12 LC-to-MTP fibres, OM4, XGLO 550, erika violet LC and MTP adapters
LS-12-LCSM-01	Module, 12 LC-to-MTP fibres, Singlemode, blue LC adapters, black MTP adapters

PERFORMANCE SPECIFICATIONS

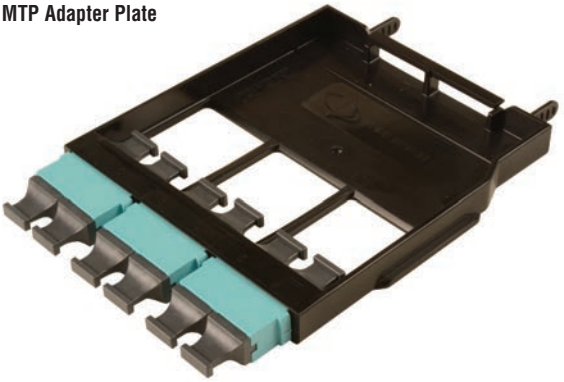
	Insertion Loss (dB)	Return Loss (dB)	Insertion Loss (dB)	Return Loss (dB)
	Multimode		Singlemode	
MTP	0.20	20	0.60	60
LC	0.15	30	0.40	55
MTP to LC	0.35	20	1.00	55

Reference Siemon's White Paper titled: "The Need for Low-Loss Multifibre Connectivity in Today's Data Centre" for information and guidance on design options, channel models and distances for 10, 40, 100Gb Ethernet and Fibre Channel applications.

LightStack® Adapter Plates

Fully ready to support 40 and 100 gigabit applications, LightStack low-loss 0.2dB MTP pass-through adapters are available in 2, 4 and 6-port designs supporting up to 72 fibres per adapter and are offered in both aligned and opposed key orientation to accommodate all polarity methods. In addition, LightStack also offers industry exclusive 12-fibre LC pass-through adapter plates for current 10 gigabit Ethernet or Fibre Channel SAN applications.

MTP Adapter Plate



LightStack MTP Adapter Plates

- Ultra slim design to achieve maximum fibre density
- Up to 72 fibre count
- Handles in the rear of module helps facilitate removal from the back of the enclosure

Ordering Information:

LS-MP(X)-01(X)(XX)

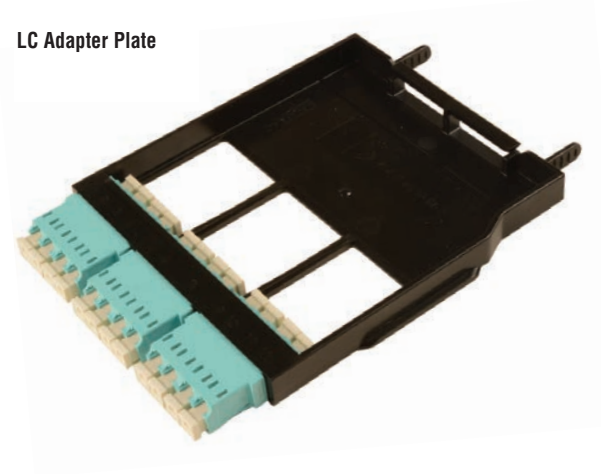
MTP Port Count
2 = 2 MTP Ports
4 = 4 MTP Ports
6 = 6 MTP Ports

Adapter Colour
BG = Beige
AQ = Aqua**
EV = Erika Violet**
BK = Black**
GR = Grey*

Key Orientation
B = Aligned (key up to key up)
C = Opposed (key up to key down)

* Key Orientation B Only
** Key Orientation C Only

LC Adapter Plate



LightStack LC Adapter Plates

- Used in conjunction with LC BladePatch® RazorCore™ trunks for rear connections only
- 12 LC fibres

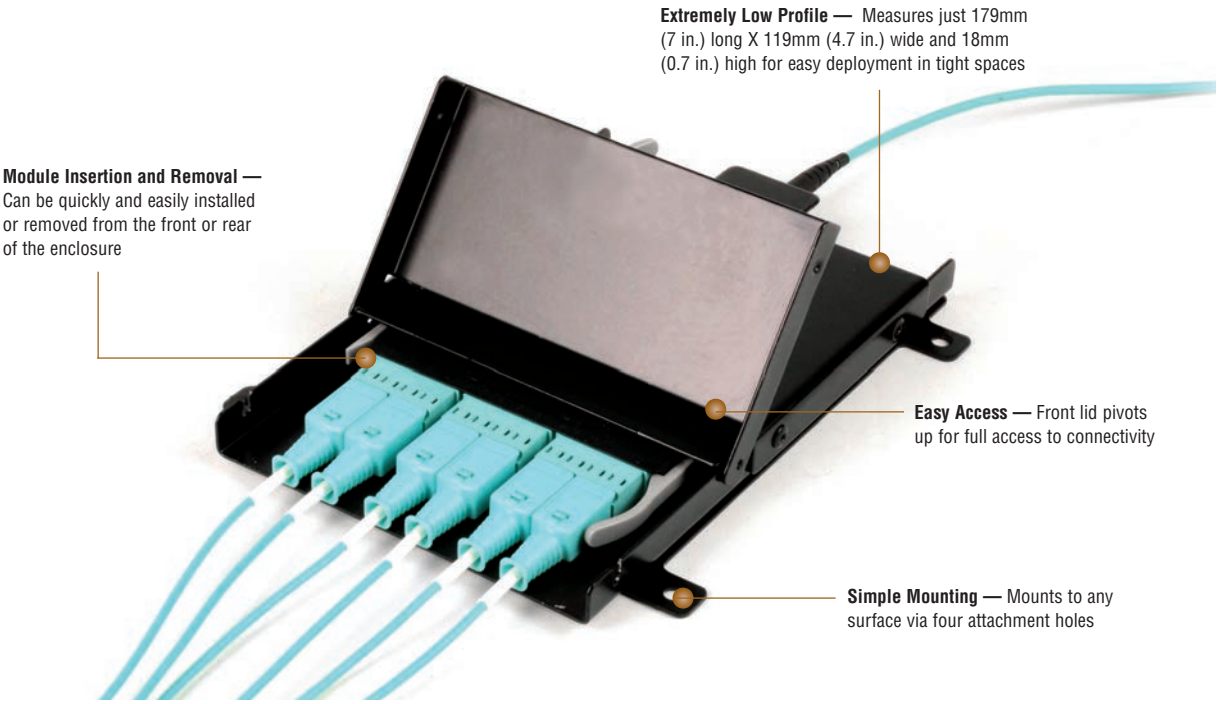
Ordering Information:

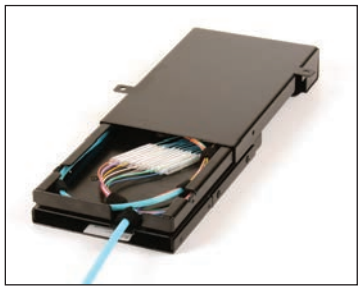
LS-LC12-01C-(XX)

Adapter Colour
BG = Beige
AQ = Aqua
EV = Erika Violet
BL = Blue

LightStack® Surface Mount Fibre Enclosure

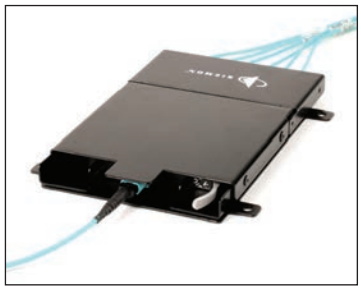
The Siemon LightStack Surface Mount Fibre Enclosure houses a single LightStack MTP to LC Module or an LC or MTP pass through adapter plate. Ideal for fibre distribution in a variety of tight spaces, the LightStack Surface Mount Enclosure can be easily mounted to walls, under floors or above the ceiling. It supports an optional splice accessory for fusion splicing and cable slack storage. The LightStack Surface Mount Fibre Enclosure enables the deployment of fibre consolidation points or zone distribution points that simplify moves, adds and changes by significantly reducing installation time and disruption. Rather than longer home run cabling links, MTP plug and play fibre assemblies can easily connect to the enclosure and then shorter MTP or LC fibre assemblies are used to connect from the enclosure to devices. For example, the LightStack Surface Mount Enclosure is ideal for placement under the floor to connect to banks of slot machines in a casino environment. It can also be used in passive optical network applications to distribute fibre from MTP splitters to optical network terminals or in other FTTX applications.





Optional Splice Enclosure — Mounts below main enclosure for managing slack and protecting single or mass fusion splices.

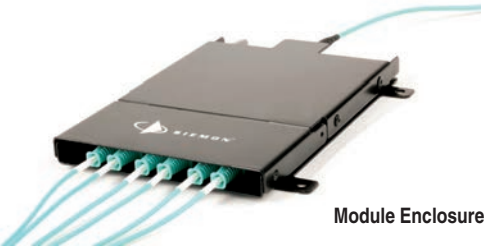
Mounting Applications — Mounts easily in tight spaces (e.g., under raised floors) for distributing fibre in a variety of applications and environments.



Plug and Play — LightStack MTP to LC module (not included) accepts an MTP trunk cable at the rear for fast deployment and pathway space savings.

Ordering Information

Part #	Description
LSE-01	LightStack® surface mount module enclosure, accepts one (1) LightStack module/adapter plate



Module Enclosure

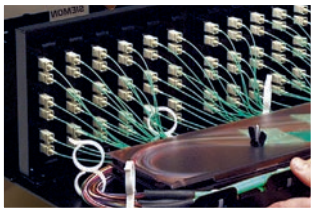
Part #	Description
LSS-01	LightStack surface mount splice enclosure, supports slack storage and up to 12 standard splices or up to 72 mass fusion splices

Splice Enclosure

	Module Enclosure	Splice Enclosure
Height	18mm (0.7 in.)	32mm (1.3 in.)
Width	119mm (4.7 in.)	119mm (4.7 in.)
Length	179mm (7.0 in.)	194mm (7.7 in.)
Weight	0.57kg (1.25 lb)	0.68kg (1.5 lb)
Colour	Black	Black
Material	Cold rolled steel	Cold rolled steel

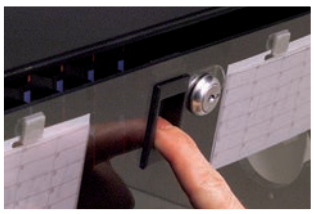
Rack Mount Interconnect Centre (RIC3)

The RIC3 provides the best overall value for exceptional fibre management. The RIC3 enclosure offers superior fibre density without sacrificing fibre protection and accessibility. Features include a fully removable tray, improved labeling, standard front and rear door locks, and single-finger door latches. With superior cable management, port identification, fibre accessibility and security, the RIC3 is the best way to protect mission critical fibre connections.



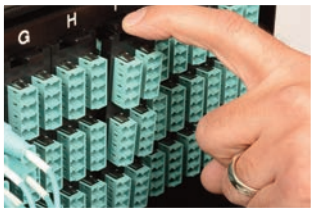
Removable Tray

The RIC3 cable management tray is fixed in place, but can be removed from the front or rear of the enclosure and moved to a work table for greater convenience.



Latching and Locking

The RIC3 features a single-finger latch on both front and rear doors. Front and rear doors include a lock for added security.



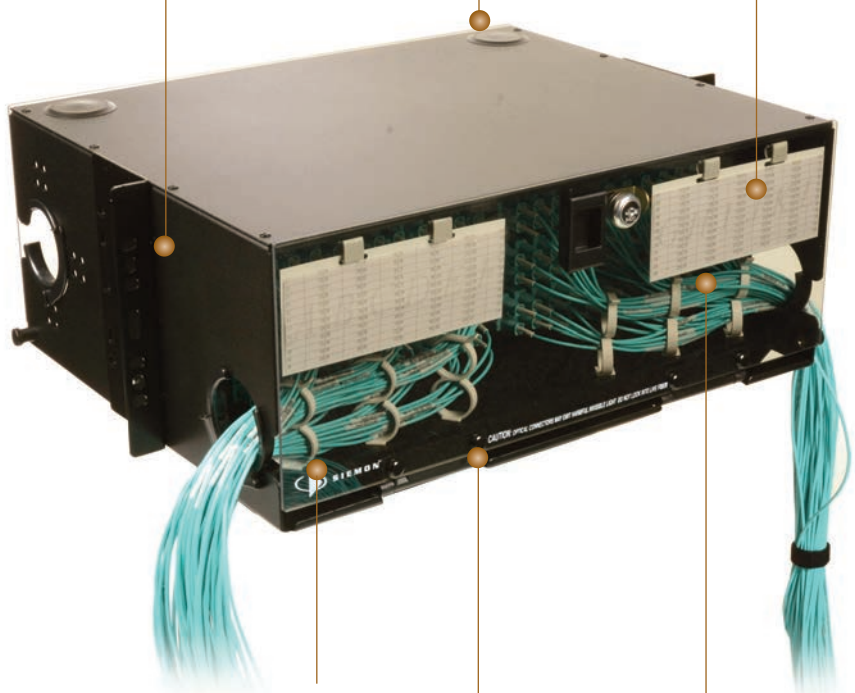
Quick-Pack® Adapter Plates

Siemon Quick-Pack adapter plates can be inserted or removed with a single-finger latch for quick and easy access to fibre connections.

Superior Design — Top and bottom access holes located at the rear of the enclosure allow fibres to be routed between tandem enclosures without having to run fibres outside of the enclosure

Enhanced Labeling — Label virtually any port configuration with our hinged labels. The labels hang on the front door for improved visibility. When the door is opened, labels flip down allowing ready viewing of the label and corresponding ports

Complete Access — Management tray has a positive stop in both front and rear working positions providing complete access for moving, adding, changing, or cleaning of fibre connections



Rotating Grommets — Patented rotating grommets facilitate loading and retention of jumpers and fibre while minimising microbending stress when using the sliding tray

Quick-Release Hinges — Spring loaded quick-release hinges enable easy opening and removal of front and rear doors for complete access to fibre connections

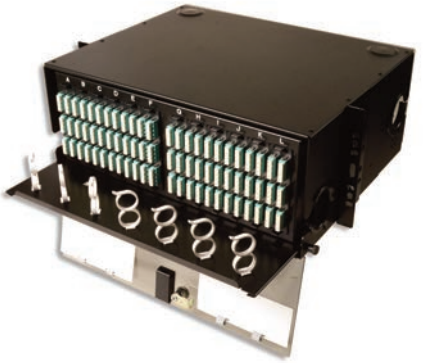
Maximum Capacity — The RIC3 enables a maximum amount of fibres to be patched or patched and spliced in a 2, 3, and 4U enclosure without compromising accessibility. This allows more efficient utilisation of rack space

Rack Mount Interconnect Centre (RIC3)

Siemon RIC3 enclosures are designed for enhanced fibre management and ease of use. They are compatible with an array of Siemon fibre Quick-Pack® and MTP adapter plates for your choice of fibre adapters and port density.

Part #	Description
RIC3-24-01	24- to 96-fibre (384 fibres with MTP adapter plates) Rack Mount Interconnect Centre, accepts (4) Quick-Pack adapter plates, 2U, black *height: 86.6mm (3.4 in.)* *width: 432mm (17.0 in.)* *depth: 380mm (15.0 in)*

Part #	Description
RIC3-36-01	36- to 144-fibre (up to 576 fibres with MTP adapter plates) Rack Mount Interconnect Centre, accepts (6) Quick-Pack adapter plates, 2U, black *height: 86.6mm (3.4 in.)* *width: 432mm (17.0 in.)* *depth: 380mm (15.0 in)*



RIC3-48-01 . . . . . 48- to 192-fibre (up to 768 fibres with MTP adapter plates)
Rack Mount Interconnect Centre, accepts (8)
Quick-Pack adapter plates, 3U, black
height: 133mm (5.2 in.)
width: 432mm (17.0 in.)
depth: 380mm (15.0 in)

RIC3-72-01 . . . . . 72- to 288-fibre (up to 1152 fibres with MTP adapter plates)
Rack Mount Interconnect Centre, accepts (2)
Quick-Pack adapter plates, 4U, black
height: 178mm (7.0 in.)
width: 432mm (17.0 in.)
depth: 380mm (15.0 in)

Note: 1U = 44.5mm (1.75 in.)

Note: All RIC products include laser-printable labels, cable ties, rack-mounting hardware, and pre-installed fibre management clips.*

*Visit www.siemon.com for labelling software.

MAXIMUM RIC3 FIBRE CAPACITY

# Fibres per Quick-Pack	Adapter Options	RIC24	RIC36	RIC48	RIC72
6	ST, SC	24	36	48	72
8	ST, SC	32	48	64	96
12	ST, SC, LC	48	72	96	144
16	LC	64	96	128	192
24	LC	96	144	192	288
96	MTP	384	567	768	1152

MAXIMUM SPLICING CAPACITY

Splice Type	RIC24	RIC36	RIC48	RIC72
Fusion	96	96	96	144

Wall Mount Interconnect Centre (SWIC3)

The Wall Mount Interconnect centre(SWIC3) is a cost-effective fibre enclosure designed to manage and protect up to 192 fibres using SC, ST or LC adapter plates and up to 768 with MTP adapter plates. The low-profile, compact design makes it ideal for telecommunications rooms or other installation areas where wall space is a premium. The adapter mounting method is based on Siemon's Quick-Pack® adapter plates also used in the family of Rack Mount Interconnect Centres (RIC3).

Door Options — Doors on enclosure and jumper guard can be ordered with independent key lock or latching options

Convenient Labelling — Convenient labelling system includes removable clear label holders for storing and protecting fibre documentation on each door

Available with Quick-Pack Adapter Plates — Quick-Pack adapter plates are available with SC, ST, LC or MTP adapters

Fibre Jumper Guard — Integrated hinged fibre guard provides independent protection and management for fibre jumpers

Accessories — Dust-proofing grommets included

Optional Splice Tray Bracket — Optional bracket available for mounting multiple splice trays (not shown)

Patented rotating grommets — Facilitate loading and retention of jumpers for extended SWIC only (SWIC3G-E)

SWIC3G-E

Easy Access
Doors on enclosures and jumper guard swing open a full 180° to provide complete front and side access.

SWIC3-M, SWIC3, SWIC3G
Dual-Level Fibre Managers incorporate two independent levels of storage to enable fibre to be routed at levels that correspond to the adapters.

SWIC3G-E
Utilises Expanded Depth Fibre Managers to control greater capacity of fibre.

Snap-In Adapter Plates
Utilises same Quick-Pack adapter plates as RIC3 enclosures with integrated latches for snap-in installation and single-finger removal.

Ordering Information:

Part # **Description**

SWIC3-M-01*.....Mini Wall Mount Interconnect Centre, black, accepts 2 Quick-Pack® adapter plates
height: 218.4mm (8.6 in.)
width: 185.4mm (7.3 in.)
depth: 82.6mm (3.25 in.)

** Does not accept splice trays*

SWIC3-(X)-01..... Wall Mount Interconnect Centre, black. Includes dual-level fibre managers, port designation labels and removable pocket, dust-proofing grommets, strain relief hardware, cable ties, and mounting hardware, accepts 4 Quick-Pack adapter plates
height: 311mm (12.25 in.)
width: 311mm (12.25 in.)
depth: 82.6mm (3.25 in.)

SWIC3G-(X)(X)-01.....Wall Mount Interconnect Centre with integrated jumper guard, black. Includes dual-level fibre managers, port designation labels and removable pocket, stick-on port designation labels for guard, dust-proofing grommets, strain relief hardware, cable ties, and mounting hardware, accepts 4 Quick-Pack adapter plates
height: 311mm (12.25 in.)
width: 406mm (16 in.)
depth: 82.6mm (3.25 in.)

SWIC3G-E-(X)(X)-(XX).....Wall Mount Interconnect Centre with integrated jumper guard, black. Includes dual-level fibre managers, port designation labels and stick on holder for front and rear dust-proofing grommets, strain relief hardware, cable ties and mounting hardware, accepts 8 Quick-Pack adapter plates
height: 355mm (14.0 in.)
width: 595mm (23.5 in.)
depth: 165mm (6.5 in.)

Use (XX) to specify colour: 01 = Black, 80 = Ivory

Use 1st (X) to specify type of lock on the enclosure (left) door:
A = Key Lock, C = Thumb-turn Latch
Use 2nd (X) to specify type of lock on the guard (right) door:
A = Key Lock, C = Thumb-turn Latch

MAXIMUM SWIC3 FIBRE CAPACITY

# Fibres per Quick-Pack	Adapter Options	SWIC3-M	SWIC3	SWIC3G-E
6	ST, SC	12	24	48
8	ST, SC	16	32	64
12	ST, SC	24	48	96
16	LC	32	64	128
24	LC	48	96	192
96	MTP	192	384	768

MAXIMUM SPLICING CAPACITY

Splice Type	SWIC3	SWIC3G-E
Fusion	48	96

Accessories

Fibre Splice Tray Brackets

Part # **Description**

TRAY-B-01.....Bracket for mounting splice trays to SWIC3 base

TRAY-EB-01..... Bracket for mounting splice trays to SWIC3G-E base

Fibre Splice Trays

Part # **Description**

TRAY-M-3.....Mini splice tray for up to 12 fusion splices with sleeve protection

Fibre Adapter Bracket

Part # **Description**

SWIC3G-E-BRKT..... Bracket holds up to 4 FSC series Siemon fibre splitter cassettes (front leg exit only)

MAXIMUM SWIC3G-E FIBRE SPLITTER CAPACITY

Type/Ratio	# Cassettes	Output		Input	
SC	**# Cassettes**	**# RIC-F-SC(X)8-01**	**# Ports**	**# MX-F1-SC(X)-(XX)**	**# Ports**
1x8	4	4	32	4	4
1x16	4	8	64	4	4
Dual (2) 1x16	3	6	48	6	6
1x32	2	8	64	2	2
LC	**# Cassettes**	**# RIC-F-LC(X)16-01**	**# Ports**	**# MX-F1-LC(X)-(XX)**	**# Ports**
1x8	4	2	32	4	4
1x16	4	4	64	4	4
Dual (2) 1x16	3	3	48	6	6
1x32	4	8	128	4	4
MTP	**# Cassettes**	**# RIC-F-MP48-01**	**# Ports**	**# MX-F1-MP-(XX)**	**# Ports**
1x32	4	4	128	4	4

Fibre Connect Panel (FCP3)

Siemon's popular Fibre Connect Panels (FCP3-DWR and FCP3-RACK) economically connect, protect, and manage up to 72 fibres in 1U (up to 288 fibres with MTP to MTP adapters). It accepts Siemon's Quick-Pack® adapter plates with patented single-finger access. The FCP3-DWR makes access to the connections easy via a fixed tray that can be released and slid out of the front or rear of the enclosure.

High Density
FCP3 enclosures accommodate up to 72 fibres (288 with MTP adapter plates) in only 1U

Sliding Tray
The FCP3-DWR (drawer version) features a tray that slides out from the front or rear, providing easy access to fibre connections. The entire tray can be removed and placed on a work table for more convenience.

Lanced Tabs — Provide convenient cable anchor points for incoming jacketed fibre cable

Up to 3 Optional Splice Trays — Can be mounted to manage and protect either mechanical or fusion splices

Label Holder — Protects fibre jumpers and is readily removable via release of factory-installed snap-latches

Rear Fibre Clips — Manage cable slack while maintaining minimum bend radius requirements

Front Fibre Clips — Manage up to 36 duplex fibre jumpers (72 fibres total) or 24-, 12-fibre MTP trunks

MAXIMUM FCP3 FIBRE CAPACITY

# Fibres per Quick-Pack	Adapter Options	FCP3
6	ST, SC	18
8	ST, SC	24
12	ST, SC, LC	36
16	LC	48
24	LC	72
96	MTP	288

MAXIMUM SPLICING CAPACITY

Splice Type	FCP3
Fusion	72

Fibre Connect Panel (FCP3)

Part #	Description
FCP3-DWR	6- to 72-fibre (up to 288 fibres with MTP adapter plates) Fibre Connect Panel with sliding tray, accepts (3) Quick-Pack® adapter plates, 1U, black. Includes mounting brackets, housing/tray, fibre managers, grommets, label holders, and labels *height: 43.2mm (1.7 in.)* *width: 482.6mm (19 in.)* *depth: 355.6mm (14 in.)*
FCP3-RACK	6- to 72-fibre (up to 288 fibres with MTP adapter plates) Fibre Connect Panel with fixed tray, accepts (3) Quick-Pack adapter plates, 1U, black. Includes mounting brackets, housing/cover, fibre managers and grommet *height: 43.2mm (1.7 in.)* *width: 482.6mm (19 in.)* *depth: 241.3mm (9.5 in.)* *Note: 1U = 44.5 mm (1.75 in.)*

FCP3-DWR

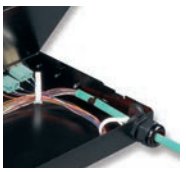
FCP3-RACK

Compression Fittings

Compression fittings are utilized as an enhanced method for securing cables to FCP3 fibre enclosures. Acme threads on the body prevent skipping, allowing for faster installations of lock-nuts.

Part #	Description
CF-(XX)	Compression fitting

Use (XX) to specify fibre diameter:
40 = 5.8 – 13.9mm, (0.22 in. - 0.5 in.)
51 = 11.4 – 18.0mm (0.44 - 0.7 in.)
60 = 15.0 - 25.4mm (0.59 - 1 in.)



Splice Trays (XGLO® and LightSystem®)

These aluminium trays come with a clear, snap-on polycarbonate cover and can be stacked for high-density applications. The standard tray holds up to 24 splices. The mini-tray for use with the SWIC3, accommodates up to 12 splices.

Part #	Description
TRAY-3	Standard splice tray for up to 24 fusion splices with sleeve protection. For use with RIC3 and FCP3 fibre enclosures
TRAY-M-3	Mini splice tray for up to 12 fusion splices with sleeve protection.

Standard Tray Dimensions
height: 103mm (4 in.)
width: 298mm (11.7)
depth: 8.13mm (0.32 in.)

TRAY-3

Mini Tray Dimensions
height: 103mm (4 in.)
width: 179mm (7.04 in.)
depth: 8.13mm (0.32 in.)

TRAY-M-3

Heat Shrink Sleeves

Heat shrink sleeves provide a safe and efficient method for protecting fusion splices on either 250 or 900 micron coated fibres. Heat shrink sleeves are threaded on to fibres prior to fusion splicing and then positioned directly over splice and heated via an oven or heat gun.*

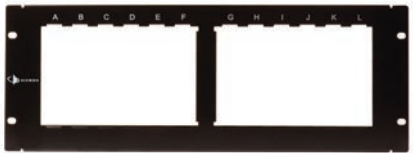
Part #	Description
HT-40	40mm (1.57 in.) Heat shrink sleeve
HT-60	60mm (2.36 in.) Heat shrink sleeve

**Heating times may vary depending on heat source.*

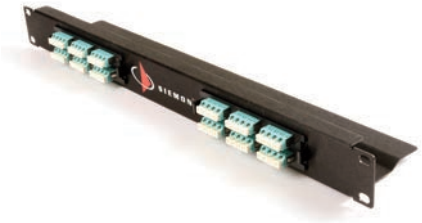
RIC Fibre Panels

Siemon RIC Fibre panels are ideal for use with racks, cabinets, wall mount cabinets, zone enclosures and ceiling enclosures to support various fibre applications in Data Centres, LANs (Local Area Networks) and PONs (Passive Optical Networks). The RIC panels are available in 1U and 4U sizes, 19 inch rack mount and accept Siemon's Quick-Pack® fibre adapter plates, modules and cassettes.

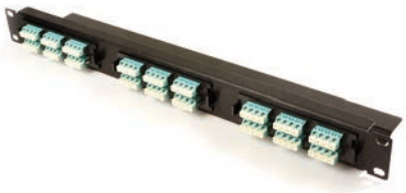
Ordering Information:



Part #	Description
RIC-PNL12-4U-01.	12 Quick-Pack openings, silkscreen port identification, includes mounting hardware and expanded depth rear fibre managers Colour: black, Material: steel, 4U



Part #	Description
RIC-PNL2-1U-01.	2 Quick-Pack openings, includes mounting hardware Colour: black, Material: aluminium, 1U



Part #	Description
RIC-PNL3-1U-01.	3 Quick-Pack openings, includes mounting hardware Colour: black, Material: aluminium, 1U

Quick-Pack® Adapter Plates

Siemon's patented Quick-Pack adapter plates feature an integrated latch, which provides single-finger access to fibre even in fully populated enclosures.

XGLO® & LightSystem®

RIC-F-SC6-01. . . . . .
3 Duplex SC adapters
(6 fibres)

RIC-F-SCQ6-01. . . . . .
3 Duplex SC adapters
(6 fibres), aqua adapters
(not shown)

RIC-F-SCE6-01. . . . . .
3 Duplex SC adapters
(6 fibres), erika violet adapters
(not shown)

RIC-F-SC8-01. . . . . .
4 Duplex SC adapters
(8 fibres)

RIC-F-SCQ8-01. . . . . .
4 Duplex SC adapters
(8 fibres), aqua adapters
(not shown)

RIC-F-SCE8-01. . . . . .
4 Duplex SC adapters
(8 fibres), erika violet adapters
(not shown)

RIC-F-SC12-01. . . . . .
6 Duplex SC adapters
(12 fibres)

RIC-F-SCQ12-01. . . . . .
6 Duplex SC adapters
(12 fibres), aqua adapters
(not shown)

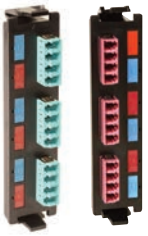
RIC-F-SCE12-01. . . . . .
6 Duplex SC adapters
(12 fibres), erika violet adapters
(not shown)

RIC-F-LC12-01C. . . . . .
3 Quad LC adapters
(12 fibres), beige adapters
(not shown)

RIC-F-LCU12-01C. . . . . .
3 Quad LC adapters
(12 fibres), blue adapters
(not shown)

RIC-F-LCQ12-01C. . . . . .
3 Quad LC adapters
(12 fibres), aqua adapters

RIC-F-LCE12-01C. . . . . .
3 Quad LC adapters
(12 fibres), erika violet adapters

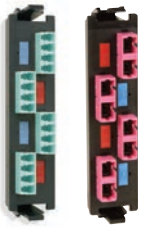


RIC-F-LC16-01C. . . . . .
4 Quad LC adapters
(16 fibres), beige adapters
(not shown)

RIC-F-LCU16-01C. . . . . .
4 Quad LC adapters
(16 fibres), blue adapters
(not shown)

RIC-F-LCQ16-01C. . . . . .
4 Quad LC adapters
(16 fibres), aqua adapters

RIC-F-LCE16-01C. . . . . .
4 Quad LC adapters
(16 fibres), erika violet adapters

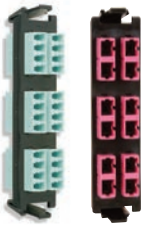


RIC-F-LC24-01C. . . . . .
6 Quad LC adapters
(24 fibres), beige adapters
(not shown)

RIC-F-LCU24-01C. . . . . .
6 Quad LC adapters
(24 fibres), blue adapters
(not shown)

RIC-F-LCQ24-01C. . . . . .
6 Quad LC adapters
(24 fibres), aqua adapters

RIC-F-LCE24-01C. . . . . .
6 Quad LC adapters
(24 fibres), erika violet adapters



LightSystem

RIC-F-SA6-01. . . . . .
3 Duplex ST adapters
(6 fibres)

RIC-F-SA8-01. . . . . .
4 Duplex ST adapters
(8 fibres)

RIC-F-SA12-01. . . . . .
6 Duplex ST adapters
(12 fibres)*

RIC-F-BLNK-01. . . . . .
Blank adapter plate

* *Only recommended for push-pull ST connectors due to limited access*

Each adapter plate with icon pockets includes red, blue, black, and clear icons with paper labels. All SC and ST adapters are "universal" to support Multimode and Singlemode.

Fibre Management Tray (FMT)

The Siemon Fibre Management Tray (FMT) is an economical solution for managing fibre cable slack and splice trays. The management tray has been designed to easily retrofit any standard 1 RMS CT® or MAX® Series Patch Panel and can organise up to 32 fibres. The tray is only 254mm deep, allowing it to readily fit into cabinet enclosures. Each enclosure can accept up to two fibre splice trays.

Part #	Description	RMS
CT-FMT-16.	Fibre tray for 1U CT or MAX Panel.	1

Note: 1U = 44.5mm

Plug and Play Modules and Adapter Plates

Siemon Plug and Play Modules

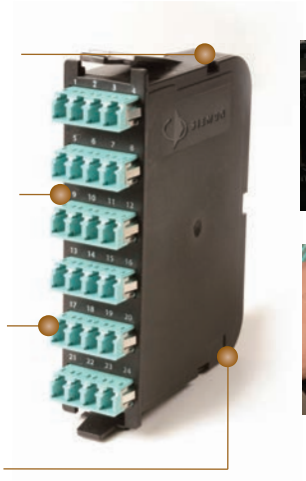
Siemon LC to MTP® and SC to MTP Plug and Play modules provide a quick and efficient way to deploy up to 24 LC or 12 SC fibres in a single module. These factory terminated and tested ports are protected within the housing for reliable high performance and simply connected via 12-strand MTP ports. Modules are available in Multimode (62.5/125 and laser optimised 50/125 OM3/OM4) and Singlemode cable.

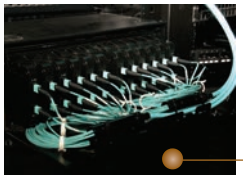
Compact Housing — Reduces mounting depth for greater cable management space within enclosures

Optimised Adapter Spacing — Enables easy finger access to fibre jumper connector latches in high density patching environments

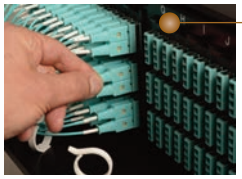
Durable and Lightweight — High-impact molded plastic body with single-finger access

Multimode and Singlemode Modules — Utilize zirconia ceramic sleeves for optimum performance





Recessed Base — Allows cable to be fit under the modules for added cable management space when installed in the horizontal orientation (i.e. within FCP drawer)



Compatible with Existing Siemon Enclosures — Fits within RIC, FCP and SWIC Siemon fibre enclosures and VersaPOD® vertical patch panels

PP2-12-(XX)(X)-01(X). . . . . 12 Fibre P&P Module with 1 MTP port, black module

Interface
LC = LC
SC = SC

Fibre Type
6 = OM1, 62.5/125 Multimode Beige adapters
5L = OM3, XGLO 300 50/125 Multimode Aqua adapters
5V = OM4, XGLO 550 50/125 Multimode Aqua adapters
EV = OM4, XGLO 550 50/125 Multimode Erika Violet adapters
SM = OS1/OS2, Singlemode Blue adapters

Configuration
L = Low Loss
Blank = Standard Loss

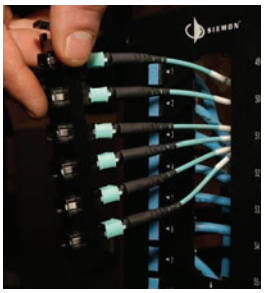
PP2-24-LC(X)-01(X). . . . . 24 Fibre LC P&P Module with 2 MTP ports, black module

Fibre Type
6 = OM1, 62.5/125 Multimode Beige adapters
5L = OM3, XGLO 300 50/125 Multimode Aqua adapters
5V = OM4, XGLO 550 50/125 Multimode Aqua adapters
EV = OM4, XGLO 550 50/125 Multimode Erika Violet adapters
SM = OS1/OS2, Singlemode Blue adapters

Configuration
L = Low Loss
Blank = Standard Loss

MTP to MTP Adapter Plates

Siemon MTP Adapter Plates offer a user friendly "pass-through" option for MTP connectors. Fitting within Siemon's fibre enclosures and VersaPOD vertical patch panels, these plates secure MTP connectors, allowing efficient implementation of MTP to MTP reels and extenders as well as MTP to LC Trunks for direct equipment and patching connections.



High Density
Supports up to 96 fibres per adapter plate - providing up to 1152 fibres in 4U

Flexible Configurations
1, 2, 4, 6 and 8 port versions available, supporting both Singlemode and Multimode

40 Gb/s and 100 Gb/s Ready
Enables simple upgrade path to future 40 Gb/s and 100 Gb/s applications over Multimode 50/125 laser optimised fibre

Popular RIC Adapter Footprint
Fits within RIC, FCP and SWIC Siemon fibre enclosures and VersaPOD vertical patch panels

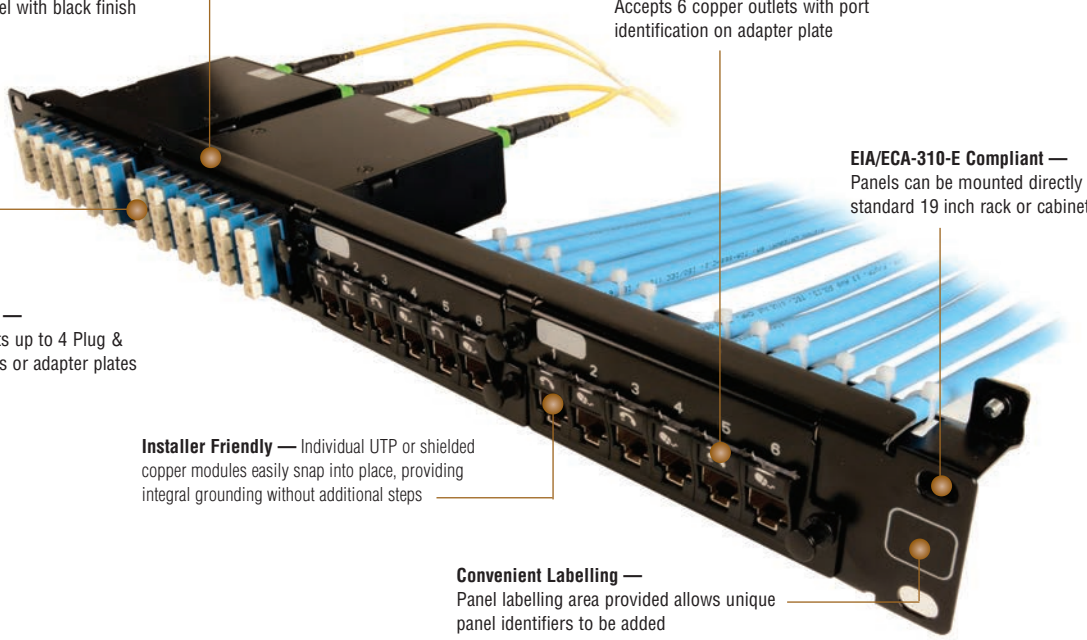
RIC-F-MP(XX)-01-(X). . . . . MTP adapter plate

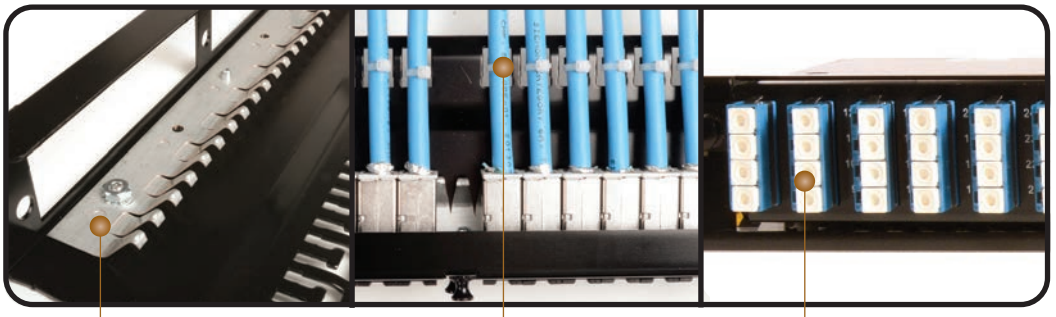
Fibre Count
12 = 12 (1 MTP adapter)
24 = 24 (2 MTP adapters)
48 = 48 (4 MTP adapters)
72 = 72 (6 MTP adapters)
96 = 96 (8 MTP adapters)

Key Orientation
Blank = Opposed (key up to key down) Black adapters
Q = Opposed (key up to key down) Aqua adapters
E = Opposed (key up to key down) Erika Violet adapters
B = Aligned (key up to key up) Grey adapters

Copper/Fibre Combo Panel

Siemon's Copper/Fibre Combo Panel provides users with exceptional versatility and robustness. The Combo Panel allows copper outlets to be mixed in the same rack mount space as fibre plug and play modules. The compact 1U design offers integrated cable management features and supports Category 5e to 7_A and all Multimode and Singlemode fibre applications.





Installer Friendly — Panels feature an integrated grounding strip to ensure proper ground path from copper outlets to grounding point

Cable Management — Built in cable manager provides ability to secures cables for proper strain relief

Plug & Play — Panels utilise the Plug & Play adapter modules that utilise NY-LATCH (push-pull adapters) for ease of installation

Ordering Information:

Part #	Description
PPM-SPNL4-01	PNL, high density, shielded copper/fibre combo, 1U, black

Part #	Description
PPM-SMX6-01	Copper adapter plate, 6-port, black

Panels include tie-wraps, grounding kit, and mounting screws.

High Density 1U Fibre Connect Panel System

High-Density FCP3 Fibre Connect Panel

Economically connect, protect and manage up to 96 fibres within 1 rack mount unit. Designed to integrate with high density FCP3 fibre Plug and Play modules.

High Density
Supports up to 96 fibres in just 1U

Enhanced Accessibility
Fibre drawer slides to the front and rear for maximum access to fibre connections

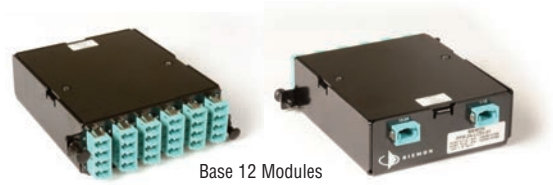
Bend Radius Management
Recessed modules provide a high-capacity jumper management zone that helps maintain proper fibre bend radius

Part #	Description
FCP3-DWR-4A.	High-density FCP3 fibre enclosure, black, 1U

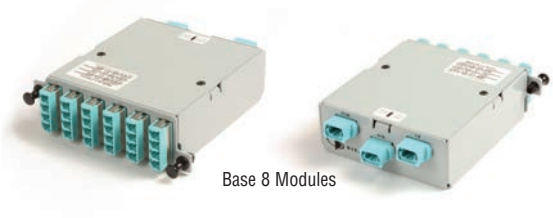
Note: Maximum fusion splice capacity is 72 fibres.

High Density FCP3 Connect Panel Plug and Play Modules and Adapter Plates

Siemon LC to MTP® FCP3 Plug and Play modules and LC adapter plates are designed for simple, snap-in deployment within the high density FCP3 Fibre Connect Panel. Providing up to 24 LC fibres per module, the factory terminated and tested modules are available in OM3 and OM4 multimode and singlemode configurations. The LC adapter plates provide a simple way to integrate traditional LC to LC connectivity within the high density FCP3 enclosure.



Base 12 Modules



Base 8 Modules

Adapter Plates

High Density
Modules provide up to 24 LC fibres per module, supporting up to 96 ports within the 1U FCP3 Fibre Connect Panel

100% Fibre Utilisation and Future Application Support
Base 8 modules feature three 8-fibre MTPs for use with 8-fibre assemblies used in 40 and 100 Gig applications and beyond, eliminating the need for conversion cords

Fast Deployment
Snap-in mounting and multi-fibre MTP connectivity offers ultra-fast deployment of high-performance fibre channels

Easy Identification
Modules are colour coded black for Base 12 and grey for Base 8 to easily distinguish between the two systems

Compact Housing
Reduces mounting depth for greater cable management space within enclosures

Optimised Adapter Spacing
Enables easy finger access to fibre jumper connector latches in high density patching environments

Multimode and Singlemode Modules
Utilises zirconia ceramic sleeves for optimum performance

High Density 1U Fibre Connect Panel System

Ordering Information:

Base 12 Modules

PPM-(XX)-LC(XX)-01(X). . . . . Base 12 HD FCP3 LC to MTP modules, black module

Fibre Count
12 = 12 Fibres
24 = 24 Fibres

Fibre Type
5L = OM3, XGLO 300 50/125 Multimode Aqua adapters
5V = OM4, XGLO 550 50/125 Multimode Aqua adapters
EV = OM4, XGLO 550 50/125 Multimode, Erika Violet adapters
SM = OS1/OS2, Singlemode Blue adapters

Peformance
Blank = Standard Loss
L = Low Loss (OM3/OM4 only)

Base 8 Modules

PEM(X)24-LC(X)(X)-(XX)A. . . . 24 Fibre base 8 HD FCP3 LC to MTP modules, grey module

Gender
F = Female
M = Male

Performance
S = Standard Loss
L = Low Loss (OM3/OM4 only)

Polarity
AC = Method A or C
B1 = Method B (Side 1)
B2 = Method B (Side 2)

Fibre Type
L = OM3 XGLO 300 50/125 Multimode, Aqua adapters
V = OM4 XGLO 550 50/125 Multimode, Aqua adapters
EV = OM4, XGLO 550 50/125 Multimode, Erika Violet adapters
A = OS1/OS2 Singlemode, Blue adapters

Adapter Plates

PPM-F-LC(X)(XX)-01. . . . . High-density FCP3 LC adapter plates, black

Adapter Colour
Blank = Beige
Q = Aqua
E = Erika Violet
U = BLue

Fibre Count
12 = 12 Fibres
24 = 24 Fibres

PPM-F-MP(XX)-01-(X). . . . . High-density FCP3 MTP adapter plates, black

Fibre Count
12 = 1 Port
24 = 2 Port
48 = 4 Port
72 = 6 Port
96 = 96 Fibre

Adapter Colour/Key Orientation
Q = Aqua - Opposed
E = Erika Violet - Opposed
B = Grey - Aligned
Blank = Black - Opposed

PERFORMANCE SPECIFICATIONS (STANDARD)

Fibre Type		MAX Insertion (dB)		Min. Return Loss (dB)		Performance Class
		MTP	LC	MTP	LC	
5L-MM	50/125 10G (OM3)	0.40	0.25	20	30	XGLO® 300
5V-MM	50/125 10G (OM4)	0.40	0.25	20	30	XGLO 550
SM-LWP	SM (OS1/OS2)	0.60	0.40	60	55	XGLO

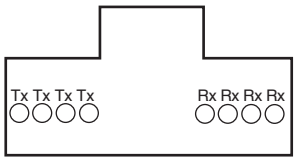
PERFORMANCE SPECIFICATIONS (LOW LOSS)

Fibre Type		MAX Insertion (dB)		Min. Return Loss (dB)		Performance Class
		MTP	LC	MTP	LC	
5L-MM	50/125 10G (OM3)	0.20	0.15	20	30	XGLO 300
5V-MM	50/125 10G (OM4)	0.20	0.15	20	30	XGLO 550

Part #	Description
PPM-BLNK.	Blank adapter plate, black

Base 8 Plug and Trunk Assemblies

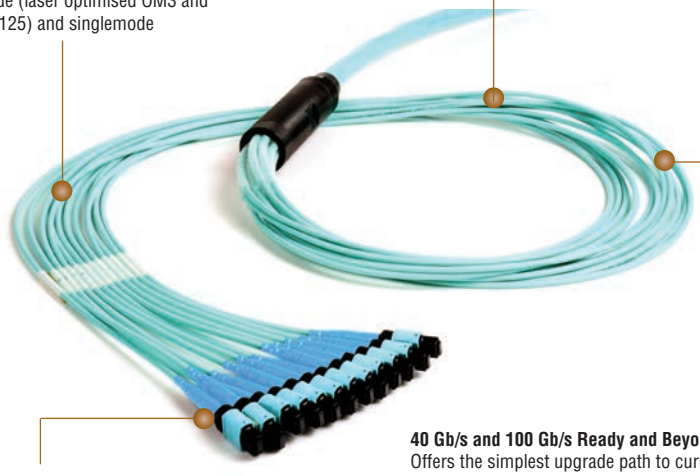
Combining Siemon's reduced-diameter RazorCore™ cable with 8-fibre MTP connectors, Base 8 Plug and Play MTP Trunk Assemblies are designed to be quickly routed and connected to Siemon Plug and Play Modules and MTP Adapter Plates. Custom configurable to precise application requirements, these Base 8 assemblies put high-performance, high density fibre connections exactly where you need them while providing more efficient migration to support high-speed 8-fibre applications.



40GBASE-SR4 8-Fibre and 100GBASE-SR4 8-Fibre MTP
(1) 8 strand MTP trunk is used for one link

Reduced Pathway Fill — Siemon's RazorCore cable has significantly reduced cable diameter

Multiple Fibre Types — Available in multimode (laser optimised OM3 and OM4 50/125) and singlemode



Low Loss Versions — Siemon's Plug and Play cable assemblies are also available in low loss multimode for multiple mated pairs in 10/40/100G applications

Custom Configurations — Available from 8 to 144 fibre counts in increments of 8 fibres

40 Gb/s and 100 Gb/s Ready and Beyond — Offers the simplest upgrade path to current and future 8-fibre applications

Easy Identification —Base 8 assemblies feature a blue boot to easily distinguish from Base 12 assemblies

Cost-Effective with 100% Fibre Utilisation — Base 8 MTP assemblies use 100% of fibre in 8-fibre applications, eliminating the need for conversion cords or modules

Ordering Information:

G(X)(XXX)(X)(XX)(X)(XXX)(X)-(X)..... Base 8 MTP to MTP assemblies, 8-fibre MTP connectors

Performance
R = Standard Loss (SM only)
L = Low Loss (OM3/OM4 only)

Fibre Count
8 = 8 Fibres
16 = 16 Fibres
24 = 24 Fibres
32 = 32 Fibres
48 = 48 Fibres
72 = 72 Fibres
96 = 96 Fibres
144 = 144 Fibres

Gender
– = Female
M = Male

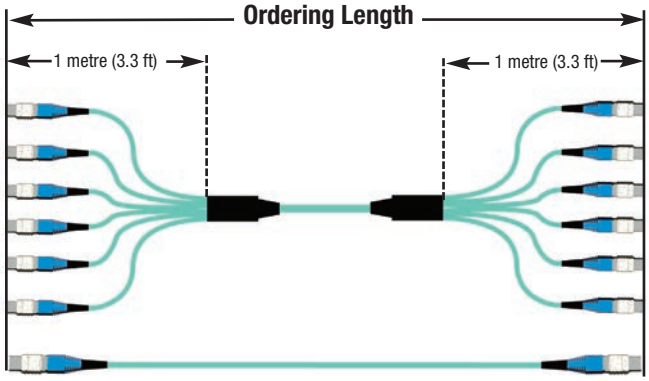
Fibre Type
5L = OM3 XGLO 300 50/125 Multimode, Aqua
5V = OM4 XGLO 550 50/125 Multimode, Aqua
EV = OM4, XGLO 550 50/125 Multimode, Erika Violet
SM = OS1/OS2 Singlemode, Yellow

Jacket Type
P = OFNP
R = OFNR
L = LSOH

Length*
Length must be 3 digits
Example: 005 = 5m
050 = 50 ft.

Length Unit
F = Feet
M = Metre

Polarity
A = Method A
B = Method B
C = Method C



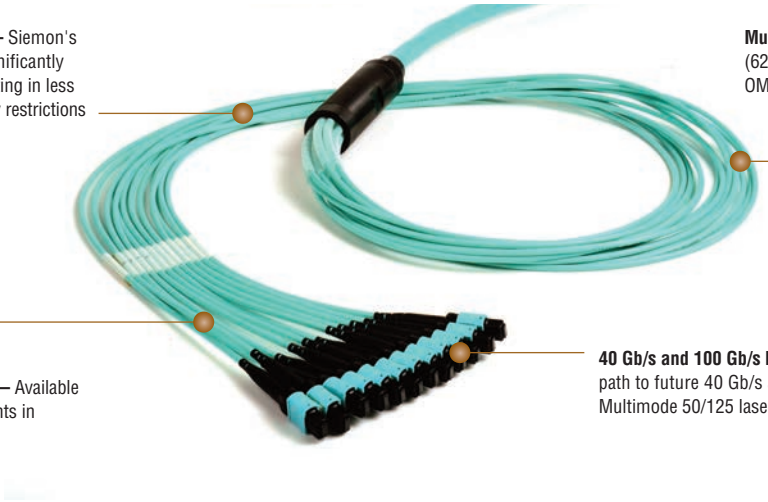
*** Order length is measured connector tip to connector tip. Multi-leg versions offered with standard 1 metre legs. Minimum order length is 1 metre for 8 strand and 3 metres for 24 strands or greater (See diagram above)*

Base 12 Plug and Play Cable Assemblies

Combining Siemon's reduced-diameter RazorCore™ cable with 12-fibre MTP connectors, Plug and Play Reels are designed to be quickly pulled and connected to Siemon Plug and Play Modules and MTP Adapter Plates. Custom configurable to precise application requirements, these reels efficiently put high-performance, high-density fibre connections exactly where you need them. Extenders offer Male MTP Connectors on one end and female MTP adapters on the other to allow field extension of MTP Reels.

Reduced Pathway Fill — Siemon's RazorCore cable has significantly reduced cable O.D. resulting in less cable tray fill and pathway restrictions

Multiple Fibre Types — Available in Multimode (62.5/125, and laser optimised 50/125 OM3/OM4) and Singlemode.



Custom Configurations — Available from 12 to 144 fibre counts in increments of 12 fibres

40 Gb/s and 100 Gb/s Ready — Enables simple upgrade path to future 40 Gb/s and 100 Gb/s applications over Multimode 50/125 laser optimised fibre

Ordering Information: Non-Armoured

F(X)(XX)-(XX)(X)(XXX)(X)-(X). . . . Fibre Plug & Play cable assembly, 12 fibre MTP connectors

Configuration
R = Standard Loss
L = Low Loss (OM3/OM4 only)
E* = Standard Loss Extender
B* = Low Loss Extender (OM3/OM4 only)

Fibre Count
12 = 12
24 = 24
36 = 36
48 = 48
72 = 72
96 = 96
144 = 144

Fibre Type
6 = OM1, 62.5/125 Multimode Orange
5L = OM3, XGLO 300 50/125 Multimode Aqua
5V = OM4, XGLO 550 50/125 Multimode Aqua
EV = OM4, XGLO 550 50/125 Multimode Erika Violet
SM = OS1/OS2, Singlemode Yellow

Jacket Rating
R = Riser
P = Plenum
L = LSOH

Length**
Length must be 3 digits
Example: 003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metres

Polarity Method (Per TIA-568-C.0)
A = Method A
B = Method B
C = Method C
Blank = Fibre Extender (FE and FB)

Ordering Information: Armoured

F(X)(XX)-(XX)(XX)(XXX)(X)(X). . . . Armoured Fibre Plug & Play cable reel assembly, 12 fibre MTP female connectors

Configuration
R = Standard Loss
L = Low Loss (OM3/OM4 only)

Fibre Count
12 = 12
24 = 24
36 = 36
48 = 48
72 = 72
96 = 96
144 = 144

Fibre Type
6 = OM1, 62.5/125 Multimode Orange
5L = OM3, XGLO 300 50/125 Multimode Aqua
5V = OM4, XGLO 550 50/125 Multimode Aqua
EV = OM4, XGLO 550 50/125 Multimode Erika Violet
SM = OS1/OS2, Singlemode Yellow

Jacket Rating
AR = Armoured Riser
AP = Armoured Plenum

Note: LSOH versions available. Contact Customer Service for details.

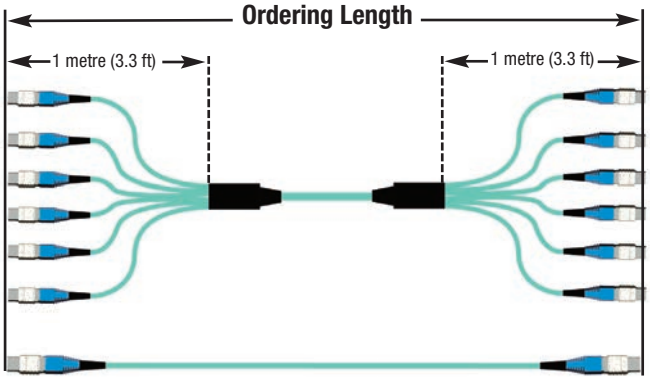
Length**
Length must be 3 digits
Example: 003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metres

Polarity Method (Per TIA-568-C.0)
A = Method A
B = Method B
C = Method C

** Fibre Extenders ship with MTP Adapter for quick transition.*

*** Order length is measured connector tip to connector tip. Multi-leg versions offered with standard 1 metre legs. Minimum order length is 1 metre for 12 strand and 3 metres for 24 strands or greater (See diagram at right)*



SIEMON™

Base 12 Next Generation MTP to MTP Trunks

Siemon's Next Generation MTP to MTP trunks are designed to achieve 45kg (99.2 lbs.) pull strength to handle more aggressive pathway environments. They come with a foamed zipper pulling eye for quick removal saving on installation time and are reusable if relocation of a trunk is required after the initial installation. They are available in 12/24 fibre counts and Low Loss options only.

- OM3/OM4 Bend Insensitive Fibre (BIF)
- SM Non-Bend Insensitive Fibre
- 12 and 24 Fibre strand counts
- Polarity methods A, B and C options
- Low Loss performance (0.20dB for Multimode MTP and 0.60dB for Singlemode MTP)
- Integrated breakout and zipper pulling eye work together to achieve 45kg (99.2 lbs.) tensile pull strength
- Zipper pulling eye allows for quicker installs
  - Allows pulling eyes to be reused when relocating trunks during MAC work

Ordering Information:

FR2-(X)-(X)(X)(XXX)(X)(X)

Strand Count
B = 12
C = 24

Fibre Type
L = OM3, XGLO 300 50/125 Multimode Aqua
V = OM4, XGLO 550 50/125 Multimode Aqua
E = OM4, XGLO 550 50/125 Multimode Erika Violet
A = OS1/OS2, Singlemode Yellow

Cable Type
P = Plenum
R = Riser
L = LSOH

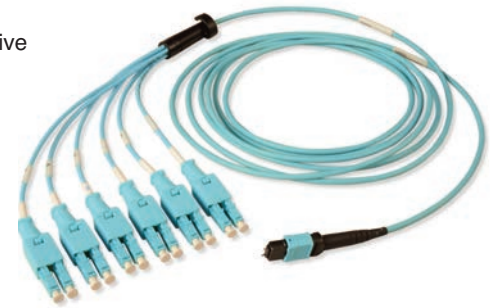
Polarity Method (Per TIA-568-C.0)
A = Method A
B = Method B
C = Method C

Length Unit
F = Feet
M = Metres

Length
Length must be 3 digits
Example:
003 = 3m
010 = 10 ft.

Base 12 MTP to LC BladePatch® Trunks

- LC BladePatch with push pull latch further improves accessibility
- Designed to facilitate an interconnect or cross connect point between active equipment
- OM3/OM4 Bend Insensitive Fibre (BIF)
- SM Non-Bend Insensitive
- 12 Fibre strand count
- Specific staggered lengths to active equipment
  - Nexus, Cisco MDS, Brocade and No stagger
- Low Loss performance 0.15 dB for LC and 0.20 dB for Multimode MTP
- Standard Loss performance 0.25 dB for LC and 0.60 dB for Singlemode MTP
- Integrated cable manager on breakout



Ordering Information:

T(X)2(X)(X)(X)(X)(X)(X)(XX)(XXX)(X)

Performance
L = Low Loss (OM3/OM4 Only)
F = Standard Loss (SM Only)

Strand Count
B = 12 Strand

Pulling Eye Option
A = MTP Side (Only available for length >5M
C = None

Fibre Type
L = OM3, XGLO 300 50/125 Multimode Aqua
V = OM4, XGLO 550 50/125 Multimode Aqua
E = OM4, XGLO 550 50/125 Multimode Erika Violet
A = OS1/OS2, Singlemode Yellow

Jacket Rating
P = Plenum
R = Riser
L = LSOH

MTP Gender
M = MTP Male
F = MTP Female

Stagger Type
1 = No Stagger
2 = Cisco 9512 & 9412
3 = Cisco NEXUS
4 = Brocade

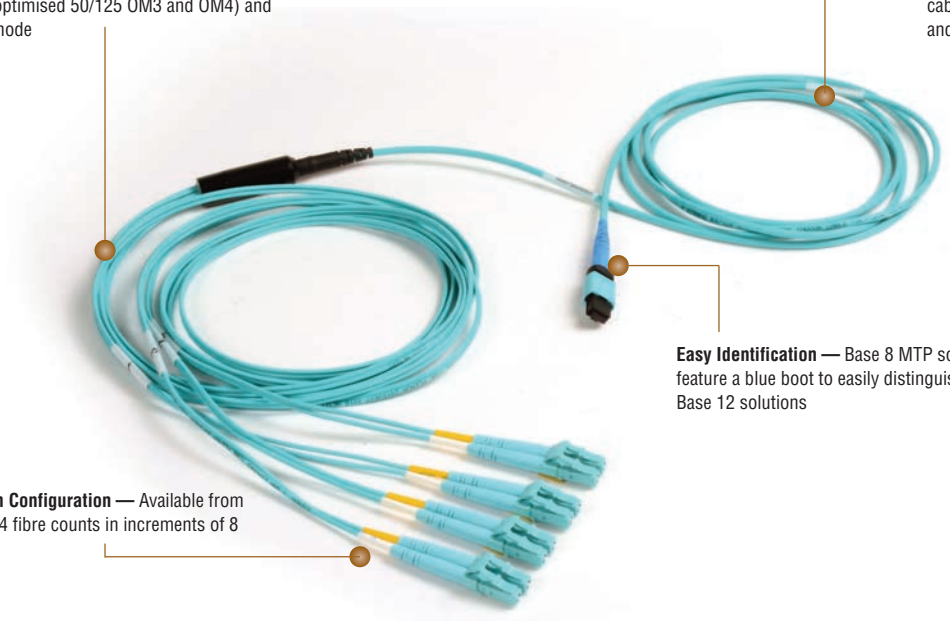
LC BP Connector
LB = RFP (OM3, OM4, SM/UPC)
BL = CFP (OM3, OM4, SM/UPC)

Length*
Length must be 3 digits
Example:
003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metre

Base 8 MTP® to LC Equipment Cords

Siemon Base 8 MTP to LC equipment cords offer a connectivity transition from 8-fibre MTP connectors to duplex LC connectors. Ideal to facilitate interconnects or cross connects between active equipment, these Base 8 MTP to LC cords may be implemented using Siemon's MTP to MTP Adapter Plates to provide direct MTP to LC patching options over a wide range of distances and infrastructure configurations.



Ordering Information:

G(X)(X)(X)(XX)(X)(XX)(XX)(XX)(X)..... Base 8 MTP to LC Trunk Equipment Cords

Performance
F = Standard Loss (SM only)
L = Low Loss (OM3/OM4 only)

Fibre Count
B = 8
C = 16
D = 24
E = 32
F = 48
G = 72
H = 96
J = 144

Pulling Eye
A = MTP Side (> 5m only)
C = None

Fibre Type
5L = OM3, XGLO 300 50/125 Multimode Aqua
5V = OM4, XGLO 550 50/125 Multimode Aqua
EV = OM4, XGLO 550 50/125 Multimode Erika Violet
SM = OS1/OS2, Singlemode Yellow

Jacket Rating
P = Plenum
R = Riser
L = LSOH

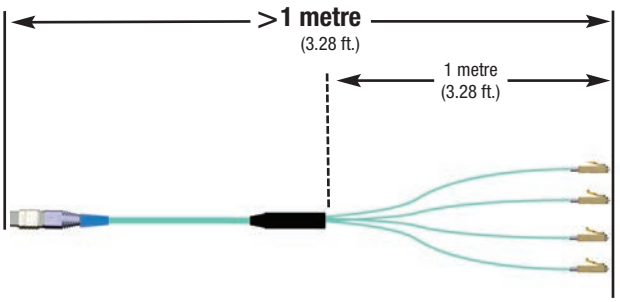
MTP Gender
MM = Male
MF = Female

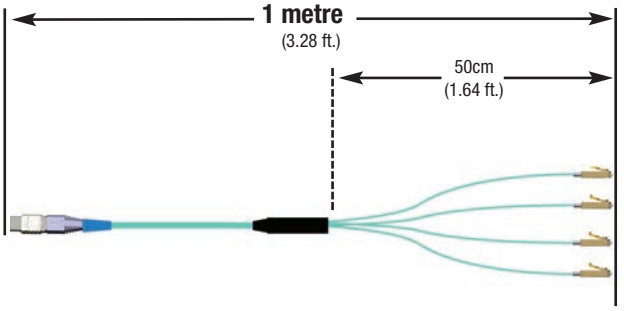
Polarity
LC = Reverse Fibre Position (RFP)
CL = Continuous Fibre Position (CFP)

Length
Length must be 3 digits
Example: 003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metre

** Minimun order length is 1 metre. Order length is measured connector tip to connector tip. Trunks greater than 1 metre (3.28 ft.) have breakout length of 1 metre. 1 metre trunks have a 50cm breakout length (See diagram below)*



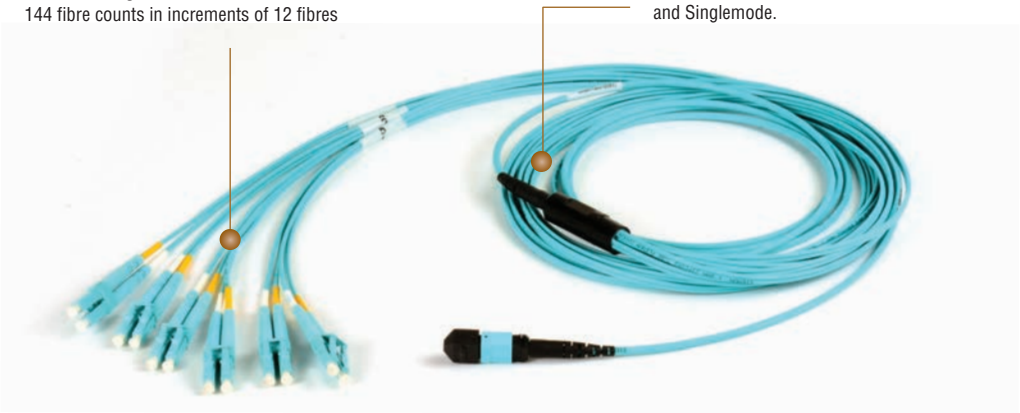


Base 12 MTP® to LC Trunks

Utilising high quality Siemon RazorCore™ cable, MTP to LC Trunks offer a connectivity transition from 12-fibre MTP connectors to duplex LC connectors. These may be implemented using Siemon's MTP to MTP Adapter Plates to provide direct MTP to LC patching options over a wide range of distances and infrastructure configurations.

Custom Configurations — Available from 12 to 144 fibre counts in increments of 12 fibres

Multiple Fibre Types — Available in Multimode (62.5/125 and laser optimised 50/125 OM3/OM4) and Singlemode.



Ordering Information:

T(X)(X)(X)(XX)(X)(XX)LC(XXX)(X)..... MTP to LC Trunk (distribution to breakout)

Configuration
- **L** = Low Loss (OM3/OM4 only)
- **F** = Standard Loss

Fibre Count
- **B** = 12
- **C** = 24
- **E** = 36
- **F** = 48
- **G** = 72
- **H** = 96
- **J** = 144

Pulling Eye
- **A** = Side A
- **B** = Side B
- **C** = None

Fibre Type
- **6** = OM1, 62.5/125 Multimode Beige
- **5L** = OM3, XGLO 300 50/125 Multimode Aqua
- **5V** = OM4, XGLO 550 50/125 Multimode Aqua
- **EV** = OM4, XGLO 550 50/125 Multimode Erika Violet
- **SM** = OS1/OS2, Singlemode Yellow

Jacket Rating
- **P** = Plenum
- **R** = Riser
- **L** = LSOH

MTP Connector Gender
- **MM** = Male
- **MF** = Female

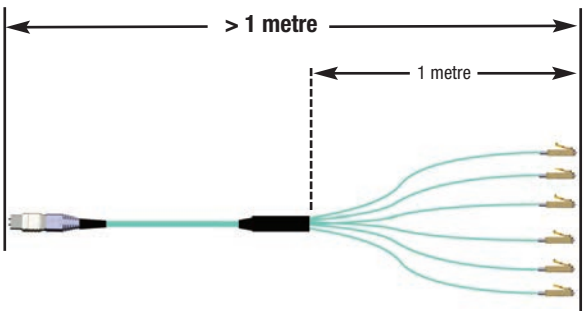
Length*

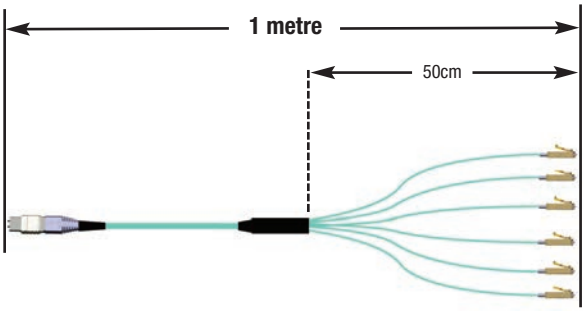
Length must be 3 digits
Example: 003 = 3m
010 = 10 ft.

Length Unit
- **F** = Feet
- **M** = Metres

See performance details on page 6.27.

** Minimun order length is 1 metre. Order length is measured connector tip to connector tip. Trunks greater than 1 metre (3.28 ft.) have breakout length of 1 metre. 1 metre trunks have a 50cm breakout length (See diagram below)*

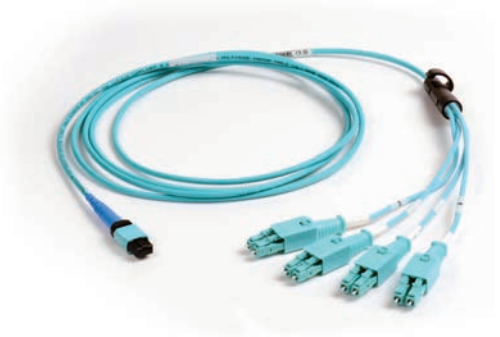




Base 8 MTP to LC BladePatch® 4 X 10G Equipment Cords

MTP® to LC BladePatch Trunks

Utilising high quality Siemon RazorCore™ cable, Base 8 MTP to LC BladePatch 4X10 equipment cords offer a connectivity transition from one 8-fibre MTP connector to four duplex LC BladePatch connectors that feature an innovative push-pull boot design to control the latch, enabling easy access and removal in tight-fitting areas.



Ordering Information:

T(X)2(X)(X)(X)(X)(X)(X)(XX)(XXX)(X) . . . . .Base 8 MTP to LC BladePatch Equipment Cords

Performance
F = Standard Loss (SM only)
L = Low Loss (OM3/OM4 only)

Fibre Count
N = 8 Strand

Pulling Eye Option
A = MTP Side (for lengths > 5m only)
C = None

Fibre Type
L = OM3, XGLO 300 50/125 Multimode Aqua
V = OM4, XGLO 550 50/125 Multimode Aqua
E = OM4, XGLO 550 50/125 Multimode Erika Violet
A = OS1/OS2, Singlemode Yellow

Jacket Rating
P = Plenum
R = Riser
L = LSOH

MTP Gender
M = Male
F = Female

Stagger Type
1 = No Stagger

LC BP Connector
LB = Reverse Fibre Postion (RFP)
BL = Continuous Fibre Postion (CFP)

Length
Length must be 3 digits
Example: 003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metre

MTP to LC 4 X 10G Equipment Cords

Siemon's MTP to LC 4 X 10G Hybrid Equipment Cords have (1) MTP connector on one end and (4) duplex LC connectors on the other for connection to active equipment with LC ports used in aggregation of multiple 10G ports to one 40G port.

Ordering Information:

T(X)NC(XX)(X)(XX)LC(XXX)(X) . . . . . .MTP to LC 4 X 10G Equipment Cords

Performance
F = Standard Loss
L = Low Loss (OM3/OM4 only)

Strand Count
N = 8 Fibres

Pulling Eye Option
C = None

Fibre Type
5L = OM3, XGLO 300 50/125 Multimode Aqua
5V = OM4, XGLO 550 50/125 Multimode Aqua
EV = OM4, XGLO 550 50/125 Multimode Erika Violet

Jacket Rating
P = Plenum
R = Riser
L = LSOH

Side A MTP (8 Core)
MM = Male
MF = Female

Length
Length must be 3 digits
Example:
003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metre

40/100G MTP Equipment Conversion Cords

Conversion Cord for 40G: (2) 12F MTP TO (3) 8F MTP Conversion Cord

Siemon's Conversion cord ensures 100 percent utilisation of 12 fibre MTP to MTP trunks at 40 and 100G transmission. The cords transition (2)12-fibre MTP connectivity from the backbone trunk to (3) 8-fibre MTP connector.

Ordering Information:

YWMF(XX)(XX)(X)(XXX)(X)(X)(X) . . . . . 40/100G Equipment Conversion Cords

Side A MTP (8 Core)
MF = Female

Side B MTP (12 Core)
MM = Male
MF = Female

Fibre Type
5L = OM3, XGLO 300 50/125 Multimode Aqua
5V = OM4, XGLO 550 50/125 Multimode Aqua
EV = OM4, XGLO 550 50/125 Multimode Erika Violet

Jacket Rating
P = Plenum
R = Riser
L = LSOH

Length
Length must be 3 digits
Example:
003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metre

Polarity Method
B = Method B
C = Method C

Performance
L = Low Loss
Blank = Standard Loss

(2) 12F MTP TO (1) 24F MTP Equipment Conversion Cord

Siemon's Conversion cords utilises (2) 12 fibre MTP to MTP trunks and transitions them from the backbone trunk to (1) 24-fibre MTP connector to connect to the active equipment.

Ordering Information:

YJMF(XX)(XX)(X)(XXX)(X)(X)(X) . . . . . 40/100G Equipment Conversion Cords

Side A MTP (24 Core)
MF = Female

Side B MTP (12 Core)
MM = Male
MF = Female

Fibre Type
5L = OM3, XGLO 300 50/125 Multimode Aqua
5V = OM4, XGLO 550 50/125 Multimode Aqua
EV = OM4, XGLO 550 50/125 Multimode Erika Violet

Jacket Rating
P = Plenum
R = Riser
L = LSOH

Length
Length must be 3 digits
Example:
003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metre

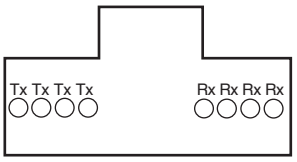
Polarity Method
B = Method B
C = Method C

Performance
L = Low Loss
Blank = Standard Loss

Base 8 40/100G Equipment Cords

Base 8 MTP 2mm Jumpers

Slemon's Base 8 MTP jumpers are used to connect the MTP trunk backbone to the active equipment. The 8-fibre design ensures 100% utilisation of fibre in 8-fibre 40/100G applications, while the compact design of the MTP footprint and Siemon's 2mm (0.079 in.) diameter RazorCore™ cable achieves greater connectivity access, reduction In cable pathway congestion and improved airflow.

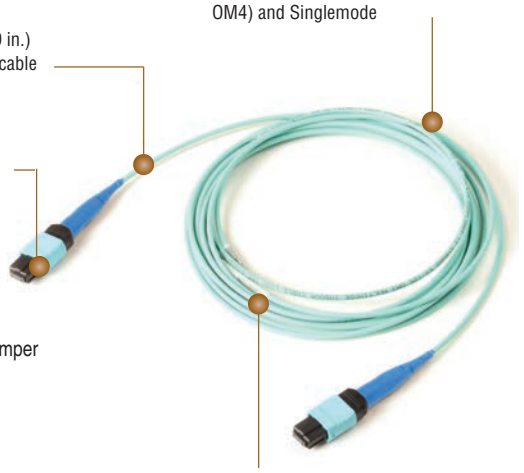


40GBASE-SR4 8-Fibre and 100GBASE-SR4 8-Fibre MTP
(1) 8 strand MTP trunk is used for one link

Small Diameter — 2mm (0.079 in.) RazorCore fibre cable improves cable management and pathway fill.

MTP Connector Gender — Options for both male or female

Multiple Fibre Types — Available in Multimode (laser optimised OM3 and OM4) and Singlemode



Easy Identification —Base 8 assemblies feature a blue boot to easily distinguish from Base 12 assemblies

Ordering Information:

GJ(X)-(X)(X)(X)(X)-(XXX)(X)-(X) . . . . Base 8 MTP 2mm (0.079 in.) jumper

Performance
S = Standard Loss
L = Low Loss (OM3/OM4 only)

Fibre Type
L = OM3, XGLO 300 50/125 Multimode Aqua
V = OM4, XGLO 550 50/125 Multimode Aqua
E = OM4, XGLO 550 50/125 Multimode Erika Violet
A = OS1/OS2, Singlemode Yellow

Jacket Rating
P = Plenum
R = Riser
L = LSOH

Side A
M = Male
F = Female

Side B
M = Male
F = Female

Length
Length must be 3 digits
Example:
003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metre

Polarity Method
A = Method A
B = Method B
C = Method C

Base 12 MTP 2mm Jumpers

Siemon's MTP jumpers are used to connect the MTP trunk backbone to the active equipment. The compact design of the MTP footprint and Siemon's 2mm (0.079 in.) diameter RazorCore™ cable achieves greater connectivity access, reduction in cable pathway congestion and improved airflow around the active equipment.

Ordering Information:

MJ(X)-(X)(X)(X)(X)-(XXX)(X)-(X) . . . . . Base 12 MTP 2mm (0.079 in.) jumper

Performance
S = Standard Loss
L = Low Loss (OM3/OM4 only)

Fibre Type
L = OM3, XGLO 300 50/125 Multimode Aqua
V = OM4, XGLO 550 50/125 Multimode Aqua
E = OM4, XGLO 550 50/125 Multimode Erika Violet
A = OS1/OS2, Singlemode Yellow

Jacket Rating
P = Plenum
R = Riser
L = LSOH

Side A
M = Male
F = Female

Side B
M = Male
F = Female

Length
Length must be 3 digits
Example:
003 = 3m
010 = 10 ft.

Length Unit
F = Feet
M = Metre

Polarity Method
A = Method A
B = Method B
C = Method C

Plug and Play Fibre System Optical Performance

Product Specifications

STANDARD LOSS ASSEMBLIES

Fibre Type		MAX Insertion (dB)		MAX Return Loss (dB)		Performance Class
		MTP	LC	MTP	LC	
5L-MM	50/125 (OM3)	0.50	0.25	20	30	XGLO® 300
5V-MM	50/125 (OM4)	0.50	0.25	20	30	XGLO 550
SM-LWP	SM (OS1/OS2)	0.60	0.40	65	55	XGLO

LOW LOSS ASSEMBLIES

Fibre Type		MAX Insertion (dB)		MAX Return Loss (dB)		Performance Class
		MTP	LC	MTP	LC	
5L-MM	50/125 (OM3)	0.20	0.15	20	30	XGLO 300
5V-MM	50/125 (OM4)	0.20	0.15	20	30	XGLO 550

CABLE - OPTICAL AND PHYSICAL SPECIFICATIONS

Cable Type	Multimode		Singlemode
	XGLO 50/125 OM3 (850/1300nm)	XGLO 50/125 OM4 (850/1300nm)	
Fibre Cable Attenuation, MAX (dB/km)	3.0 / 1.0	3.0 / 1.0	0.4/ 0.4/ 0.3*
LED Bandwidth, MIN (MHz/km)	1500 / 500	3500 / 500	N/A
Effective Modal Bandwidth, MIN (MHz/km)	2000	4700	N/A
Cable Outer Jacket, Colour (Per TIA-598-C)	Aqua	Aqua/ Erika Violet	Yellow

** XGLO singlemode fibre meets low water peak specifications per ITU-TG.652.C*

CONNECTORS - PHYSICAL SPECIFICATIONS

Connector Type	IEC Intermateability Compliance	TIA Intermateability Compliance	Housing Colour		Boot Colour	
			MM	SM	MM	SM
MTP	IEC 61754-7	TIA/EIA-604-5	Aqua/ Erika Violet	Green	Black (Base 8) Blue (Base12)	Black (Base 8) Blue (Base12)

Plug and Play Fibre System Optical Performance

STANDARD MODULES AND ASSEMBLIES

Fibre Type		MAX Insertion (dB)		MAX Return Loss (dB)		Performance Class
		MTP	LC	MTP	LC	
5L-MM	50/125 (OM3)	0.40	0.25	20	30	XGLO® 300
5V-MM	50/125 (OM4)	0.40	0.25	20	30	XGLO 550
SM-LWP	SM (OS1/OS2)	0.60	0.40	55	55	XGLO

LOW LOSS MODULES AND ASSEMBLIES

Fibre Type		MAX Insertion (dB)		MAX Return Loss (dB)		Performance Class
		MTP	LC	MTP	LC	
5L-MM	50/125 (OM3)	0.20	0.15	20	30	XGLO 300
5V-MM	50/125 (OM4)	0.20	0.15	20	30	XGLO 550

LC BladePatch®

Siemon's LC BladePatch duplex jumper offers a unique solution for high-density fibre optic patching environments. It features a revolutionary and innovative push-pull boot design to control the latch, enabling easy access and removal in tight-fitting areas. The LC BladePatch utilises a smaller diameter uni-tube cable design which reduces cable pathway congestion improving air flow and increasing energy efficiency while simplifying overall cable management. The LC BladePatch provides low-loss performance for Multimode and Singlemode supporting the precise optical performance requirements for high speed networks and improving network performance. The LC BladePatch is ideal for patching high density blade servers, patch panels and equipment.

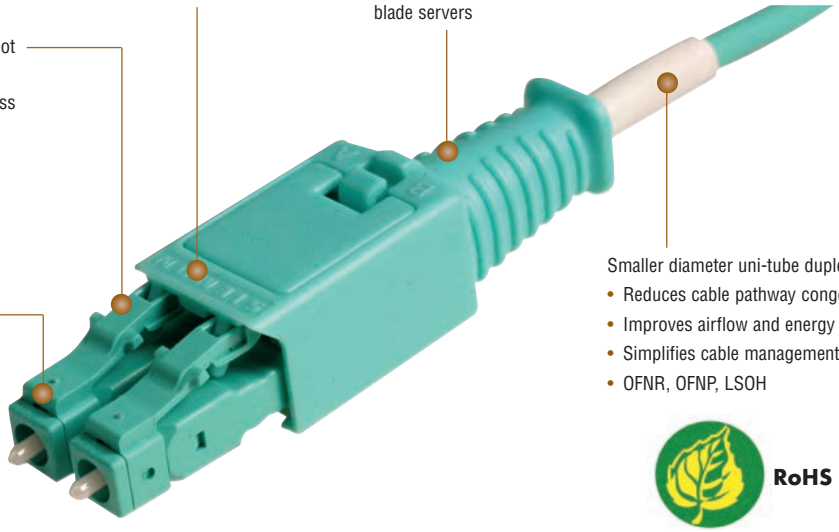
XGLO cable assemblies feature premium fibre that meets IEEE, specifications for OM3 and OM4 fibre. In addition, these assemblies offer a superior connector polish that meets stringent Telcordia and ISO/IEC specifications for end-face geometry and exceeds all ANSI/TIA and ISO/IEC insertion loss and return loss requirements. These precision cable assemblies are warranted for 20 years when installed in a qualified XGLO system. 100% inspection ensures superior performance and quality.

Low profile boot design optimises side-stackability

Designed specifically for high density data centre applications and high density blade servers

Innovative, patent-pending push-pull boot design to control the latch.

- Enhances installation and removal access in high density patching environments



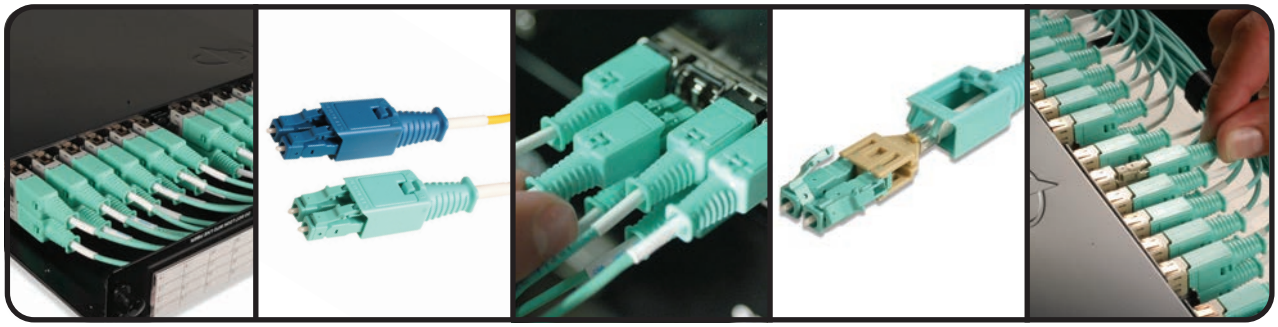
Patent-pending rotating latch design for easy polarity change

- Latch-only rotation to eliminate potential connector and cable damage
- Clear identification if a polarity change has been made

Smaller diameter uni-tube duplex cable design

- Reduces cable pathway congestion
- Improves airflow and energy efficiency
- Simplifies cable management
- OFNR, OFNP, LSOH

RoHS Compliant



Low profile boot design optimises side-stackability

OM3 and OM4 50/125 Multimode and OS1/OS2 Singlemode (UPC)

Fits within any standard LC adapter opening or LC SFP module (not compatible with internally shuttered LC adapters)

Rotating latch design eliminates potential fibre damage during polarity changes

The push-pull design enables easy access and removal via the boot in tight-fitting areas

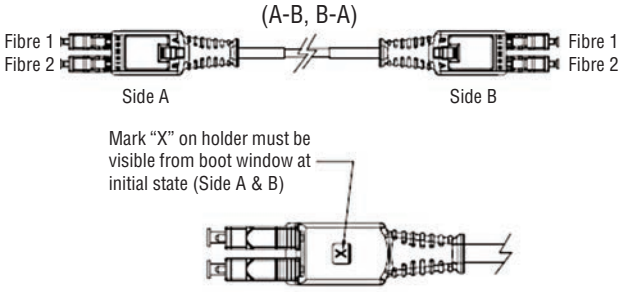
Product Information

PERFORMANCE SPECIFICATIONS

	OM3 50/125µm Multimode			OM4 50/125µm Multimode			OS1/OS2 Singlemode
Wavelength (nm)	850	1300	850*	850	1300	850*	1310/1550nm
Min. Cable Bandwidth (MHz•km)	1500 (OFL)	500 (OFL)	2000 (EMB)	3500 (OFL)	500 (OFL)	4700 (EMB)	N/A
Max. Insertion Loss (dB)	0.15 (0.10 Typical)			0.15 (0.10 Typical)			0.25 (0.10 Typical)
Min. Return Loss (dB)	30 (35 Typical)			30 (35 Typical)			55 (60 Typical)

**Laser Bandwidth*

Polarity Option - RFP (Reverse Fibre Position)



Ordering Information:

FBP-(X)(X)(X)(X)(X)-(XXX)(XX)(X) . . . . . XGLO LC BladePatch: reverse fibre position, Multimode OM3, OM4 50/125µm Singlemode - OS1/OS2

Side A - Connector
LC = LC

Side A - Mode/Performance
Blank = Multimode
U = UPC Singlemode

Side B - Connector
LC = LC

Side B - Mode/Performance
Blank = Multimode
U = UPC Singlemode

Fibre Type
5L = OM3 XGLO 300 50/125 Multimode
5V = OM4 XGLO 550 50/125 Multimode
L = OS1/OS2 Singlemode

Length
Example:
01 = 1 metre (3 ft)
100 = 100 metre (328 ft)

Jacket Rating/Colour
Blank = Riser (OFNR) Yellow cable, Blue connectivity
B = Bulk
Available in lengths 5 meters (16.4 ft.) or less.
Remove dashes "-" and add "B" to the end of the part number for bulk pack of 100 jumpers (10 per bag)

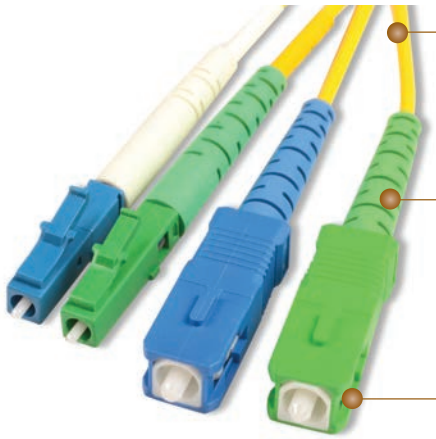
Jacket Rating/Colour
Blank = Riser (OFNR) Yellow cable, Blue connectivity
P = Plenum (OFNP) Yellow cable, Blue connectivity
H =LSOH (IEC 60332-3C) Yellow cable, Blue connectivity
AQ = Riser (OFNR) Aqua cable & connectivity (OM3,OM4)
AH = LSOH (IEC 60332-3C) Aqua cable & connectivity (OM3, OM4)
EQ = Riser (OFNR) Erika Violet cable & connectivity (OM4 only)
EP = PLenum (OFNP) Erika Violet cable & connectivity (OM4 only)
EH = LSOH (IEC 60332-3C) Erika Violet cable & connectivity (OM4 only)

Note: Polarity CFP (Continuous fibre position) is available as an option.
Remove the first dash "-" and add C to the end of the part number.
Example: FBPLCLC5L-(XX)AQC

XGLO® Singlemode LC & SC, APC and UPC Simplex Jumpers

XGLO Singlemode LC and SC Simplex angled polish (APC) and ultra polish (UPC) fibre optic cable assemblies are ideal for supporting high speed telecommunication network fibre applications such as FTXX, PON, POL, CATV, LAN, and WAN. The cable assemblies feature Singlemode bend insensitive fibre with a superior connector polish. The assemblies meet stringent TIA/EIA, Telcordia and ISO/IEC specifications for endface geometry, mechanical, insertion loss and return loss requirements.

These precision cable assemblies are warranted for 20 years when installed in a qualified XGLO system. 100% inspection ensures superior performance and quality.



XGLO fibre optic cable assemblies meet all Telcordia and ISO/IEC specifications for ferrule end face geometry – including radius of curvature, apex offset, and spherical undercut. Compliance ensures minimum Return Loss, thereby reducing back reflection of laser energy which could degrade transmission performance or damage transceivers

The Singlemode bend insensitive fibre provides supreme bending performance compared to traditional singlemode fibre. The Singlemode fibre conforms to ITU-T G.657 A2, ITU-T G.657 B2 (edition 2009) and ITU-T G.652.D industry specifications

APC assemblies feature green connectors with a yellow jacket

UPC assemblies feature blue connectors with a yellow jacket

STANDARDS COMPLIANCE

- TIA/EIA-568.3-D
- IEC 60874
- ISO/IEC 11801
- ITU-T G.652 D
- ITU-T G.657 A2 , ITU-T G.657 B2 (2009)
- TELCORDIA GR-326-CORE issue 4

*Tested in accordance with the Service Life requirements of Telcordia GR-326-CORE issue 4.

PERFORMANCE SPECIFICATIONS

Singlemode (OS1/OS2)	APC	UPC
Wavelength (nm)	1310 / 1550	
Max. Insertion Loss (dB)	0.40 (0.15 Typical)	0.40 (0.10 Typical)
Min. Return Loss (dB)	65 (70 Typical)	55 (60 Typical)

Ordering Information:

LSOH (IEC 60332-3C)

XGLO Singlemode OS1/OS2

FJ1-LCALCAL-(XX)H.....LC APC to LC APC yellow simplex jumper
FJ1-SCASCAL-(XX)H..... SC APC to SC APC yellow simplex jumper
FJ1-LCASCAL-(XX)H.....LC APC to SC APC yellow simplex jumper
FJ1-LCULCUL-(XX)H.....LC UPC to LC UPC yellow simplex jumper
FJ1-SCUSCUL-(XX)H.....SC UPC to SC UPC yellow simplex jumper
FJ1-LCUSCUL-(XX)H..... LC UPC to SC UPC yellow simplex jumper
FJ1-LCALCUL-(XX)H.....LC APC to LC UPC yellow simplex jumper
FJ1-LCASCUL-(XX)H..... LC APC to SC UPC yellow simplex jumper
FJ1-LCUSCAL-(XX)H..... LC UPC to SC APC yellow simplex jumper
FJ1-SCUSCAL-(XX)H.....SC UPC to SC APC yellow simplex jumper

RISER (OFNR)

XGLO Singlemode OS1/OS2

FJ1-LCALCAL-(XX).....LC APC to LC APC yellow simplex jumper
FJ1-SCASCAL-(XX).....SC APC to SC APC yellow simplex jumper
FJ1-LCASCAL-(XX)..... LC APC to SC APC yellow simplex jumper
FJ1-LCULCUL-(XX)..... LC UPC to LC UPC yellow simplex jumper
FJ1-SCUSCUL-(XX)..... SC UPC to SC UPC yellow simplex jumper
FJ1-LCUSCUL-(XX).....LC UPC to SC UPC yellow simplex jumper
FJ1-LCALCUL-(XX)..... LC APC to LC UPC yellow simplex jumper
FJ1-LCASCUL-(XX).....LC APC to SC UPC yellow simplex jumper
FJ1-LCUSCAL-(XX).....LC UPC to SC APC yellow simplex jumper
FJ1-SCUSCAL-(XX).....SC UPC to SC APC yellow simplex jumper

PLENUM (OFNP)

XGLO Singlemode OS1/OS2

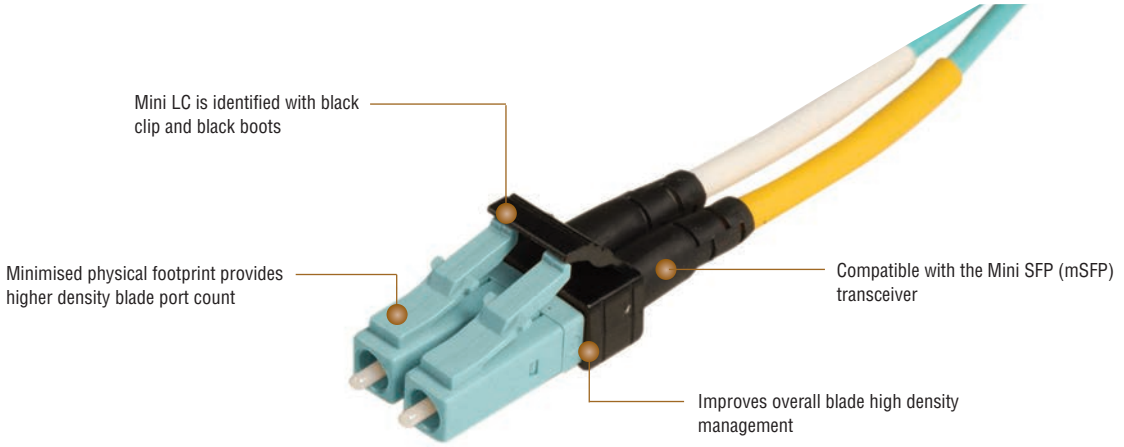
FJ1-LCALCAL-(XX)P..... LC APC to LC APC yellow simplex jumper
FJ1-SCASCAL-(XX)P..... SC APC to SC APC yellow simplex jumper
FJ1-LCASCAL-(XX)P.....LC APC to SC APC yellow simplex jumper
FJ1-LCULCUL-(XX)P.....LC UPC to LC UPC yellow simplex jumper
FJ1-SCUSCUL-(XX)P..... SC UPC to SC UPC yellow simplex jumper
FJ1-LCUSCUL-(XX)P..... LC UPC to SC UPC yellow simplex jumper
FJ1-LCALCUL-(XX)P.....LC APC to LC UPC yellow simplex jumper
FJ1-LCASCUL-(XX)P.....LC APC to SC UPC yellow simplex jumper
FJ1-LCUSCAL-(XX)P.....LC UPC to SC APC yellow simplex jumper
FJ1-SCUSCAL-(XX)P..... SC UPC to SC APC yellow simplex jumper

Use (XX) to specify length: 01 = 1m (3.28 ft.), 02 = 2m (6.56 ft.), 03 = 3m (9.8 ft), 05 = 5m (16.4 ft.)

Custom lengths and jacket colours are available upon request.
Contact our Customer Service Department for more information.

XGLO® Mini-LC Duplex Fibre Cable Assemblies

Mini-LC duplex Multimode cable assemblies are designed to operate with the Mini SFP (mSFP) transceiver and enable a higher density deployment of active devices. The Mini-LC has a reduced centreline pitch of 5.25mm (0.2 in.) compared to a standard LC pitch of 6.25mm (0.24 in.). The smaller pitch minimises the physical footprint and provides higher-density port count for data centre network equipment. Black colour duplex latch clips and boots are used to distinguish the Mini-LC Duplex connectors from the standard LC Duplex.



PERFORMANCE SPECIFICATIONS

	50/125 µm Multimode (OM3)			50/125 µm Multimode (OM4)		
Wavelength (nm)	850	1300	850*	850	1300	850*
Min. Cable Bandwidth (MHz•km)	1500 (OFL)	500 (OFL)	2000 (EMB)	3500 (OFL)	500 (OFL)	4700 (EMB)
Max. Insertion Loss (dB)	0.25 (0.10 Typical)			0.25 (0.10 Typical)		
Min. Return Loss (dB)	30 (35 Typical)			30 (35 Typical)		

**Laser Bandwidth*

Ordering Information:

XGLO 300 50/125µm Multimode OM3 OFNR

Part # **Description**

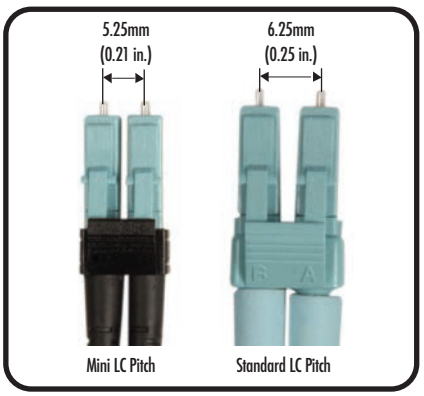
FJ2-LCMLC5L-(XX)A .....Mini LC to standard LC aqua duplex jumper
FJ2-LCMLCM5L(XX)A .....Mini LC to mini LC aqua duplex jumper

XGLO 550 50/125µm Multimode OM4 OFNR

Part # **Description**

FJ2-LCMLC5V-(XX)A .....Mini LC to standard LC aqua duplex jumper
FJ2-LCMLCM5V(XX)A .....Mini LC to mini LC aqua duplex jumper

Use (XX) to specify length: 01 = 1m (3.28 ft.), 02 = 2m (6.56 ft.), 03 = 3m (9.8 ft.), 05 = 5m (16.4 ft.)

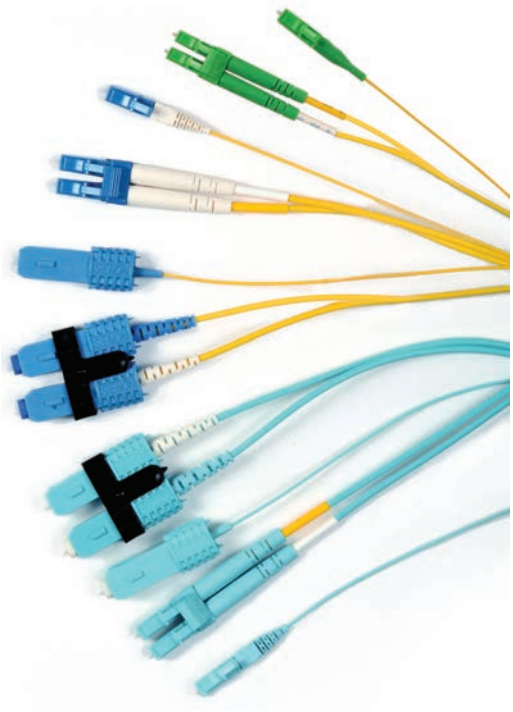


Reduced centreline pitch minimises the physical footprint

Mini LC to Standard LC jumpers are available to connect Mini LC equipment to a standard channel

XGLO® and LightSystem® Jumpers & Pigtails

XGLO fibre optic cable assemblies are ideal for supporting duplex and simplex fibre applications over extended distances and next-generation backbones. XGLO cable assemblies feature premium fibre that meets IEC-60793-2-10, TIA-492AAAC (OM3) and TIA-492AAAD (OM4) specifications. In addition, these assemblies offer a superior connector polish that meets stringent Telcordia and ISO/IEC specifications for end-face geometry and exceeds all ANSI/TIA and ISO/IEC insertion loss and return loss requirements. The XGLO singlemode jumpers and pigtails are also available in angled polish (APC) for FTXX, PON, POL, CATV LAN and WAN. These precision cable assemblies are warranted for 20 years when installed in a qualified Siemon XGLO or LightSystem. 100% inspection ensures superior performance and quality.



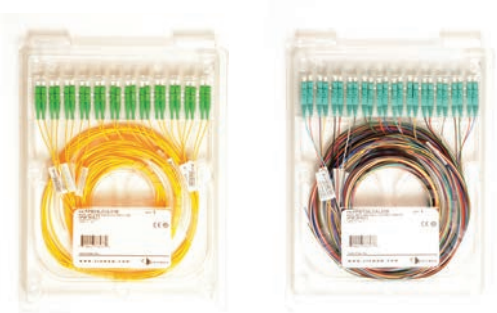
Fibre Type — OM1, OM3, OM4, 0S1/OS2

Polarity Correction — SC and LC duplex clip allows for polarity correction

Exceeds Requirements — Exceeds TIA/EIA and ISO/IEC requirements for aging, exposure to humidity, temperature extremes, impact, vibration, coupling strength, and cable resistance to stress and strain

APC Connectivity — Complies with Telcordia GR-326-CORE issue 4

*Tested in accordance with the Service Life requirements of Telcordia GR-326-CORE issue 4.
* LC 900µm simplex pigtails are TIA/EIA and ISO/IEC compliant.



Bulk Pack Pigtails — Convenient protective plastic bulk packaging reduces waste
– 12 pack SC
– 12/24 pack LC
– TIA colour code pack 1 -12 colours

PERFORMANCE SPECIFICATIONS

	OM1 - 62.5/125µm Multimode		OM3 50/125µm Multimode			OM4 50/125µm Multimode			OS1/OS2 Singlemode (UPC)	OS1/OS2 Singlemode (APC)
Wavelength (nm)	850	1300	850	1300	850*	850	1300	850*	1310/1550nm	1310/1550nm
Min. Cable Bandwidth (MHz•km)	200	500	1500 (OFL)	500 (OFL)	2000 (EMB)	3500 (OFL)	500 (OFL)	4700 (EMB)	N/A	N/A
Max. Insertion Loss (dB)	0.50 (0.15 Typical)		0.25 (0.10 Typical)			0.25 (0.10 Typical)			0.40 (0.10 Typical)	0.40 (0.15 Typical)
Min. Return Loss (dB)	25 (30 Typical)		30 (35 Typical)			30 (35 Typical)			55 (60 Typical)	65 (70 Typical)

** Laser bandwidth*

XGLO® Multimode OM3 and OM4 Duplex Jumpers

Ordering Information:

FJ2-(X)(X)(X)-(XXX)(XX)(X) . . . . . XGLO Multimode duplex jumpers

Side A - Connector
LC = LC
SC = SC
ST = ST

Side B - Connector
LC = LC
SC = SC
ST = ST

Fibre Type
5L = OM3 XGLO 300 50/125 Multimode
5V = OM4 XGLO 550 50/125 Multimode

Length
Example:
01 = 1 metre (3 ft)
100 = 100 metre (328 ft)

Bulk Package
Blank = Non Bulk
B = Bulk
SC and LC interface only
Available in lengths 5 metres (16.4 ft.) or less
Remove dashes "-" and add "B" to the end of the part number for bulk pack of 100 jumpers (10 per bag)

Jacket Rating/Colour
AQ = Riser (OFNR) Aqua cable & Beige connectivity
AH = LSOH (IEC 60332-3C) Aqua cable & Beige connectivity
QQ = Riser (OFNR) Aqua cable & connectivity
QH = LSOH (IEC 60332-3C) Aqua cable & connectivity
EQ = Riser (OFNR) Erika Violet cable & connectivity (OM4 only)
EH = LSOH (IEC 60332-3C) Erika Violet cable & connectivity (OM4 only)

XGLO® Multimode OM3 and OM4 900µm Buffered Simplex Pigtails

Ordering Information:

FP1B-(XX)(XX)-(XX)(XX) . . . . . XGLO Multimode simplex 900µm buffered simplex pigtails

Connector
LC = LC
SC = SC
ST = ST

Fibre Type
5L = OM3 XGLO 300 50/125 Multimode
5V = OM4 XGLO 550 50/125 Multimode

Length
Example:
01 = 1 metre (3 ft)
05 = 5metre (16 ft)

Jacket Rating/Colour
AQ = Riser (OFNR) Aqua cable & Beige connectivity
AH = LSOH (IEC 60332-3C) Aqua cable & Beige connectivity
QQ = Riser (OFNR) Aqua cable & connectivity
QH = LSOH (IEC 60332-3C) Aqua cable & connectivity
EQ = Riser (OFNR) Erika Violet cable & connectivity (OM4 only)
EH = LSOH (IEC 60332-3C) Erika Violet cable & connectivity (OM4 only)

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

XGLO® Singlemode OS1/OS2 Duplex Jumpers

Ordering Information:

FJ2-(XX)(X)(XX)(X)(X)-(XXX)(XX)(X) . . . . . Singlemode OS1/OS2 Duplex jumpers

Side A - Connector
LC = LC
SC = SC
ST = ST

Side A - Mode/Performance
U = UPC
A = APC (LC & SC only)

Side B - Connector
LC = LC
SC = SC
ST = ST

Side B - Performance
U = UPC
A = APC (LC & SC only)

Fibre Type
L = OS1/OS2 Singlemode

Length
Example:
01 = 1 metre (3 ft)
100 = 100 metre (328 ft)

Jacket Rating/Colour
Blank = Riser (OFNR) Yellow cable, UPC Blue connectivity, APC green connectivity
H = LSOH (IEC 60332-3C) Yellow cable, UPC Blue connectivity, APC green connectivity

Bulk Package
Blank = Non Bulk
B = Bulk
SC UPC and LC UPC interface only
Available in lengths 5 metres (16.4 ft.) or less
Remove dashes "-" and add "B" to the end of the part number for bulk pack of 100 jumpers (10 per bag)

XGLO® Singlemode OS1/OS2 900µm Buffered Simplex Pigtails

Ordering Information:

FP1B-(XX)(XX)-(XX)(XX) . . . . . Singlemode OS1/OS2 900µm buffered simplex pigtails

Connector
LC = LC
SC = SC
ST = ST

Performance
UL = UPC
AL = APC (LC & SC only)

Length
Example:
01 = 1 metre (3 ft.)
05 = 5 metre (16 ft.)

Jacket Rating/Colour
Blank = Riser (OFNR) Yellow cable, UPC, Blue connectivity, APC Green connectivity
H = LSOH (IEC 60332-3C) Yellow cable, UPC Blue connectivity, APC Green connectivity

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

LightSystem 62.5/125 µm Multimode OM1 Duplex Jumpers

Ordering Information:

FJ2-(XX)(XX)-(X)-(XXX)(XX) . . . . . LightSystem Multimode OM1 duplex jumpers

Side "A" Connector
LC = LC
SC = SC
ST = ST

Side "B" Connector
LC = LC
SC = SC
ST = ST

Fibre Type
6MM = OM1 62.5/125 Multimode

Length
Example:
01 = 1 metre (3 ft)
05 = 5 metre (16 ft)

Jacket Rating/Colour
Blank = Riser (OFNR) Orange cable, Beige connectivity
H = LSOH (IEC 60332-3C) Orange cable, Beige connectivity

LightSystem 62.5/125 µm Multimode OM1 900µm Buffered Simplex Pigtails

Ordering Information:

FP1B-(XX)(XXX)-(XX)(XX) . . . . . XGLO Multimode OM1 900µm buffered simplex pigtails

Connector
LC = LC
SC = SC
ST = ST

Fibre Type
6MM = OM1 62.5/125 Multimode

Length
Example:
01 = 1 metre (3 ft.)
05 = 5 metre (16 ft.)

Jacket Rating/Colour
Blank = Riser (OFNR) Orange cable, Beige connectivity
H = LSOH (IEC 60332-3C) Orange cable, Beige connectivity

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

Bulk Fibre 900µm Buffered Pigtails, Singlemode OS1/OS2 and Multimode OM3/OM4

Ordering Information:

FP1B(XXX)(XX)(XX)(XX)(XX)B . . . . . XGLO fibre 900µm Buffered pigtails

Pack Quantity

12 = 12 Pigtails
24 = 24 Pigtails
T12 = 12 Pigtails TIA colour code
T24 = 24 Pigtails TIA colour code (LC only)

Jacket Rating/Connectivity Colour

Blank = Riser (OFNR) UPC Blue, APC Green, OS1/OS2
H = LSOH (IEC 60332-3C) UPC Blue, APC Green, OS1/OS2
AQ = Riser (OFNR) Beige connectivity, OM3/OM4
AH = LSOH (IEC 60332-3C) Beige connectivity, OM3/OM4
QQ = Riser (OFNR) Aqua connectivity, OM3/OM4
QH = LSOH (IEC 60332-3C) Aqua connectivity, OM3/OM4
EQ = Riser (OFNR) Erika Violet connectivity (OM4 only)
EH = LSOH (IEC 60332-3C) Erika Violet connectivity (OM4 only)

Connector

LC = LC
SC = SC

Length

Available in lengths 5 meters (16.4 ft.) or less
Example:
01 = 1 metre (3.3 ft)
05 = 5 metre (16.4 ft)

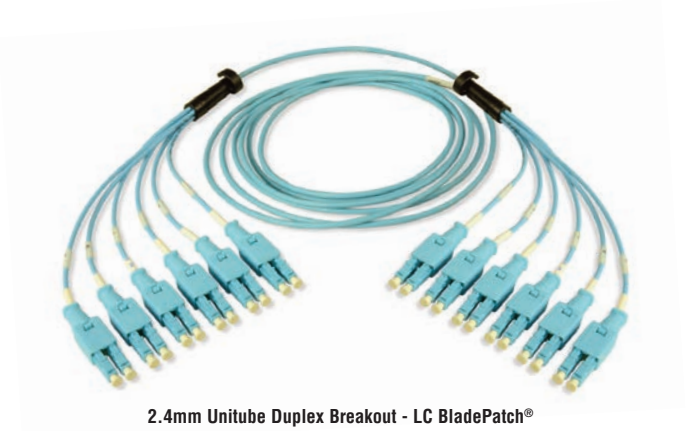
Mode/Performance

5L = OM3 XGLO 300 50/125 Multimode
5V = OM4 XGLO 550 50/125 Multimode
UL = UPC OS1/OS2 Singlemode
AL = APC OS1/OS2 Singlemode

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

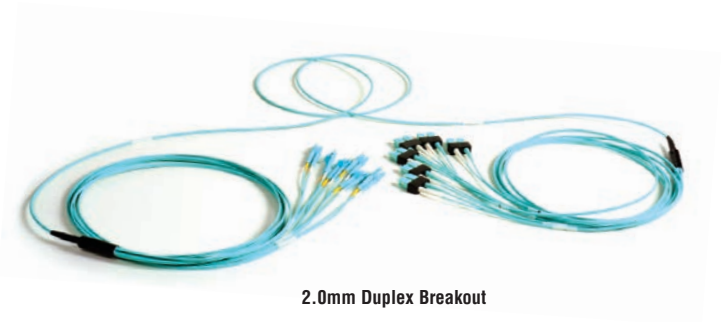
XGLO® and LightSystem® LC & SC Fibre Trunks

Siemon's RazorCore™ fibre trunks provide an efficient and cost effective alternative to individual field-terminated components. Combining factory terminated connectors with Siemon RazorCore reduced O.D. cable in a high-performance cable assembly, Siemon RazorCore fibre trunks were designed with Local Area Networks (LAN), Data Centres and Storage Area Networks (SAN) applications in mind. These assemblies allow up to 75% faster field installation times. Standard configurations also help maintain consistent cable layout and facilitate efficient moves, adds and changes. These precision cable assemblies are 100% inspected ensuring superior performance and quality. The RazorCore fibre trunks are available in Single-mode or Multimode performance with LC BladePatch, SC, LC or ST connectivity.



2.4mm Unitube Duplex Breakout - LC BladePatch®

900µm Simplex Breakout



2.0mm Duplex Breakout

LC BladePatch® —
Enhances installation and removal access in high density enviroments.
Low profile push-pull boot design optimises side-stackability and accessibility
Fits with any standard LC adpater opening or LC SFP module
(not compatible with internal shuttered LC adapters)

Reduced Pathway Fill —
Siemon's RazorCore cable has significantly reduced cable O.D. resulting in less cable tray fill and pathway restrictions

Proper Orientation —
Each leg is designated for proper connector orientation

Multiple Fibre Types —
Available in OM1, OM3, and OM4 Multimode 50/125 laser optimised and OS1/OS2 Singlemode. Jacket ratings in riser, plenum and LSOH

Custom Configurations —
Available from 6 to 144 fibre counts in various lengths

Factory Terminated and Tested —
Every fibre cable assembly is factory terminated and tested for premium performance

XGLO® and LightSystem® Fibre Trunks

Ordering Information:

TFU(X)(X)(X)(X)(X)(X)(X)(X)(XXX)(X)

Fibre Count
- **A** = 6
- **B** = 8
- **C** = 12
- **D** = 16
- **E** = 24
- **F** = 36
- **G** = 48
- **H** = 72
- **J** = 96
- **K** = 144

Pulling Eye
- **A** = Side A
- **B** = Side B
- **C** = Side A&B
- **D** = None

Fibre Type
- **A** = OS1/OS2, 62.5/125 Singlemode Yellow
- **B** = OM1, 62.5 Multimode Orange
- **L** = OM3, XGLO 300 50/125 Multimode Aqua
- **V** = OM4, XGLO 550 50/125 Multimode Aqua
- **E** = OM4, XGLO 550 50/125 Multimode Erika Violet

Cable Type
- **P** = Plenum - Indoor Distribution (OFNP)
- **R** = Riser - Indoor Distribution (OFNR)
- **L** = LSOH - Indoor Distribution (IEC 60332-3C)

LEG OD (Side A)
- **A** = Simplex 900µm
- **B** = Duplex 2.0mm
- **C** = Uni-Tube Duplex 2.4mm LC BladePatch only

LEG OD (Side B)
- **A** = Simplex 900µm
- **B** = Duplex 2.0mm
- **C** = Uni-Tube Duplex 2.4 LC BladePatch only

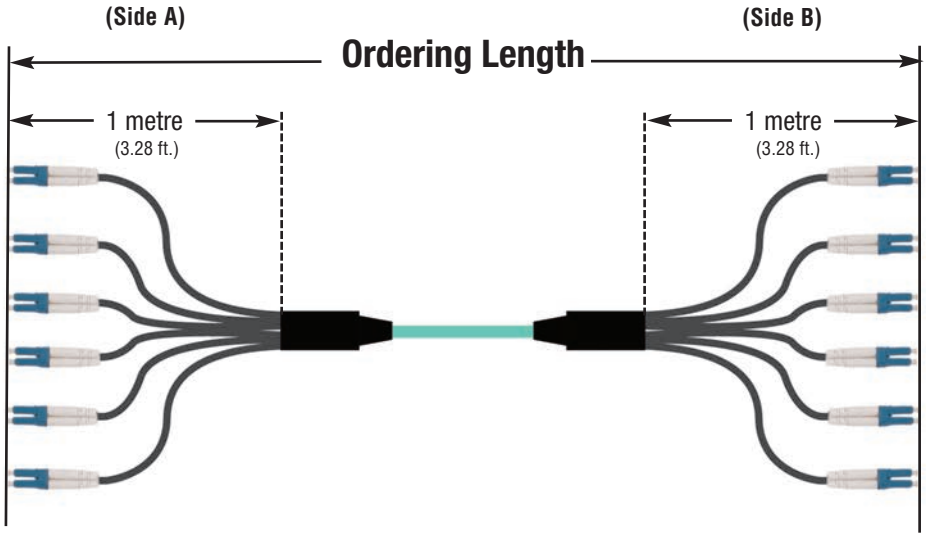
Connector Type (Side A)
- **A** = LC Multimode
- **B** = LC UPC Singlemode
- **C** = LC APC Singlemode
- **D** = LC BladePatch Multimode RFP Polarity only
- **E** = LC BladePatch UPC Singlemode RFP Polarity only
- **F** = SC Multimode
- **G** = SC UPC Singlemode
- **H** = SC APC Singlemode
- **J** = ST Multimode
- **K** = ST UPC Singlemode

Connector Type (Side B)
- **A** = LC Multimode
- **B** = LC UPC Singlemode
- **C** = LC APC Singlemode
- **D** = LC BladePatch Multimode RFP Polarity only
- **E** = LC BladePatch UPC Singlemode RFP Polarity only
- **F** = SC Multimode
- **G** = SC UPC Singlemode
- **H** = SC APC Singlemode
- **J** = ST Multimode
- **K** = ST UPC Singlemode

Cable Length
Length must be 3 digits
Example: **004** = 4m
012 = 12 ft.

Unit of Measure
- **F** = Feet
- **M** = Metres

Ordering length is measured connector tip to connector tip.
2. 4 unitube duplex, 2.0mm duplex and simplex 900 micron buffered
Minimum order length is 3 metres (9.8 ft).



Note: These products are made to order. Call for lead time and availability.

XGLO® and LightSystem® LC & SC Fibre Trunks

CONNECTORS — Optical Specifications

Fibre Type	Performance Class	Max Insertion Loss (dB)	Min Return Loss (dB)
62.5/125 µm Multimode, OM1	LightSystem	0.50	25
50/125 µm Laser Optimised Multimode, OM3,OM4	XGLO	0.25	30
Singlemode UPC, OS1/OS2	XGLO	0.40	55
Singlemode APC, OS1/OS2	XGLO	0.40	65

CABLE — Optical and Physical Specifications

Jacket Type	Fibre Strand Count	Cable Diameter mm (in.)	Min Bend Radius Operational mm (in.)	Min Bend Radius Installation mm (in.)	Max Pulling Eye Diameter mm (in.)	*Required Duct Diameter mm (in.)
Riser	6	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
Riser	8	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
Riser	12	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
Riser	16	3.8 (0.15)	38 (1.5)	57 (2.2)	44.5 (1.75)	69.9 (2.75)
Riser	24	3.8 (0.15)	38 (1.5)	57 (2.2)	44.5 (1.75)	69.9 (2.75)
Riser	36	9.4 (0.37)	94 (3.7)	141 (5.6)	63.5 (2.5)	88.9 (3.5)
Riser	48	9.4 (0.37)	94 (3.7)	141 (5.6)	63.5 (2.5)	88.9 (3.5)
Riser	72	9.4 (0.37)	94 (3.7)	141 (5.6)	63.5 (2.5)	88.9 (3.5)
Riser	96	13.2 (0.52)	132 (5.2)	198 (7.8)	88.9 (3.25)	114.3 (4.5)
Riser	144	13.2 (0.52)	132 (5.2)	198 (7.8)	88.9 (3.25)	114.3 (4.5)
Plenum	6	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
Plenum	8	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
Plenum	12	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
Plenum	16	3.8 (0.15)	38 (1.5)	57 (2.2)	44.5 (1.75)	69.9 (2.75)
Plenum	24	3.8 (0.15)	38 (1.5)	57 (2.2)	44.5 (1.75)	69.9 (2.75)
Plenum	36	7.5 (0.30)	75 (3.0)	113 (4.4)	63.5 (2.5)	88.9 (3.5)
Plenum	48	7.5 (0.30)	75 (3.0)	113 (4.4)	63.5 (2.5)	88.9 (3.5)
Plenum	72	8.5 (0.33)	85 (3.3)	128 (5.0)	63.5 (2.5)	88.9 (3.5)
Plenum	96	13.6 (0.54)	136 (5.4)	204 (8.0)	88.9 (3.25)	114.3 (4.5)
Plenum	144	13.6 (0.54)	136 (5.4)	204 (8.0)	88.9 (3.25)	114.3 (4.5)
LSOH	6	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
LSOH	8	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
LSOH	12	3.0 (0.12)	30 (1.2)	45 (1.8)	44.5 (1.75)	69.9 (2.75)
LSOH	16	3.8 (0.15)	38 (1.5)	57 (2.2)	44.5 (1.75)	69.9 (2.75)
LSOH	24	3.8 (0.15)	38 (1.5)	57 (2.2)	44.5 (1.75)	69.9 (2.75)
LSOH	36	6.5 (0.26)	65 (2.6)	98 (3.3)	63.5 (2.5)	88.9 (3.5)
LSOH	48	6.5 (0.26)	65 (2.6)	98 (3.3)	63.5 (2.5)	88.9 (3.5)
LSOH	72	7.0 (0.28)	70 (2.8)	105 (4.1)	63.5 (2.5)	88.9 (3.5)
LSOH	96	12.5 (0.49)	125 (4.9)	188 (7.4)	88.9 (3.25)	114.3 (4.5)
LSOH	144	14.9 (0.59)	149 (5.9)	224 (8.8)	88.9 (3.25)	114.3 (4.5)

*Pulling eye assembly shall be capable of passing through these minimum duct diameter requirements during product installation.
Pulling eye max pull force 18.1kg (40lbs)

Visual Fault Locator (VFL)

The Siemon Visual Fault Locator (VFL) is an essential tool for testing cable continuity and locating visual faults. By emitting a laser beam of red light, the VFL quickly illuminates fibre breaks, damaged connectors, defective splices and tight fibre bends. Continuous or flashing mode identifies a fault or indicates the other end of the fibre for verifying continuity. The VFL features an integrated 2.5mm (0.1 in.) adapter for easy connection to SC, ST and FC connectors and an optional 1.25mm (0.05 in.) universal adapter for connection to LC and MU connectors.

FEATURES

- Laser Class 1 (IEC 60825 2011), 0.5mW output power, 650nm range wavelength
- Pulsed and CW (continuous steady) operation modes
- Compatible with 2.5mm (0.1 in.) and 1.25mm (0.05 in.) connector ferrules
- Contact Style VFL
- 2 AAA Batteries
- 40 hours of operation

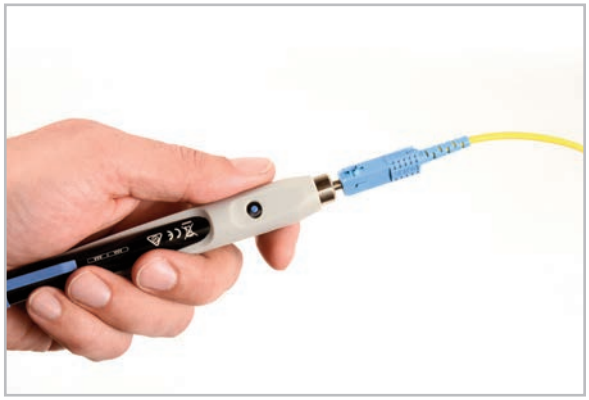
OPTICAL COMMUNICATION TEST APPLICATIONS

- Fibre identification
- Fibre continuity testing
- Connection polarity testing
- Precise optical fault location
- Cable route location

CE

CLASS 1
Laser product

1.25mm Universal Connector Adapter — VFL with the optional 1.25mm (0.05 in.) universal connector adapter allows use with LC and MU connectors



Handheld Pen Design — Small and ergonomically designed for fast and easy testing of connectors

Ordering Information

Parametres	Value
Wavelength	650 ±5nm
Power output	0.5mW
Operation mode	CW (Continuous steady) & Pulsed (2-3 Hz)
Distance	< 5km (16404 ft)
Connector	2.5mm (1.25mm adapter is available)
Retention force for ferrule	1-2 N (0.22 - 0.45 lbf)
Type	Contact VFL
Laser protection class	Class 1 IEC 60825-2011
Laser products-Performance standards for light-emitting products	CFR 21 Part 1040.10 (USA)
Operating temperature	-10 to +45 °C (14 to +113°F)
Storage temperature	-40 to +70 °C (-40 to +158°F)
Relative humidity	95%
Alignment sleeves	Ceramic
Power	2 AAA alkaline batteries (included)
Battery life, pulsed	≥ 40 hours
Weight	83g including batteries
Size	18mm x 160mm (0.71 x 6.29 in.)

Part #	Description
FT-VFL-P-A	VFL Pen, 2.5mm (0.1 in.) universal connector adapter for SC, ST and FC

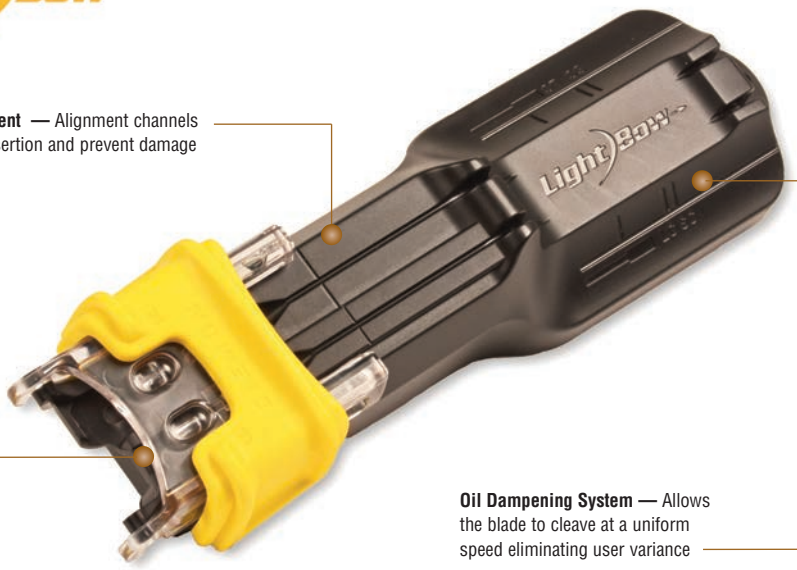
FT-VFL-P-A

Part #	Description
FT-VFL-ADPT-A	2.5mm (0.1 in.) to 1.25mm (0.05 in.) universal connector adapter for LC and MU

FT-VFL-ADPT-A

LightBow™ Fibre Termination Kit

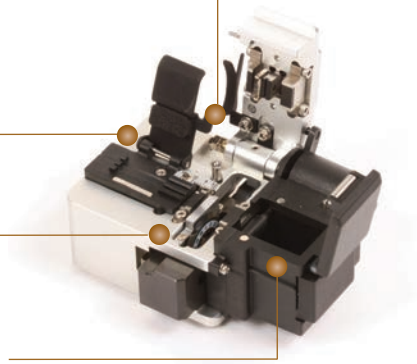
Siemon's LightBow mechanical splice termination kit includes a patent-pending, easy-to-use termination tool that dramatically reduces termination time while ensuring reliability. With universal LC/SC compatibility, the LightBow tool simplifies fibre insertion and avoids end face damage when terminating LightBow pre-polished mechanical splice connectors.



Integrated Strip Template — LC and SC strip template on tool ensures proper strip lengths

Optimal Alignment — Alignment channels simplify fibre insertion and prevent damage to fibre end face

Fast, Robust Process — Combines both splice activation and mechanical crimping to significantly reduce termination time

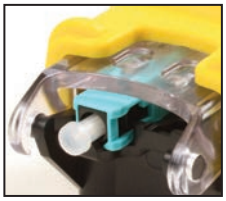


Precision Cleaver — Provides consistent, precise and high quality cleaves

Oil Dampening System — Allows the blade to cleave at a uniform speed eliminating user variance

Long Lasting Blade — Allows for 48,000 cleaves

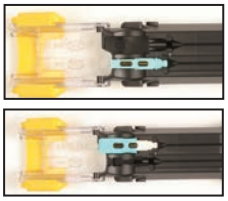
Safety — Integrated collection bin eliminates handling of cleaved fibre



Reduced Risk of Contamination — All termination steps completed with dust cap in place

Maximum Reliability — Bow feature maintains proper pressure of fibre ends to eliminate air gaps during termination

Ergonomic — Tool can be used in handheld or table-top position with non-slip rubber feet



Universal LC/SC Compatibility — Tool terminates both LC and SC connectors with no time-consuming changeover

Ordering Information:

Part #	Description
FT-LB-KIT	LightBow™ fibre termination kit

Kit Includes:

- Termination tool (patent pending)
- Precision cleaver
- Visual fault locator (VFL)
- Visual fault locator 1.25mm adapter
- Jacket stripper
- Buffer stripper
- Scissors
- Tweezers
- Strip template
- Marker
- Alcohol pads
- Electrical tape
- Convenient carrying case

Replacement Parts

Part #	Description
FT-LB-TOOL	LightBow termination tool (patent pending)
FT-LB-CLV	LightBow cleaver
FT-LB-TMP	LightBow SC and LC strip template
FT-VFL-P-A	Visual fault locator pen
FT-VFL-ADPT-A	Visual fault locator 1.25mm (0.05 in.) adapter

LightBow™ Pre-Polished Connectors

Combined with Siemon's exclusive patent-pending LightBow termination tool, Siemon LightBow pre-polished mechanical splice connectors can be deployed with unsurpassed termination speed and quality via a built-in VFL verification window and the ability to adjust or reterminate. Available in both LC and SC configurations, these connectors support both multimode and singlemode versions of Siemon's XGLO® and LightSystem® solutions.

OPTICAL PERFORMANCE

Insertion Loss (Typical)
- MM: 0.20dB
- SM: UPC 0.20dB
- SM: APC 0.30dB

Return Loss (Typical)
- MM: -37 dB
- SM: UPC-55dB
- SM: APC
  - 60dB for 1310nm
  - 65dB for 1550nm

Ordering Information:

LC Multimode

Part #	Description
FC1-LB-LC6-9BG	LC simplex connector, beige, 62.5/125µm multimode, OM1, 900µm buffered fibre, white boot
FC1-LB-LC5-9AQ	LC simplex connector, aqua, 50/125µm multimode, OM3/OM4, 900µm buffered fibre, white boot

LC Singlemode

Part #	Description
FC1-LB-LCU-9BL	LC simplex connector (UPC), blue, singlemode, OS1/OS2, 900µm buffered fibre, white boot
FC1-LB-LCA-9GR	LC simplex connector (APC), green, singlemode, OS1/OS2, 900µm buffered fibre, white boot

SC Multimode

Part #	Description
FC1-LB-SC6-9BG	SC simplex connector, beige, 62.5/125µm multimode, OM1, 900µm buffered fibre, white boot
FC1-LB-SC5-9AQ	SC simplex connector, aqua, 50/125µm multimode, OM3/OM4, 900µm buffered fibre, white boot

SC Singlemode

Part #	Description
FC1-LB-SCU-9BL	SC simplex connector (UPC), blue, singlemode, OS1/OS2, 900µm buffered fibre, white boot
FC1-LB-SCA-9GR	SC simplex connector (APC), green, singlemode, OS1/OS2, 900µm buffered fibre, white boot

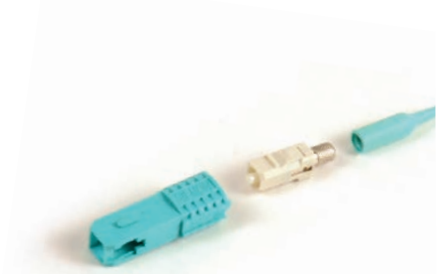
** For use with 900µm tight buffer terminations only - Fan-out kits to transition from 250µm to 900µm cannot be used with XLR8 connectivity.*

XGLO® & LightSystem® SC, LC, ST Epoxy Polish Connectors

SC Epoxy Polish Connectors

SC duplex connectors have a duplexing clip, which allows each connector to be removed individually. In the event fibre polarity is reversed during termination, there is no need to discard the connector. Simply remove connectors from the clip and switch to correct the mistake, saving valuable installation time and money. The duplexing clip also speeds troubleshooting. In the event there's a fault with a single connection, an individual connector can be removed from the clip and re-terminated without disturbing the adjacent connector.

SC connectors employ an outer housing that is colour-coded in accordance with ISO/IEC 11801 Ed. 2.0 and ISO/IEC TIA/EIA-568-B.3 requirements (beige for Multimode and blue for Singlemode).

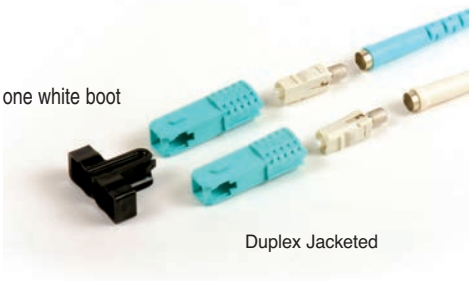


Simplex Buffered

Multimode (XGLO® and LightSystem®)

Part #	Description
FC1-SC-MM-B12	SC simplex connector, aqua, buffered fibre, aqua boot
FC1-SC-MM-B80	SC simplex connector, beige, buffered fibre, beige boot
FC1-SC-MM-J12	SC simplex connector, aqua, jacketed fibre, aqua boot
FC1-SC-MM-J80	SC simplex connector, beige, jacketed fibre, beige boot
FC2-SC-MM-B12	SC duplex connector, aqua, buffered fibre, two aqua boots
FC2-SC-MM-B80	SC duplex connector, beige, buffered fibre, two beige boots
FC2-SC-MM-J12	SC duplex connector, aqua, jacketed fibre, one aqua and one white boot
FC2-SC-MM-J	SC duplex connector, beige, jacketed fibre, one black boot and one beige boot
FC1-SC-EM-J16	SC simplex connector, erika violet, jacketed fibre,erika violet boot
FC1-SC-EM-J02	SC simplex connector, erika violet, jacketed fibre,white boot
FC1-SC-EM-B16	SC simplex connector, erika violet, buffer fibre,erika violet boot
FC2-SC-EM-J16	SC duplex connector, erika violet, jacketed fibre,one erika violet and one white boot
FC2-SC-EM-B16	SC duplex connector, erika violet,buffer fibre,two erika violet boots

Add "-B" to the end of part number for bulk pack (Simplex: 100/box, Duplex: 50/box).



Duplex Jacketed

Singlemode (XGLO)

Part #	Description
FC1-SC-SM-B06	SC simplex connector, blue, buffered fibre, blue boot
FC1-SC-SM-J06	SC simplex connector, blue, jacketed fibre, blue boot
FC2-SC-SM-B06	SC duplex connector, blue, buffered fibre, two blue boots
FC2-SC-SM-J06	SC duplex connector, blue, jacketed fibre, two blue boots

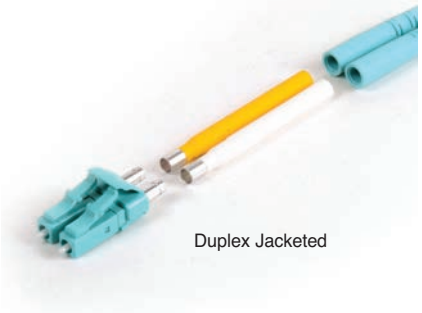
LC Epoxy Polish Connectors

Siemon LC products offer all the benefits of SC and ST connections in a Small Form Factor (SFF), high-density design. LC adapter products are compatible with MAX®, CT®, FOB, and MX-SM™ work area and telecommunications room products, providing a wide variety of installation options. LC connectors take just two minutes to terminate, using the Siemon *LightSpeed®* Termination Kit.

Simplex Buffered

Multimode (XGLO and LightSystem)

Part #	Description
FC1-LC-MM-B12	LC simplex connector, aqua, buffered fibre, aqua boot
FC1-LC-MM-B80	LC simplex connector, beige, buffered fibre, white boot
FC2-LC-MM-J12	LC duplex connector, aqua, jacketed fibre, two aqua boots
FC2-LC-MM-J80	LC duplex connector, beige, jacketed fibre, two beige boots
FC1-LC-EM-B16	LC simplex connector, erika violet, buffer fibre,erika violet boot
FC2-LC-EM-J16	LC duplex connector, erika violet, jacketed fibre,two erika violet boots



Duplex Jacketed

Singlemode (XGLO)

Part #	Description
FC1-LC-SM-B02	LC simplex connector, blue, buffered fibre, white boot
FC1-LC-SM-J02	LC simplex connector, blue, jacketed fibre, white boot
FC2-LC-SM-J02	LC duplex connector, blue, jacketed fibre, two white boots

Add "-B" to the end of part number for bulk pack (Simplex: 100/box, Duplex: 50/box).

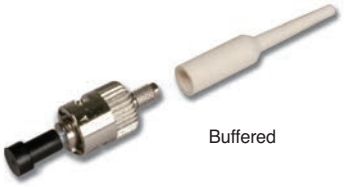
ST Epoxy Polish Connectors

The ST connector employs a rugged metal bayonet coupling ring with radial ramps which facilitate engagement to the studs of the mating adapter.

Multimode (XGLO and LightSystem)

Part #	Description
FC1-SA-MM-J80.	ST simplex connector, jacketed fibre, beige boot
FC1-SA-MM-B80.	ST simplex connector, buffered fibre, beige boot

Add "-B" to the end of part number for bulk pack (100/box).

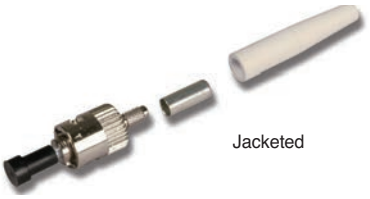


Buffered

Singlemode (XGLO)

Part #	Description
FC1-SA-SM-J06.	ST simplex connector, jacketed fibre, blue boot
FC1-SA-SM-B06.	ST simplex connector, buffered fibre, blue boot

Add "-B" to the end of part number for bulk pack (100/box).



Jacketed

LightSpeed® ST, SC Fibre Termination Kit

Achieve faster fibre terminations and higher performance with Siemon's *LightSpeed* Termination Kit. The Siemon fibre termination kit contains all the tools required for termination of Multimode or Singlemode ST or SC connectors — packaged in a rugged canvas carrying case. Kit includes LC microscope head. Use the optional LC Upgrade Kit (see below) for LC connector terminations. All consumables must be ordered separately as noted below.*

Part #	Description
FTERM-L2.	*LightSpeed* fibre termination kit for ST and SC Multimode connectors*

Note: Select tools and other termination products supplied with the kit can be ordered separately.

**All consumables including primer, adhesive and polishing films are contained in the consumables kit and must be ordered separately.*

LC Fibre Termination *LightSpeed*® Upgrade Kit

The Siemon LC upgrade kit is used in conjunction with the *LightSpeed* Termination Kit (FTERM-L2) and has all the accessories to terminate LC connectors using Siemon's exclusive *LightSpeed* adhesive. The kit includes an LC polishing puck and a micro-torch* (to shrink the colour-coded LC crimp sleeve tubing). The LC microscope head is included with the FTERM-L2 kit.

Part #	Description
FTERM-LC.	LC fibre termination upgrade kit (used in conjunction with FTERM-L2)

Note: Contents of FTERM-LC are also available individually.
Contact our Customer Service Department for more information.
**Butane fuel not included.*

LightSpeed® Fibre Consumables Kit

Siemon's *LightSpeed* fibre terminations consumables kit features a premium abrasive film to polish ceramic ferrules and glass at the same level. The films have been qualified to assure exceptional insertion and return loss results when used in accordance with Siemon instructions.

Part #	Description
FT-CKIT-L2*	Consumables kit for use with fibre termination kit (FTERM-L2). Includes enough consumables to perform a minimum of 200 Multimode or Singlemode terminations

Individual components may be ordered separately as replacements. Part numbers listed below.

FT-PRBOT-L	Primer bottle (3.5mL)
FT-ADH-L*	Adhesive syringe (5cc)
FT-ALPAD	Alcohol pads
FT-WIPES	Dry lint-free wipes
FT-SYRMTIP	Syringe tip needles w/covers
FT-PF12	12µm air polish film, grey
FT-PF3	3µm polish film, pink
FT-PF1	1µm polish film, purple
FT-FF	Finishing film, white
FT-PF6**	6µm recovery film, bronze

**This product contains material with a time and temperature sensitive shelf life. Store between 4.4 – 38.5°C and verify expiration date marked on product prior to use.*

***This recovery film is optional and not included with the consumables kit.*

Replacement Tools for Fibre Termination Kits

Siemon offers a full line of replacement tools in the event that a tool is lost or has used up its life expectancy. The replacement tools are the exact tools provided in the fibre termination kits.

Part #	Description
FT-MS400	400X power microscope
FT-SCRIBE	Double bladed fibre cleaver
CI-SCISSORS	Electrician scissors
FT-CRIMP	Crimp tool w/3-position die for ST/SC/LC
FT-PAD	152.4 x 152.4mm(6 x 6 in.) polishing pad
FT-PUCK	SC/ST compatible polishing puck
FT-TMPL	Template for SC/ST and LC connectors
FT-JSTRP	Jacket stripper
FT-BSTRP	Buffer stripper
FT-LCPUCK	Duplex LC polishing puck
FT-MSLC2HEAD	Duplex LC scope adapter
FT-VFL-P-A	VFL PEN, 2.5mm (0.1 in.) universal connector adapter for SC, ST and FC
FT-VFL-ADPT-A	2.5mm (0.1 in.) to 1.25mm (0.05 in.) universal connector adapter for LC and MU

Fibre Cleaning Tools

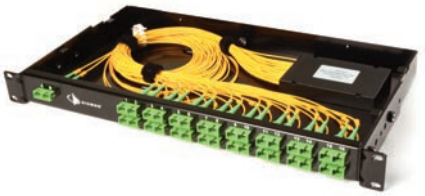
Simple to use and highly effective at removing contaminants that can degrade the optical performance of critical fibre connections, these dry cloth cleaning tools are specially designed to clean multi-fibre MTP® connectors as well as LC and SC fibre connectors. The MTP version cleans both male MTP connectors in Plug and Play modules and female connectors in adapter plates. LC and SC versions clean installed connectors as well as unmated connectors via an innovative dustcap/adapter.

Part #	Description
PP-CT-MP	MTP multi-fibre connector cleaning tool
PP-CT-LC	LC simplex fibre connector cleaning tool
PP-CT-SC	SC simplex fibre connector cleaning tool

Fibre Splitter Panel

The Fibre Splitter Panel uses advanced PLC (Planar Lightwave Circuit) technology to enable multiple fibre connections with superior optical performance. This method uses splitter devices fabricated with silica optical waveguide elements which results in low insertion loss, high uniformity, and low polarisation dependent loss (PDL). The Fibre Splitter Panel is a 19 inch rack mount unit with SC or LC ports in either UPC or APC versions. It is available in various port configurations ranging from 1 or 2 inputs and 8 to 32 output ports.

The Fibre Splitter Panel is ideal for Passive Optical LAN 's and other singlemode applications requiring high performance splitting of optical signals. Siemon offers a complete range of fibre cables and connectivity, including preterminated MTP solutions, to complete an entire passive optical channel.



- **1X Splitters:**
  Traditional splitters with a single input and multiple outputs
- **Dual Splitters:**
  Packages two 1X splitters in a single cassette. There are two inputs for these splitters and each input connects to different output ports. There is no connection between the two splitters.
- **2X Splitters:**
  These splitters provide two inputs and multiple outputs but, unlike a dual splitter, both inputs connect to all outputs provided that both inputs are not transmitting at the same time. These splitters allow redundancy by having two inputs feed all available outputs.

Ordering Information:

FSR-(XXX)(XXX)(XXX)(XX)..... Fibre Splitter Panel, 1U, black

I/O Ratio
- **108** = 1 X 8
- **116** = 1 X 16
- **132** = 1 X 32
- **208** = 2 X 8
- **216** = 2 X 16
- **D16** = (2) 1 X 16
- **232** = 2 X 32

Input Connector
- **SCU** = SC/UPC
- **SCA** = SC/APC
- **LCU** = LC/UPC
- **LCA** = LC/APC

Output Connector
- **SCU** = SC/UPC
- **SCA** = SC/APC
- **LCU** = LC/UPC
- **LCA** = LC/APC

Colour
- **01** = Black

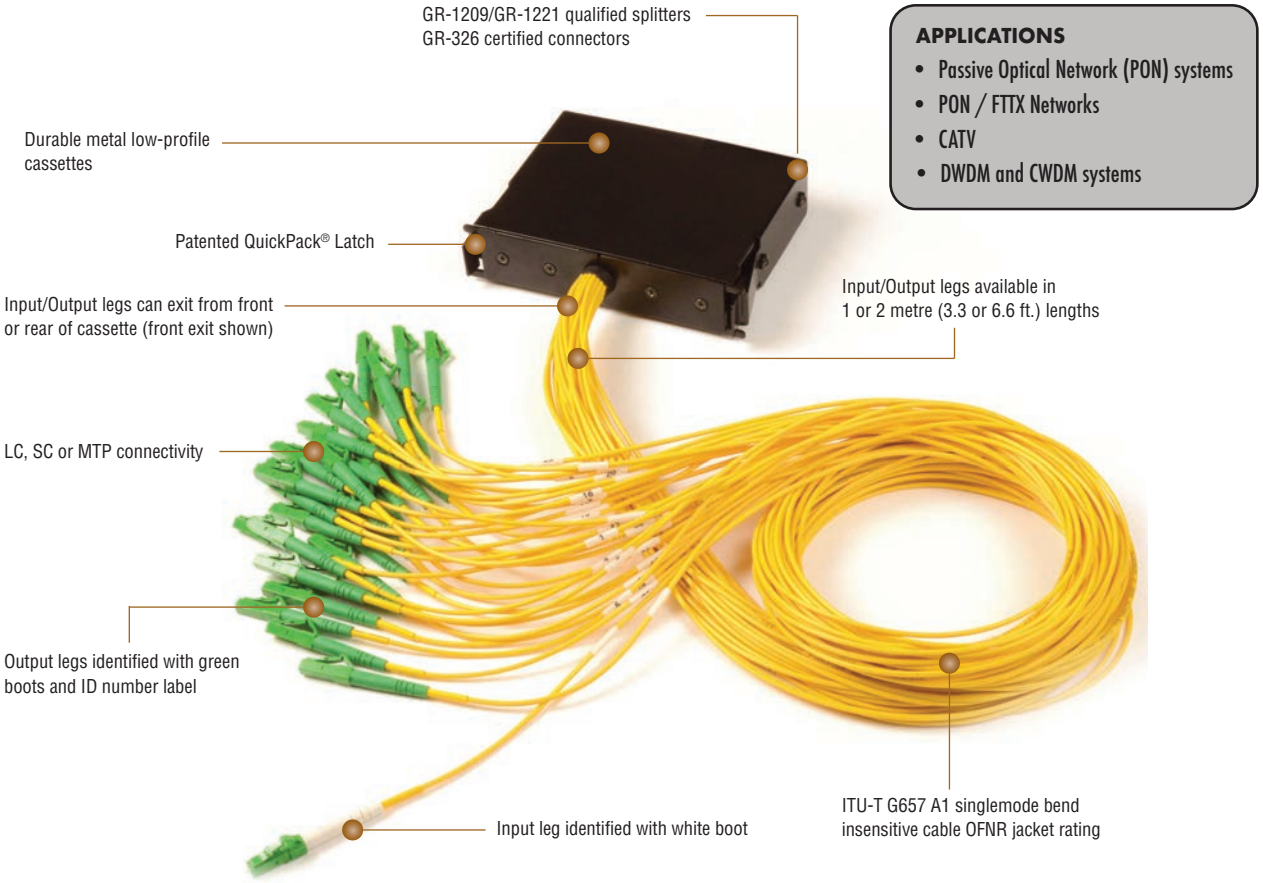
SPECIFICATIONS

Parametre	1x8	2x8	1x16	2x16	1x32	2x32
Splitter Technology	Planar Lightwave Circuit (PLC)					
Fibre Type	Singlemode					
Operating Wavelength (nm)	1260-1650					
Insertion loss (dB) max	11.2	12.0	14.2	15.0	17.5	17.8
Polarization Dependent Loss (dB)	0.3	0.4	0.3	0.4	0.3	0.4
Splitter Uniformity (dB) max	1.0	1.7	1.2	2.0	1.5	2.1
Wavelength dependent Loss (dB)	0.4	1.0	0.5	1.0	1.0	1.0
Directivity (dB) min	>55					
Splitter Return Loss (dB) APC Min	>55					
Splitter Return Loss (dB) UPC Min	>50					
Fibre Cable	2mm LSOH ITU G652D					
Connector Types	SC/APC, SC/UPC, LC/APC or LC/UPC					
Storage Temp. (ºC)	-40 to +85 (-40 to 185˚ F)					
Operation Temp. (ºC)	-40 to +85 (-40 to 185˚ F)					
Operation/Storage Humidity (%RH)	5 to 95					
Mounting	19 inch (482.6mm) rack CEA-310-E					
Material	Stainless steel and aluminium					
Colour	Black with E-Coat finish					
Compliance	GR-1209/GR-1221 qualified splitter. GR-326 certified connectors					

Fibre Splitter Cassettes

The Siemon Fibre Splitter Cassettes use advanced PLC (Planar Lightwave Circuit) technology to enable multiple fibre connections with superior optical performance. This method uses splitter devices fabricated with silica optical wave-guide elements which results in low insertion loss, high uniformity, and low polarisation dependent loss (PDL). The Splitters are compatible with Siemon fibre enclosures and panels including the Fibre Connect Panel (FCP3), Wall Mount Interconnect centre(SWIC3), Rack Mount Interconnect centre(RIC3), Rack Mount Panel (RIC-PNL) and VersaPOD® Zero-U patch panels. The Splitters are available in SC, LC and MTP interfaces with various port configurations ranging from 1 or 2 input ports and 8 to 32 output ports.

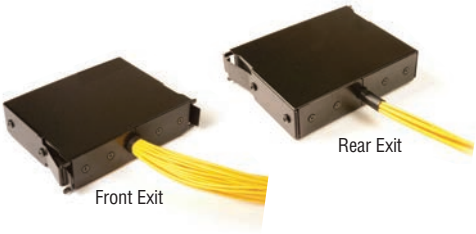
The Fibre Splitter Cassettes are ideal for Passive Optical Network (PON) and other singlemode applications requiring high performance splitting of optical signals. Siemon offers a complete range of fibre cables and connectivity, including preterminated SC, LC and MTP solutions, to complete an entire passive optical channel.



APPLICATIONS

- Passive Optical Network (PON) systems
- PON / FTTX Networks
- CATV
- DWDM and CWDM systems

Wall Mounted Application — Siemon front exit cassette (FSC-132LCA-F01M) and adapter bracket (SWIC3G-E-BRKT) installed into an expaned SWIC enclosure (SWIC3G-E-AA-01)



Front and Rear Exit Versions are Available — The optional exits enable versatile mounting and leg routing to support a variety of environments and applications. When using the SWIC3G-E-BRKT with the expanded SWIC3G-E enclosure, only the front exit version is installed.

MTP Version is Available — Utilising MTP cassettes with MTP trunks in the channel provides greater density, reduces the amount of cable and lessens the installed connections when compared to an LC or SC solution.

Fibre Splitter Cassettes

Ordering Information:

FSC-(XXX)(XXX)-(X)(XX)M . . . . . LC and SC splitter cassette

I/O Ration
108 = 1x8
116 = 1x16
132 = 1x32
D16 = Dual (2) 1x16
232 = 2x32

Connector
LCA = LC APC
SCA = SC APC

Length
01 = 1m (3.28 ft.)
02 = 2m (6.56 ft.)

Input/Output Leg Exit
F = Front
R = Rear

FSC-132(XXX)-(X)(XX)M . . . . . MTP splitter cassette

Connector
MLA = LC APC to MTP
MSA = SC APC to MTP

Length
01 = 1m (3.28 ft.)
02 = 2m (6.56 ft.)

Input/Output Leg Exit
F = Front
R = Rear

- **1X Splitters:**
  Traditional splitters with a single input and multiple outputs
- **Dual Splitters:**
  Packages two 1X splitters in a single cassette. There are two inputs for these splitters and each input connects to different output ports. There is no connection between the two splitters.
- **2X Splitters:**
  These splitters provide two inputs and multiple outputs but, unlike a dual splitter, both inputs connect to all outputs provided that both inputs are not transmitting at the same time. These splitters allow redundancy by having two inputs feed all available outputs.

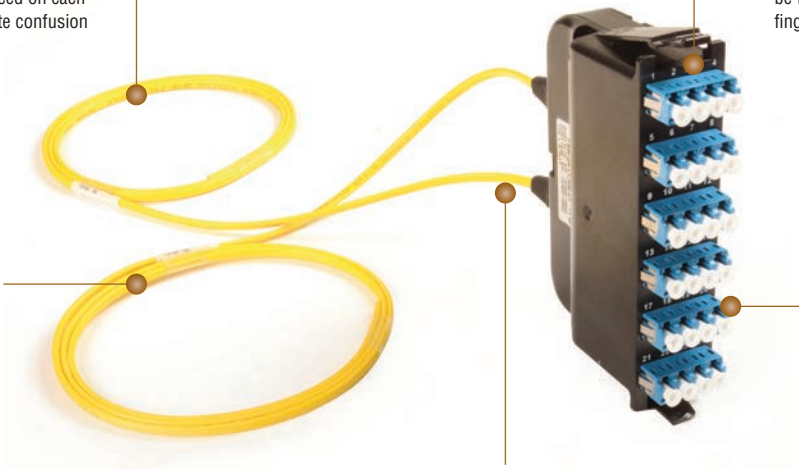
Parametre	1x8	1x16	1x32	2x32	1x32 (MTP)
Splitter Technology	Planer Lightwave Circuit (PLC)				
Fibre Type	Singlemode, OFNR				
Operating Wavelength (nm)	1260-1650				
Splitter Insertion loss (dB) Max	10.2	13.5	16.5	17.4	16.5
Polarization Dependent Loss (dB)	0.3	0.3	0.3	0.4	0.4
Splitter Uniformity (dB) Max	1	1.2	1.5	2.1	2.1
Wavelength dependent Loss (dB)	0.4	0.5	1	1	1
Directivity (dB) Min	>55				
Splitter Return Loss (dB) APC Min	>55				
Connectorized Splitter Insertion loss (dB) Max	11	14.3	17.3	18.2	17.5
Connectorized Splitter Return loss (dB) Max	55	55	55	55	55
Fibre Cable	2mm, ITU G657.A1 SM BIF (MTP is 3mm)				
Connector Types	SC/APC, LC/APC, MTP/APC				
Storage Temp. (ºC) & Operation Temp. (ºC)	-40 to +85 (-40 to 185 F)				
Operation/Storage Humidity (% RH)*	5 to 95				
Nominal Dimensions: L x W x H	95mm (3.75 in.) x 118mm (4.65 in.) x 32mm (1.25 in.)				
Material	Stainless steel and aluminium				
Colour	Black with powder coat finish				
Mounting	Fits within Siemon RIC, FCP, all SWIC enclosures, RIC panels and VersaPOD Zero-U panels				
Standards Compliance	GR-1209/GR-1221 qualified splitter, GR-326 certified connectors				

Fusion Splice Solutions - Fibre Splice Modules

Siemon Splice Modules provide an interface between bulk cable and LC duplex jumpers that connect directly to active equipment. The splice modules are offered in ribbon or 900um tight buffer pigtail options. These modules allow mass-fusion splicing of ribbon pigtails directly to ribbon cable or 900um tight buffer pigtails to loose fibre cable. The splice modules are designed using Siemon's Quick-Pack® footprint and work in conjunction with Siemon's Expanded RIC or FCP3 fibre enclosures.

Colour Coded Fibres — Allows for like-colour fibres to be fusion spliced on each side of the channel to eliminate confusion

Quick-Pack® Splice Modules — Can be inserted or removed with a single finger for quick and easy access



Jacketed Pigtail — Available in ribbon or 900um tight buffer fibre

LC Interface — Available in 12 or 24 fibres

Strain Relief — Cable passes through strain relief boot at the rear of the module and is preterminated to an LC connector plugged into the back of the LC adapter. Custom designed boot maintains bend radius for the fibre exiting the modules

LC Fibre Port Position		
Pigtail Colour	**A Side Polarity***	**B Side Polarity***
Blue	1/13	2/14
Orange	2/14	1/13
Green	3/15	4/16
Brown	4/16	3/15
Slate	5/17	6/18
White	6/18	5/17
Red	7/19	8/20
Black	8/20	7/19
Yellow	9/21	10/22
Violet	10/22	9/21
Rose	11/23	12/24
Aqua	12/24	11/23

Fibre Splice Module Performance			
Fibre Type		**MAX. Insertion Loss (dB)**	**MIN. Return Loss (dB)**
6MM	62.5/125 (OM1)	0.50	25
5MM	50/125 (OM2)	0.50	25
5L-MM	50/125 (OM3)	0.25	30
5V-MM	50/125 (OM4)	0.25	30
SM-LWP	SM (OS1/OS2)	0.25	55

** Opposing splice module types must be used on opposite ends (example: "A" side & "B" side) of the same fibre link to maintain proper polarity from transmitter to receiver*

Ordering Information:

FSM-(X)-(XX)-LC(X)(XX)-01(X)

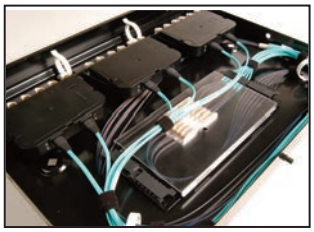
Fibre Construction
Blank = Ribbon
2 = 900µm Tight Buffer

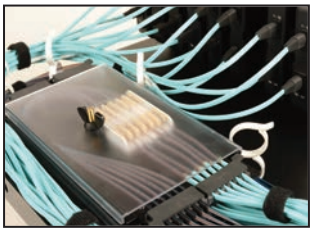
Port
12 = 12 port
24 = 24 port

Polish
Blank = UPC
A = APC (Singlemode Only)

Fibre Type
6 = OM1, 62.5/125 Multimode Beige adapters
5L = OM3, XGLO 300 50/125 Multimode Aqua adapters
5V = OM4, XGLO 550 50/125 Multimode Aqua adapters
SM = OS1/OS2, Singlemode Blue adapters

Module Type
A = A Side Polarity
B = B Side Polarity





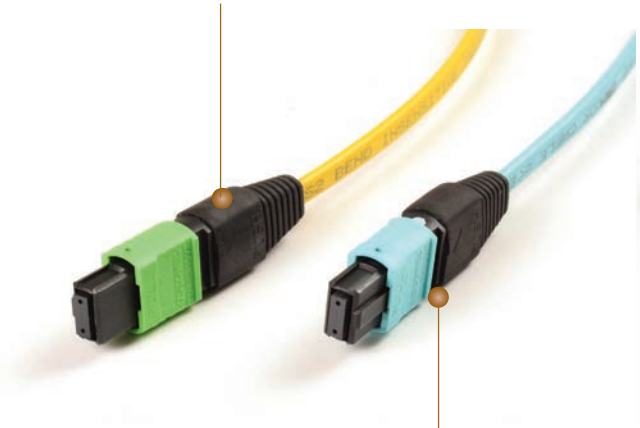
Expanded RIC Fibre Enclosures — The fibre splice modules can be used in Siemon's Expanded RIC or FCP3 fibre enclosures.

Fusion Splice Solutions - MTP Pigtails

Siemon's fusion splice solutions include an MTP pigtail option which can be connected to a RIC MTP adapter plate or plug and play module and then mass fusion spliced within the fibre enclosures. MTP pigtails are the ideal solution when field-installing an MTP interface for a 40/100G application.

MTP Connector Gender — Options for both male or female

Identification —Pigtails are serialised for easy identification and reference to test data that ships with every pigtail



Performance — All MTP pigtails are manufactured to Low Loss specifications

Jacketed Pigtail — Available in ribbon fibre, OM3, OM4 and Singlemode

MTP PIGTAIL OPTICAL SPECIFICATIONS

Fibre Type	Perfomance Class	Max. Inserion Loss (dB)	Min. Return Loss (dB)
5L	OM3 XGLO 300 Low Loss	0.20	20
5V	OM4 XGLO 500 Low Loss	0.20	20
SM-LWP	OS1/OS2 XGLO Singlemode	0.75	55

Ordering Information

FP12-(X)-(XX)(XX)(X)-(XX)(X)

Cable Jacket
A = Ribbon Jacket

MTP Gender
MM = MTP Male
MF = MTP Female

Fibre Type
5L = OM3, XGLO 300 50/125 Multimode
5V = OM4, XGLO 550 50/125 Multimode
SM = OS1/OS2, Singlemode

Cable Jacket Rating
P = Plenum
L = LSOH

Length Unit
F = Feet
M = Metre

Length*
Length must be 3 digits
Example: 003 = 3m
010 = 10 ft.

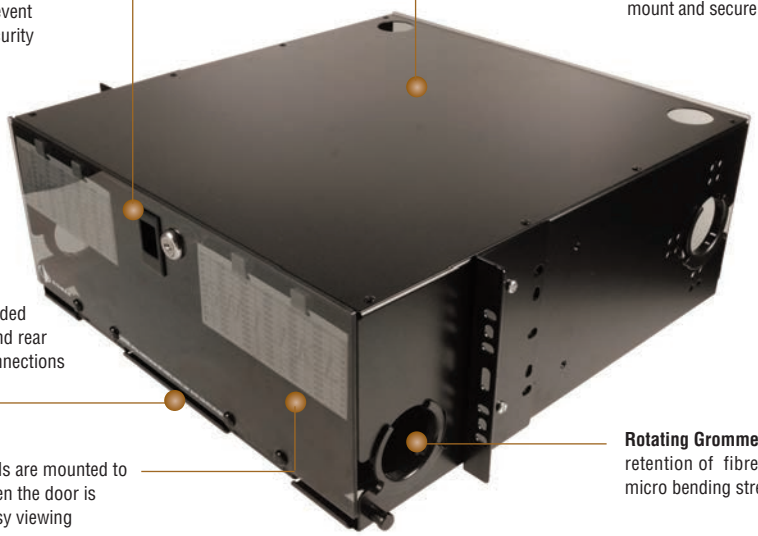
MTP Pigtail — The MTP pigtail allows for field installable MTP connectivity using ribbon cable and mass fusion splice installation practices

Fusion Splice Solutions - Expanded RIC Enclosure

Siemon's Rack Mount Interconnect Centre provides superior fibre density without sacrificing protection and accessibility. Key features include extending the depth of the enclosure to allow added space for fusion splicing and cable slack storage. With superior cable management, port identification, fibre accessibility and security, the Expanded RIC is the best way to protect mission critical fibre connections.

Security — Single finger latch on both front and rear doors. Included key locks prevent unauthorised access for enhanced security

Splicing Capability — Extra space provided to mount and secure multiple splice trays in position



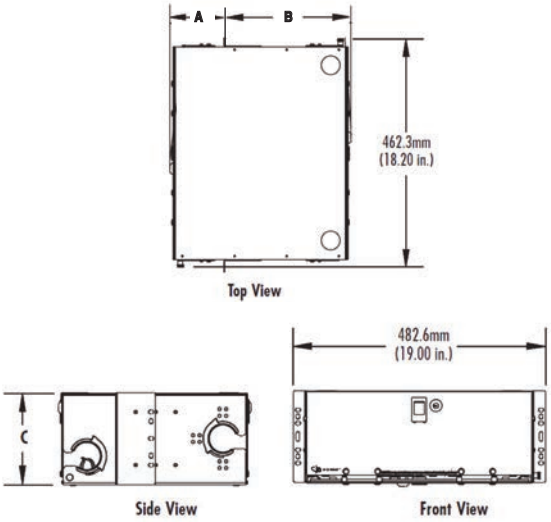
Quick Release Hinges — Spring loaded hinges enable easy removal of front and rear doors for complete access to fibre connections

Port Identification — Hinged labels are mounted to the front door for full visibility. When the door is opened, the labels flip down for easy viewing

Rotating Grommets — Facilitate loading and retention of fibre jumpers while minimising micro bending stress when using the sliding tray

EXPANDED RIC ENCLOSURE DIMENSIONS

Expanded RIC3 Part #	Mounting Bracket Position	A	B	C
		mm (in.)	mm (in.)	mm (in.)
RIC3-E-24-01	1	109.7 (4.3)	360.4 (14.2)	85.7 (3.4)
	2	147.8 (5.8)	322.3 (12.7)	85.7 (3.4)
	3	185.9 (7.3)	284.2 (11.2)	85.7 (3.4)
RIC3-E-36-01	1	109.7 (4.3)	360.4 (14.2)	85.7 (3.4)
	2	147.8 (5.8)	322.3 (12.7)	85.7 (3.4)
	3	185.9 (7.3)	284.2 (11.2)	85.7 (3.4)
RIC3-E-48-01	1	109.7 (4.3)	360.4 (14.2)	130.2 (5.1)
	2	147.8 (5.8)	322.3 (12.7)	130.2 (5.1)
	3	185.9 (7.3)	284.2 (11.2)	130.2 (5.1)
RIC3-E-72-01	1	109.7 (4.3)	360.4 (14.2)	174.6 (6.9)
	2	147.8 (5.8)	322.3 (12.7)	174.6 (6.9)
	3	185.9 (7.3)	284.2 (11.2)	174.6 (6.9)



FUSION SPLICE MAX CAPACITY

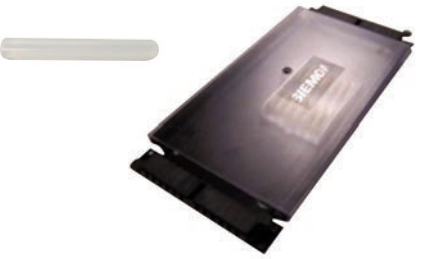
Solution	Splice Type	FCP3	RIC3-24	RIC3-36	RIC3-48	RIC3-72
MTP Pigtail	Fusion Ribbon	216	288	288	288	432
Fibre Splice Module	Fusion Ribbon	72	96	144	192	288
	Fusion 900m	72	96	96	96	144

RIC3-E-(XX)-01 . . . . . Expanded RIC Enclosures

Enclosure Size

24 = Enclosure with 4 adapter/module mounting spaces, 2U, Black
36 = Enclosure with 6 adapter/module mounting spaces, 2U, Black
48 = Enclosure with 8 adapter/module mounting spaces, 3U, Black
72 = Enclosure with 12 adapter/module mounting spaces, 4U, Black

Mass Fusion Splice Accessories



Part #	Description
HT-MFS	40mm (1.6 in.) Mass fusion heat shrink sleeve for ribbon fibre
TRAY-4-R-MFS	Mass fusion spice tray for up to (6) 12 fibre splices with sleeve protection holder

Single Fibre Fusion Splice Accessories

Part #	Description
HT-40	40mm (1.6 in.) Single fibre heat shrink sleeve
HT-60	60mm (2.4 in.) Single fibre heat shrink sleeve

**Heating times may vary depending on heat source.*

TRAY-3	Standard splice tray for up to 24 fusion splices with sleeve protection. For use with Expanded RIC and FCP3 fibre enclosures
TRAY-M-3	Mini splice tray for up to 12 fusion splices with sleeve protection

XGLO® Indoor Ribbon Fibre Cable (Global)

Siemon indoor ribbon fibre cables are ideal for data centres, campus and building backbones. Ribbon cables enable the migration to high fibre count systems required to support high bandwidth applications including 10, 40 and 100Gb/s. These cables contain 12-fibre ribbon units inside a central tube with dielectric strength members for tensile strength and colour coded fibres with individual ribbon unit ID numbers for clear identification. Siemon fibre optic cables are offered in XGLO configurations supporting high-speed, applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fibre Channel.

Ordering Information:

9BR(X)(X)(XXX)G-(XXXX)(X) . . . . . XGLO Multimode Laser Optimised 50/125 OM3 and OM4 Singlemode OS1/OS2

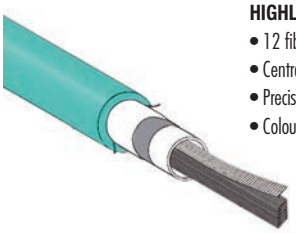
Fibre Type
- **5** = 50/125µm
- **8** = OS1/OS2 Singlemode

Fibre Jacket Type
- **R** = Riser OFNR
- **P** = Plenum OFNP
- **H** = LSOH - 3C

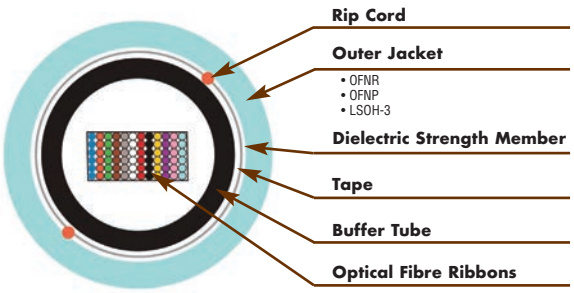
Fibre Count (Subunit)
- **012** = 12 (1 Ribbon with 12 Fibres)
- **024** = 24 (2 Ribbon with 12 Fibres)
- **036** = 36 (3 Ribbon with 12 Fibres)
- **048** = 48 (4 Ribbon with 12 Fibres)
- **072** = 72 (6 Ribbon with 12 Fibres)
- **096** = 96 (8 Ribbon with 12 Fibres)
- **144** = 144 (12 Ribbon with 12 Fibres)
- **216** = 216 (18 Ribbon with 12 Fibres)
- **288** = 288 (24 Ribbon with 12 Fibres - Riser only)

Unit of Measure
- **A** = Feet for North America
- **M** = Metre for International

Class Performance
- **T312** = OM3 50/125 Laser Optimised (Aqua Jacket)
- **T512** = OM4 50/125 Laser Optimised (Aqua Jacket)
- **E205** = OS1/OS2 Singlemode (Yellow Jacket)



HIGHLIGHTS
- 12 fibre ribbon design
- Central tube design
- Precision fibre and ribbon geometries
- Colour coded per TIA-598-C



XGLO 300 Multimode 50/125, OM3

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (ETL) and CSA FT4 (ETL)
- OFNP: Communications Type OFNP (ETL) and CSA FT6 (ETL)
- IEC 60332-3
- IEC 60332-1-2 (Single strand)
- IEC 60754-2 (Acid gas)
- IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-SX (850 nm)	1000
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode 50/125, OM4

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 2 OM4
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fibre Type A1a.3
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (ETL) and CSA FT4 (ETL)
- OFNP: Communications Type OFNP (ETL) and CSA FT6 (ETL)
- IEC 60332-3
- IEC 60332-1-2 (Single strand)
- IEC 60754-2 (Acid gas)
- IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-SX (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Singlemode, OS1/OS2

STANDARDS COMPLIANCE
- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- Telcordia GR-409-CORE
- ITU-T G.652 C/D
- OFNR: Communications Type OFNR (ETL) and CSA FT4 (ETL)
- OFNP: Communications Type OFNP (ETL) and CSA FT6 (ETL)
- IEC 60332-3
- IEC 60332-1-2 (Single strand)
- IEC 60754-2 (Acid gas)
- IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® Indoor Ribbon Fibre Cable (Global)

Minimum Performance Parametres for XGLO 50/125µm Multimode Fibre

Fibre Type	Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz•km)		Maximum Attenuation (dB/km)		Group Index of Refraction	
	850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm
50/125 (OM3)	1000	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.0	1.0	1.483	1.479
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0	1.483	1.479

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fibre

Fibre Type	Wavelength (nm)	Maximum Attenuation (dB/km)	Zero Dispersion Wavelength (nm)	Zero Dispersion Slope (nm^2-km)	Index of Refraction
Singlemode (OS1/OS2)	1310	0.40	1317	≤0.092	1.468
	1300 - 1324	0.40	1317	≤0.092	1.468
	1383	0.40	1317	≤0.092	1.468
	1550	0.30	1317	≤0.092	1.468

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons		Maximum Net Weight kg/km		
		Installation	Long Term			
	OFNR/ OFNP/ LSOH	OFNR/ OFNP/ LSOH	OFNR/ OFNP/ LSOH	OFNR	OFNP	LSOH
12, 24, 36,48	9.7	1320	400	88	99	93
72, 96	12.4			140	156	147
144, 216	15.2			184	220	193
288	20.1 (OFNR only)			309	n/a	n/a

Fibre Count	Maximum Crush Resistance (N/mm)	Maximum Flex Resistance (N/mm)	Operating Temperature °C (°F)			Installation Temperature °C (°F)			Storage Temperature °C (°F)			Minimum Bend Radius cm (in.)	
			OFNR	OFNP	LSOH	OFNR	OFNP	LSOH	OFNR	OFNP	LSOH	Installation	Long Term
12, 24, 36, 48	100	25	-20 to 70° (-4 to 158°)	0 to 70° (32 to 158°)	-40 to 70° (-40 to 158°)	-10 to 60° (14 to 140°)	0 to 60° (32 to 140°)	-30 to 60° (-22 to 140°)	-40 to 70° (-40 to 158°)	-40 to 70° (-40 to 158°)	-40 to 70° (-40 to 158°)	9.6 (3.8)	14.4 (5.7)
72, 96												12.4 (4.8)	18.6 (7.3)
144, 216												15.5 (6.1)	22.8 (9.0)
288				n/a	n/a		n/a	n/a		n/a	n/a	21.0 (8.3)	31.7 (12.5)

Custom lengths are available upon request. Contact our Customer Service Department for more information.

XGLO® & LightSystem® Indoor Tight Buffer - International

Siemon indoor tight buffer fibre cables are ideal for data centres, campus and building backbones. Siemon fibre optic cables are offered in XGLO and LightSystem configurations supporting high-speed applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fibre Channel.

Ordering Information:

9F(XXX)B(X)-(XXX)(XXXX) . . . . . LightSystem Multimode 62.5/125 OM1 and XGLO Multimode 50/125 OM3 and OM4, Singlemode 0S1/0S2

Fibre Type

5L = OM3 50/125µm Laser Optimised, Aqua
5V = OM4 50/125µm Laser Optimised, Aqua
5VE = OM4 50/125µm Laser Optimised, Erika Violet
6 = 62.5 orange
8L = OS1/OS2 Singlemode, Yellow

Length

Length must be 4 digits including decimal point
Example:
1.00 = 1km
0.50 = 500m

Cable Rating

1 = Riser OFNR
2 = Plenum OFNP
3 = LSOH - 3C

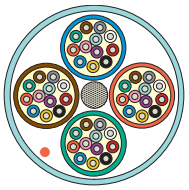
Fibre Count (Subunit)

02F = 2 (1 Tube with 2 Fibres)
04A = 4 (1 Tube with 4 Fibres)
06B = 6 (1 Tube with 6 Fibres)
08C = 8 (1 Tube with 8 Fibres)
12D = 12 (1 Tube with 12 Fibres)
16K = 16 (1 Tube with 16 Fibres)
24L = 24 (1 Tube with 24 Fibres)
48D = 48 (4 Tubes with 12 Fibres)
72D = 72 (6 Tubes with 12 Fibres)

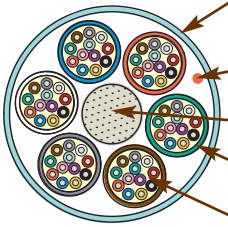
HIGHLIGHTS

- 900µm tight buffer
- 250µm coated optical fibre
- Length markings in 0.61m (2 ft.) increments
- Colourcode per TIA-598-C

2-24 Fibre



48 Fibre



72 Fibre

Jacket (Aqua)

- Material:
  OFNR - PVC
  OFNP - FRPVC
  LSOH - LSOH Compound

Rip Cord

- Applied longitudinally under cable jacket

Central Strength Member

- Light-weight solid dielectric
- 48, 72 Strand

Aramid Yarn

- Water blocking swellable yarn

Identification

- Colour-coded fibres
- Colour-coded buffer tubes

LIGHTSYSTEM Multimode 62.5/125, Multimode, OM1

STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAA
- Telcordia GR-409-CORE
- LSOH IEC 60332-3

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	N/A
62.5/125µm	26
1000BASE-S (850 nm)	N/A
62.5/125µm	275
1000BASE-LX (1300 nm)	550
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 300 Multimode 50/125, OM3

STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM3
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- Telcordia GR-409-CORE
- IEC 60793-2-10 Fibre Type A1a.2
- LSOH IEC 60332-3

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode 50/125, OM4

STANDARDS COMPLIANCE

- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 2 OM4
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fibre Type A1a.3
- Telcordia GR-409-CORE
- LSOH IEC 60332-3

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1000
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Singlemode, OS1/OS2

STANDARDS COMPLIANCE

- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA/EIA-568-C.3
- ANSI/TIA-598-D
- ANSI/TIA-492 CAAB
- Telcordia GR-409-CORE
- ITU-T G.652 C/D
- LSOH IEC 60332-3

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® & LightSystem® Indoor Tight Buffer - International

LightSystem® Gigabit Ethernet Fibre Optic Cable

Minimum Performance Parametres for LightSystem 62.5/125µm Multimode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz•km)	Guaranteed Gigabit Transmission Distance (Metres)
62.5/125 (OM1)	850	3.5	200	275
	1300	1.0	500	550

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

Minimum Performance Parametres for XGLO 50/125µm Multimode Fibre

Fibre Type	Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz•km)		Maximum Attenuation (dB/km)	
	850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm
50/125 (OM3)	1000	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.0	1.0
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fibre

Fibre Type	Wavelength (nm)	Maximum Attenuation (dB/km)
Singlemode (OS1/OS2)	1310	0.40
	1550	0.30

XGLO and LightSystem Indoor Tight Buffer (International) Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons				Net Weight kg/km		
		Installation		Long Term				
	OFNR/ LSOH/ OFNP	OFNR/ LSOH	OFNP	OFNR/ LSOH	OFNP	OFNR	OFNP	LSOH
2	4.8	660	440	198	132	18	19	19
4	4.8	660	440	198	132	20	21	20
6	4.8	660	440	198	132	22	23	22
8	5.4	660	440	198	132	26	28	27
12	6.2	660	440	198	132	33	35	33
16	7.8	1320	660	396	198	48	52	49
24	8.8	1320	660	396	198	61	65	62
48	17.4	1320	660	396	198	239	262	248
72	21.0	1320	660	396	198	361	396	375

Fibre Count	Maximum Crush Resistance (N/mm)	Operating Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C (°F)	Minimum Bend Radius	
					Installation	Long Term
2-72	10	-20 to 70 (-4 to 158)	0 to 60 (-32 to 140)	-40 to 70 (-40 to 158)	10 x DIA.	20 x DIA.

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

XGLO® & LightSystem® Interlocking Aluminium Armour Indoor Tight Buffer Fibre Cable - Global

Siemon interlocking aluminium armour indoor tight buffer fibre cables are ideal for data centres, campus and building backbones as well as industrial applications. The interlocking armour cable is a robust aluminium armour design that provides higher compression crush strength, rodent resistance and increased security. Siemon interlocking armour fibre cables may be installed as an alternative to traditional fibre cables in plenum inner duct or conduit, providing a less expensive single-pull solution with estimated savings of 25-50% in materials and estimated labor savings up to 60%. Siemon fibre optic cables are offered in LightSystem and XGLO configurations supporting high-speed applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fibre Channel.

Ordering Information:

9BC(X)(X)(XXXX)-(XXX)A . . . . . LightSystem Multimode 62.5/125 OM1, XGLO Multimode Laser Optimised 50/125 OM3, OM4 Singlemode OS1/OS2

Fibre Type
- **6** = 62.5/125µm
- **5** = 50/125µm
- **8** = OS1/OS2 Singlemode

Length
- **A** = Feet

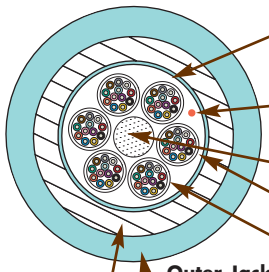
Cable Rating
- **R** = OFCR
- **P** = OFCP

Class Performance
- **G109** = OM1 62.5/125µm, Orange
- **T312** = OM3 50/125µm Laser Optimised, Aqua
- **T512** = OM4 50/125um Laser Optimised, Aqua
- **T516** = OM4 50/125um Laser Optimised, Erika Violet
- **E205** = OS1/OS2 Singlemode, Yellow

Fibre Count (Subunit)
- **006D** = 6 (1 Tube with 6 Fibres)
- **012G** = 12 (1 Tube with 12 Fibres)
- **024L** = 24 (1 Tube with 24 Fibres)
- **036G** = 36 (3 Tubes with 12 Fibres)
- **048G** = 48 (4 Tubes with 12 Fibres)
- **072G** = 72 (6 Tubes with 12 Fibres)
- **096G** = 96 (8 Tubes with 12 Fibres)
- **144G** = 144 (12 Tubes with 12 Fibres)

HIGHLIGHTS

- 900 µm tight buffer
- OFCR: Communications Type OFCR Engineering Testing Laboratories (ETL) or Underwriters Laboratories (UL) Type OFCR (Conductive Optical Fibre Riser Cable) and c(ETL or UL) OFC-FT6 75C.
- OFCP: Communications Type OFCP Engineering Testing Laboratories (ETL) or Underwriters Laboratories (UL) Type OFCP (Conductive Optical Fibre Plenum Cable) and c(ETL or UL) OFC-FT6 75C.
- Aluminium interlock offers greater than 10 times the crush resistance of a standard fibre cable
- Provides installation protection from bending and excessive pull tension
- Significant time and labor reductions versus conduit or inner duct installations



LIGHTSYSTEM Multimode 62.5/125, OM1

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492AAAB
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	N/A
62.5/125µm	26
1000BASE-SX (850 nm)	N/A
62.5/125µm	275
1000BASE-LX (1300 nm)	550
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 300 Multimode 50/125, OM3

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492AAAC
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-SX (850 nm)	1000
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode, 50/125, OM4

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 2 OM4
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fibre Type A1a.3
- Telcordia GR-409-CORE
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-SX (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-SX (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Singlemode, OS1/OS2

STANDARDS COMPLIANCE
- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 CAAB
- Telcordia GR-409-CORE
- ITU-T G.652.C/D
- OFNR: Communications Type OFNR (UL) and CSA FT4 c(UL)
- OFNP: Communications Type OFNP (UL) and CSA FT6 c(UL)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® & LightSystem® Interlocking Aluminium Armour Indoor Tight Buffer Fibre Cable - Global

LightSystem Gigabit Ethernet Fibre Optic Distribution Cable (Global)

Minimum Performance Parametres for LightSystem 62.5/125µm Multimode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz • km)	Guaranteed Gigabit Transmission Distance Metres (Feet)
62.5/125 (OM1)	850	3.5	200	275 (902)
	1300	1.0	500	550 (1804)

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

XGLO® 10 Gigabit Ethernet Fibre Optic Cable (Global)

Minimum Performance Parametres for XGLO 50/125µm Multimode Fibre

Fibre Type	Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz •km)		Maximum Attenuation (dB/km)	
	850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm
50/125 (OM3)	1000	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.0	1.0
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)
Singlemode (0S1/0S2)	1310	0.50
	1550	0.40

**Attenation specifications are in compliance with TIA-492 CAAB*

XGLO and LightSystem Physical Specifications (Global)

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fibre Count	Nominal Cable Diameter mm (in.)		Maximum Pulling Tension Newtons (lbf.)		Maximum = Net Weight kg/km (lb/1000 ft.)	
	OFCR	OFCP	Installation	Long Term	OFCR	OFCP
6	15.8 (0.624)	13.1 (0.517)	1335 (300)	400 (90)	179 (120)	117 (79)
8	15.8 (0.624)	13.3 (0.523)	1335 (300)	400 (90)	188 (126)	129 (87)
12	18.8 (0.740)	14.8 (0.584)	1780 (400)	534 (120)	248 (166)	176 (119)
24	24.4 (0.961)	20.9 (0.821)	2640 (600)	800 (180)	412 (277)	347 (233)
48	24.4 (0.961)	23.4 (0.921)	2640 (600)	800 (180)	448 (301)	408 (274)
72	32.1 (1.265)	24.7 (0.974)	2640 (600)	800 (180)	643 (432)	537 (361)
96	32.1 (1.265)	31.1 (1.230)	2640 (600)	800 (180)	775 (521)	749 (503)
144	32.1 (1.265)	31.1 (1.230)	4445 (1000)	1335 (300)	802 (539)	756 (508)

Fibre Type	Maximum Crush Resistance (N/mm)	Operating Temperature °C (°F)		Installation Temperature °C (°F)		Storage Temperature °C (°F)		Minimum Bend Radius	
		OFCR	OFCP	OFCR	OFCP	OFCR	OFCP	Installation	Long Term
6 - 144	44	-40 to 75 (-40 to 167)	-20 to 75 (-4 to 167)	-20 to 75 (-4 to 167)	-0 to 75 (-32 to 167)	-40 to 85 (-40 to 185)	-20 to 75 (-4 to 167)	20 x DIA.	10 x DIA.

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

XGLO® & LightSystem® Indoor/Outdoor Tight Buffer Fibre Cable - EMEA

Siemon LSOH (IEC 60332-1) indoor/outdoor tight buffer cables are ideal for data centres, campus and building backbones. Siemon fibre optic cables are offered in XGLO and LightSystem configurations supporting high-speed applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fibre Channel. Siemon indoor/outdoor water blocking is primarily for dry duct applications for moisture and temporary water migration protection.

Ordering Information:

9GD(X)L(XXXX)-(XXXX)M . . . . . LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3, 50/125 OM4, Singlemode

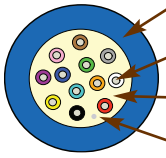
Fibre Type
- **6 =** 62.5/125µm
- **5 =** 50/125µm
- **8 =** OS1/OS2 Singlemode

Cable Rating
- **L =** LSOH - 1

Fibre Count (Subunit)
- **002B =** 2 (1 Tube with 2 Fibres)
- **004C =** 4 (1 Tube with 4 Fibres)
- **006D =** 6 (1 Tube with 6 Fibres)
- **008E =** 8 (1 Tube with 8 Fibres)
- **012G =** 12 (1 Tube with 12 Fibres)
- **016K =** 16 (1 Tube with 16 Fibres)
- **024L =** 24 (1 Tube with 24 Fibres)
- **048D =** 48 (8 Tubes with 6 Fibres)
- **072G =** 72 (6 Tubes with 12 Fibres)

Class Performance
- **G106 =** OM1 62.5/125µm, Blue
- **T306 =** OM3 50/125µm Laser Optimised, Blue
- **T506 =** OM4 50/125um Laser Optimised, Blue
- **T516 =** OM4 50/125um Laser Optimised, Erika Violet
- **E206 =** OS1/OS2 Singlemode, Blue

Length
- **M =** Metres



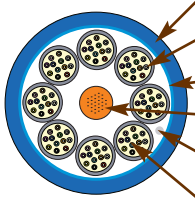
Jacket (Blue)
- Material: LSOH - LSOH Compound

Identification
- Colour-coded fibres

Aramid Yarn
- Water blocking swellable yarn

Rip Cord
- Applied longitudinally under cable jacket

2 - 24 Strands



Jacket (Blue)
- Material: LSOH - LSOH Compound

Aramid Yarn
- Water blocking swellable yarn

Water Blocking Swellable Tape

Central Strength Member
- Light-weight solid dielectric

Rip Cord
- Applied longitudinally under cable jacket

Identification
- Colour-coded fibres and tubes

48 - 72 Strands

LIGHTSYSTEM Multimode 62.5/125, OM1

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAA
- Telcordia GR-409-CORE
- IEC 60332-1-2 (Single strand)
  IEC 60754-1-2 (Non Halogens)
  IEC 60754-2 (Acid gas)
  IEC 61034-2 (Smoke density)
- EN 60332-1-2 Class Eca

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	N/A
62.5/125µm	26
1000BASE-S (850 nm)	N/A
62.5/125µm	275
1000BASE-LX (1300 nm)	550
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 300 Multimode 50/125, OM3

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- IEC 60793-2-10 Fibre Type Ala.2
- Telcordia GR-409-CORE
- IEC 60332-1-2 (Single strand)
  IEC 60754-1-2 (Non Halogens)
  IEC 60754-2 (Acid gas)
  IEC 61034-2 (Smoke density)
- EN 60332-1-2 Class Eca

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1000
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode 50/125, OM4

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 2 OM4
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fibre Type A1a.3
- Telcordia GR-409-CORE
- IEC 60332-1-2 (Single strand)
  IEC 60754-1-2 (Non Halogens)
  IEC 60754-2 (Acid gas)
  IEC 61034-2 (Smoke density)
- EN 60332-1-2 Class Eca

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Singlemode, OS1/OS2

STANDARDS COMPLIANCE
- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 CAAB
- Telcordia GR-409-CORE
- ITU-T G.652 C/D
- IEC 60332-1-2 (Single strand)
  IEC 60754-1-2 (Non Halogens)
  IEC 60754-2 (Acid gas)
  IEC 61034-2 (Smoke density)
- EN 60332-1-2 Class Eca

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® & LightSystem® Indoor/Outdoor Tight Buffer - EMEA

LightSystem Gigabit Ethernet Fibre Optic Cable

Minimum Performance Parametres for LightSystem 62.5/125µm Multimode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz•km)	Guaranteed Gigabit Transmission Distance Metres (Feet)
62.5/125 (OM1)	850	3.5	200	275 (902)
	1300	1.0	500	550 (1804)

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

Minimum Performance Parametres for XGLO 50/125µm Multimode Fibre

Fibre Type	Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz•km)		Maximum Attenuation (dB/km)	
	850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm
50/125 (OM3)	1000	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.0	1.0
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fibre

Fibre Type	Wavelength (nm)	Maximum Attenuation (dB/km)
Singlemode (OSI/OS2)	1310	0.40
	1550	0.30

XGLO and LightSystem Indoor/Outdoor Tight Buffer (EMEA) Physical Specifications

PHYSICAL SPECIFICATIONS

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons		Nominal Net Weight kg/km
		Installation	Long Term	
2	5.9	1500	750	26
4	6.1	1500	750	28
6	6.3	1500	750	31
8	6.7	1500	750	34
12	7.3	1500	750	40
16	7.6	1500	750	45
24	8.4	1500	750	55
48	15	4200	1400	260
72	20	5400	1800	420

Fibre Count	Maximum Crush Resistance (N/mm)	Operation Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C	Minimum Bend Radius	
					Installation	Long Term
2-24	5	-20 to 70 (-4 to 158)	-20 to 70 (-4 to 158)	-40 to 70 (-40 to 70)	20 x DIA.	10 x DIA.
48-72	30	-40 to 70 (-40 to 158)	-40 to 70 (-40 to 158)	-40 to 70 (-40 to 70)	20 x DIA.	10 x DIA.

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

XGLO® & LightSystem® Indoor/Outdoor LooseTube - EMEA

Siemon LSOH (IEC 60332-1) indoor/outdoor loose tube cables are ideal for campus and building backbones. Siemon fibre optic cables are offered in XGLO and LightSystem configurations supporting high-speed, applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fibre Channel. Siemon indoor/outdoor water blocking is primarily for dry duct applications for moisture and temporary water migration protection.

Ordering Information:

9GG(X)L(XXXX)-(XXXX)M . . . . . .LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3, 50/125 OM4, Singlemode

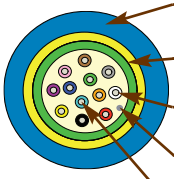
Fibre Type
- **6** = 62.5/125µm
- **5** = 50/125µm
- **8** = OS1/OS2 Singlemode

Length
- **M** = Metres

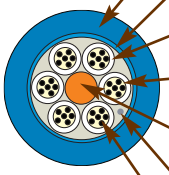
Cable Rating
- **L** = LSOH - 1

Class Performance
- **G106** = OM1 62.5/125µm, Blue
- **T306** = OM3 50/125µm Laser Optimised, Blue
- **T506** = OM4 50/125um Laser Optimised, Blue
- **T516** = OM4 50/125um Laser Optimised, Erika Violet
- **E206** = OS1/OS2 Singlemode, Blue

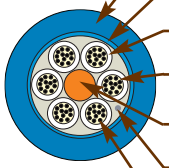
Fibre Count (Subunit)
- **002B** = 2 (1 Tube with 2 Fibres)
- **004C** = 4 (1 Tube with 4 Fibres)
- **006D** = 6 (1 Tube with 6 Fibres)
- **008E** = 8 (1 Tube with 8 Fibres)
- **012G** = 12 (1 Tube with 12 Fibres)
- **016D** = 16 (2 Tubes with 6 Fibres, 1Tube with 4 Fibres)
- **024D** = 24 (4 Tubes with 6 Fibres)
- **036G** = 36 (6 Tubes with 6 Fibres)
- **048G** = 48 (4 Tubes with 12 Fibres)
- **072G** = 72 (6 Tubes with 12 Fibres)
- **096G** = 96 (8 Tubes with 12 Fibres)
- **144G** = 144 (12 Tubes with 12 Fibres)



2 - 12 Strands



16 - 36 Strands



48 - 144 Strands

Note: The 2-12 strand rodent resistant cables feature a glass yarn design with a high tensile strength and degree of rodent protection which is effective in many cases. The function of glass yarns differs from the other rodent protection materials such as a 100% metallic armour protection. The glass yarns provide a degree of protection because it is disagreeable and unpleasant for most rodents to gnaw the glass yarns.

LIGHTSYSTEM Multimode, 62.5/125, OM1

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAA
- Telcordia GR-409-CORE
- IEC 60332-1-2 (Single strand)
  IEC 60754-1-2 (Non Halogens)
  IEC 60754-2 (Acid gas)
  IEC 61034-2 (Smoke density)
- EN 60332-1-2 Class Eca

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10 GBASE-S (850 nm)	N/A
62.5/125µm	26
1000 BASE-S (850 nm)	N/A
62.5/125µm	275
1000BASE-LX (1300 nm)	550
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 300 Multimode, 50/125, OM3

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- IEC 60793-2-10 Fibre Type Ala.2
- Telcordia GR-409-CORE
- IEC 60332-1-2 (Single strand)
  IEC 60754-1-2 (Non Halogens)
  IEC 60754-2 (Acid gas)
  IEC 61034-2 (Smoke density)
- EN 60332-1-2 Class Eca

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10 GBASE-S (850 nm)	300
10 GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1000
1000 BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode, 50/125, OM4

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 2 OM4
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fibre Type A1a.3
- Telcordia GR-409-CORE
- IEC 60332-1-2 (Single strand)
  IEC 60754-1-2 (Non Halogens)
  IEC 60754-2 (Acid gas)
  IEC 61034-2 (Smoke density)
- EN 60332-1-2 Class Eca

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Singlemode, OS1/OS2

STANDARDS COMPLIANCE
- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 CAAB
- Telcordia GR-409-CORE
- ITU-T G.652 C/D
- IEC 60332-1-2 (Single strand)
  IEC 60754-1-2 (Non Halogens)
  IEC 60754-2 (Acid gas)
  IEC 61034-2 (Smoke density)
- EN 60332-1-2 Class Eca

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® & LightSystem® Indoor/Outdoor LooseTube - EMEA

LightSystem Gigabit Ethernet Fibre Optic Cable

Minimum Performance Parametres for LightSystem 62.5/125µm Multimode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz•km)	Guaranteed Gigabit Transmission Distance Metres (Feet)
62.5/125 (OM1)	850	3.5	200	275 (902)
	1300	1.0	500	550 (1804)

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

Minimum Performance Parametres for XGLO 50/125µm Multimode Fibre

Fibre Type	Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz•km)		Maximum Attenuation (dB/km)	
	850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm
50/125 (OM3)	1000	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.0	1.0
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fibre

Fibre Type	Wavelength (nm)	Maximum Attenuation (dB/km)
Singlemode (OS1/OS2)	1310	0.40
	1550	0.30

XGLO and LightSystem Indoor/Outdoor LooseTube (EMEA) Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons		Nominal Net Weight kg/km
		Installation	Long Term	
2	7.5	1500	700	55
4	7.5	1500	700	55
6	7.5	1500	700	55
8	7.5	1500	700	55
12	7.5	1500	700	55
16	10.5	1800	1200	90
24	10.5	1800	1200	90
36	10.5	1800	1200	90
48	10.5	1800	1200	90
72	10.5	1800	1200	90
96	12.0	1800	1200	125
144	15.0	1800	1200	190

Fibre Count	Maximum Crush Resistance (N/mm)	Operation Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C (°F)	Minimum Bend Radius	
					Installation	Long Term
2-12	20	-20 to 70 (-4 to 158)	-20 to 70 (-14 to 158)	-40 to 70 (-40 to 158)	20 x DIA.	10 x DIA.
16-144	30	-20 to 70 (-4 to 158)	-20 to 70 (-4 to 158)	-40 to 70 (-40 to 158)	20 x DIA.	10 x DIA.

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

XGLO® & LightSystem® Indoor/Outdoor Tight Buffer - International

Siemon LSOH (IEC 60332-3) indoor/outdoor tight buffer fibre cables are ideal for data centres, campus and building backbones. Siemon fibre optic cables are offered in XGLO and LightSystem configurations supporting high-speed applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fibre Channel. Siemon indoor/outdoor water blocking is primarily for dry duct applications for moisture and temporary water migration protection.

Ordering Information:

9GD(X)H(XXXX)-(XXXX)M . . . . . LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3 and OM4, Singlemode 0S1/OS2

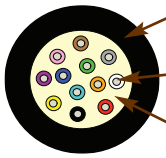
Fibre Type
- **6** = 62.5/125µm
- **5** = 50/125µm
- **8** = OS1/OS2 Singlemode

Length
- **M** = Metres

Cable Rating
- **R** = OFCR
- **P** = OFCP

Class Performance
- **G101** = OM1 62.5/125µm, Orange
- **T301** = OM3 50/125µm Laser Optimised, Aqua
- **T501** = OM4 50/125um Laser Optimised, Aqua
- **E201** = OS1/OS2 Singlemode, Yellow

Fibre Count (Subunit)
- **004C** = 4 (1 Tube with 4 Fibres)
- **006D** = 6 (1 Tube with 6 Fibres)
- **008E** = 8 (1 Tube with 8 Fibres)
- **012G** = 12 (1 Tube with 12 Fibres)
- **016K** = 16 (1 Tube with 16 Fibres)
- **024L** = 24 (1 Tube with 24 Fibres)
- **048G** = 48 (4 Tubes with 12 Fibres)
- **072G** = 72 (6 Tubes with 12 Fibres)

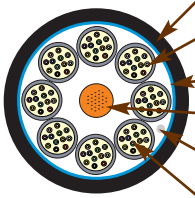


Jacket (Black)
- Material: LSOH - LSOH Compound

Identification
- Colour-coded fibres

Aramid Yarn
- Water blocking swellable yarn

4 - 24 Strands



Jacket (Black)
- Material: LSOH - LSOH Compound

Aramid Yarn
- Water blocking swellable yarn

Water Blocking Swellable Tape

Central Strength Member
- Light-weight solid dielectric

Rip Cord
- Applied longitudinally under cable jacket

Identification
- Colour-coded fibres and tubes

48 - 72 Strands

LIGHTSYSTEM Multimode 62.5/125, OM1

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAA
- Telcordia GR-409-CORE
- IEC 60332-3
  - IEC 60332-1-2 (Single strand)
  - IEC 60754-2 (Acid gas)
  - IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	N/A
62.5/125µm	26
1000BASE-S (850 nm)	N/A
62.5/125µm	275
1000BASE-LX (1300 nm)	550
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 300 Multimode 50/125, OM3

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- IEC 60793-2-10 Fibre Type Ala.2
- Telcordia GR-409-CORE
- IEC 60332-3
  - IEC 60332-1-2 (Single strand)
  - IEC 60754-2 (Acid gas)
  - IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1000
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode 50/125, OM4

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 2 OM4
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fibre Type A1a.3
- Telcordia GR-409-CORE
- IEC 60332-3
  - IEC 60332-1-2 (Single strand)
  - IEC 60754-2 (Acid gas)
  - IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Singlemode, OS1/OS2

STANDARDS COMPLIANCE
- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 CAAB
- Telcordia GR-409-CORE
- ITU-T G.652 C/D
- LSOH IEC 60332-3
  - IEC 60332-1-2 (Single strand)
  - IEC 60754-2 (Acid gas)
  - IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® & LightSystem® Indoor/Outdoor Tight Buffer - International

LightSystem Gigabit Ethernet Fibre Optic Cable

Minimum Performance Parametres for LightSystem 62.5/125µm Multimode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz•km)	Guaranteed Gigabit Transmission Distance Metres (Feet)
62.5/125 (OM1)	850	3.5	200	275 (902)
	1300	1.0	500	550 (1804)

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

Minimum Performance Parametres for XGLO 50/125µm Multimode Fibre

Fibre Type	Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz•km)		Maximum Attenuation (dB/km)	
	850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm
50/125 (OM3)	1000	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.0	1.0
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fibre

Fibre Type	Wavelength (nm)	Maximum Attenuation (dB/km)
Singlemode (OS1/OS2)	1310	0.40
	1550	0.30

XGLO and LightSystem Indoor/Outdoor Tight Buffer (International) Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons		Nominal Net Weight kg/km
		Installation	Long Term	
4	5.3	1500	495	24
6	5.3	1500	495	26
8	5.8	1500	495	31
12	6.6	1500	495	37
16	7.8	1500	396	52
24	8.8	1500	495	62
48	18.3	4200	1400	255
72	21.9	5400	1800	384

Fibre Count	Maximum Crush Resistance (N/mm)	Operation Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C	Minimum Bend Radius	
					Installation	Long Term
4-12	5	-40 to 70 (-40 to 158)	-10 to 60 (-14 to 140)	-40 to 70 (-40 to 158)	20 x DIA.	10 x DIA.
16-72	10	-20 to 70 (-4 to 158)	-10 to 60 (-14 to 140)	-20 to 70 (-4 to 158)	20 x DIA.	10 x DIA.

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

XGLO® & LightSystem® Indoor/Outdoor LooseTube - International

Siemon LSOH (IEC 60332-3) indoor/outdoor loose tube fibre cables are ideal for campus and building backbones. Siemon fibre optic cables are offered in XGLO and LightSystem configurations supporting high-speed, applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fibre Channel.

Ordering Information:

9GG(X)H(XXXX)-(XXXX)M . . . . . LightSystem Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3 and OM4, Singlemode 0S1/OS2

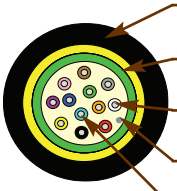
Fibre Type
- **6** = 62.5/125µm
- **5** = 50/125µm
- **8** = OS1/OS2 Singlemode

Length
- **M** = Metres

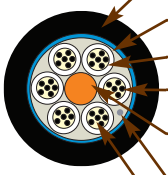
Cable Rating
- **H** = LSOH - 3C

Class Performance
- **G101** = OM1 62.5/125µm
- **T301** = OM3 50/125µm Laser Optimised
- **T501** = OM4 50/125um Laser Optimised
- **E201** = OS1/OS2 Singlemode

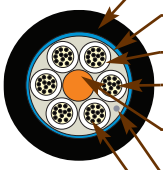
Fibre Count (Subunit)
- **002B** = 2 (1 Tube with 2 Fibres)
- **004C** = 4 (1 Tube with 4 Fibres)
- **006D** = 6 (1 Tube with 6 Fibres)
- **008E** = 8 (1 Tube with 8 Fibres)
- **012G** = 12 (1 Tube with 12 Fibres)
- **016D** = 16 (2 Tubes with 6 Fibres and 1 Tube of 4 Fibres)
- **024D** = 24 (4 Tubes with 6 Fibres)
- **036G** = 36 (6 Tubes with 6 Fibres)
- **048G** = 48 (4 Tubes with 12 Fibres)
- **072G** = 72 (6 Tubes with 12 Fibres)
- **096G** = 96 (8 Tubes with 12 Fibres)
- **144G** = 144 (12 Tubes with 12 Fibres)



2 - 12 Strands



16 - 36 Strands



48 - 144 Strands

Note: The 2-12 strand rodent resistant cables feature a glass yarn design with a high tensile strength and degree of rodent protection which is effective in many cases. The function of glass yarns differs from the other rodent protection materials such as a 100% metallic armour protection. The glass yarns provide a degree of protection because it is disagreeable and unpleasant for most rodents to gnaw the glass yarns.

LIGHTSYSTEM Multimode 62.5/125, OM1

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM1 (62.5/125)
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAB
- Telcordia GR-409-CORE
- IEC 60332-3
  - IEC 60332-1-2 (Single strand)
  - IEC 60754-2 (Acid gas)
  - IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	N/A
62.5/125µm	26
1000BASE-S (850 nm)	N/A
62.5/125µm	275
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 300 Multimode 50/125, OM3

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- Telcordia GR-409-CORE
- IEC 60332-3
  - IEC 60332-1-2 (Single strand)
  - IEC 60754-2 (Acid gas)
  - IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1000
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode 50/125, OM4

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- ISO/IEC 11801:2002 Ammendment 2 OM4
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fibre Type A1a.3
- Telcordia GR-409-CORE
- IEC 60332-3
  - IEC 60332-1-2 (Single strand)
  - IEC 60754-2 (Acid gas)
  - IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Singlemode, OS1/OS2

STANDARDS COMPLIANCE
- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- Telcordia GR-409-CORE
- ITU-T G.652 C/D
- IEC 60332-3
  - IEC 60332-1-2 (Single strand)
  - IEC 60754-2 (Acid gas)
  - IEC 61034-2 (Smoke density)

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® & LightSystem® Indoor/Outdoor LooseTube - International

LightSystem Gigabit Ethernet Fibre Optic Cable

Minimum Performance Parametres for LightSystem 62.5/125µm Multimode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz•km)	Guaranteed Gigabit Transmission Distance Metres (Feet)	Index of Refraction
62.5/125 (OM1)	850	3.5	200	275 (902)	1.495
	1300	1.0	500	550 (1804)	1.490

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

Minimum Performance Parametres for XGLO 50/125µm Multimode Fibre

Fibre Type	Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz•km)		Maximum Attenuation (dB/km)		Group Index of Refraction	
	850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm
50/125 (OM3)	1000	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.0	1.0	1.483	1.479
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0	1.483	1.479

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fibre

Fibre Type	Wavelength (nm)	Maximum Attenuation (dB/km)	Zero Dispersion Wavelength (nm)	Zero Dispersion Slope (nm_2-km)	Index of Refraction
Singlemode (OS1/OS2)	1310	0.40	1312 ± 10	≤0.089	1.468
	1550	0.30	1312 ± 10	≤0.089	1.468
	1310 - 1625	<0.40	1312 ± 10	≤0.089	1.468

XGLO and LightSystem Indoor/Outdoor LooseTube Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fibre Count	Nominal Cable Diameter mm	Maximum Pulling Tension Newtons		Nominal Net Weight kg/k
		Installation	Long Term	
2	7.7	1000	500	67
4	7.7	1000	500	67
6	7.7	1000	500	67
8	7.7	1000	500	67
12	7.7	1000	500	67
16	10.1	1800	1200	103
24	10.1	1800	1200	103
36	10.1	1800	1200	103
48	10.8	1800	1200	115
72	10.8	1800	1200	115
96	12.0	1800	1200	139
144	12.0	1800	1200	139

Fibre Count	Maximum Crush Resistance (N/mm)	Operating Temperature °C	Storage Temperature °C	Minimum Bend Radius	
				Installation	Long Term
2-12	10	-40 to 60 (-40 to 140)	-40 to 60 (-40 to 140)	20 x DIA.	10 x DIA.
16-144	22	-40 to 60 (-40 to 140)	-40 to 60 (-40 to 140)	20 x DIA.	10 x DIA.

Custom lengths and jacket colours are available upon request. Contact our Customer Service Department for more information.

XGLO® & LightSystem® Outside Plant Loose Tube - International

Siemon outside plant (OSP) cables are ideal for campus, building-to-building interconnections, lashed aerial, duct or underground conduits and direct burial with proper sand back filling. These cables are designed to tolerate the installation and stresses in cables exposed to the external environment. Siemon fibre optic cables are offered in XGLO and LightSystem configurations supporting high-speed, applications such as Gigabit Ethernet, 10 Gigabit Ethernet and Fibre Channel.

Ordering Information:

9F(XX)(X)4-(XXXX)(XXXX) . . . . . LightSystem: Multimode 62.5/125 OM1, XGLO Multimode 50/125 OM3 and OM4 , Singlemode OS1/OS2

Fibre Type
- **6 =** OM1 62.5/125µm
- **5L =** OM3 50/125µm Laser Optimised
- **5V =** OM4 50/125µm Laser Optimised
- **8L =** OS1/OS2 Singlemode

Armour
- **D =** Non Armour
- **E =** Armour

Cable Rating
- **4 =** MDPE

Fibre Count (Subunit)
- **002F =** 2 (1 Tube with 2 Fibres)
- **004A =** 4 (1 Tube with 4 Fibres)
- **006B =** 6 (1 Tube with 6 Fibres)
- **008C =** 8 (1 Tube with 8 Fibres)
- **012D =** 12 (1 Tube with 12 Fibres)
- **016A =** 16 (2 Tubes with 6 Fibres and 1 Tube of 4 Fibres)
- **024B =** 24 (4 Tubes with 6 Fibres)
- **036D =** 36 (6 Tubes with 6 Fibres)
- **048D =** 48 (4 Tubes with 12 Fibres)
- **072D =** 72 (6 Tubes with 12 Fibres)
- **096D =** 96 (8 Tubes with 12 Fibres)
- **144D =** 144 (12 Tubes with 12 Fibres)

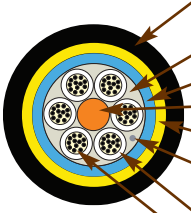
Length

Length must be 4 digits including decimal point

Example:
- **1.00 =** 1km
- **0.50 =** 500m

CONSTRUCTION/FEATURES

- Outer jacket is a UV resistant black MDPE (Medium Density Polyethylene)
- Water blocking, gel-filled loose tubes ·
- Non-Armour and Armour versions
- Armour version utilisesa robust corrugated steel armour
- No central strength member for 2-12 strands
- Central strength member for 16-144 strands



Non-Armour

Jacket (Black)
- Material: MDPE - Medium DensityPolyethylene

Cablecore Gel

Polyester Tap

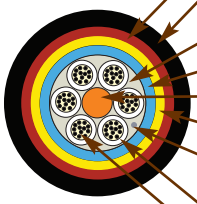
FRP Stength Member

Aramid Yarn

Rip Cord
- Applied longitudinally under cable jacket

Gel Filled Buffer Tubes

Colour Coded Fibre and Tubes



Armour

Corrugated Steel Tape

Jacket (Black)
- Material: MDPE - Medium DensityPolyethylene

Cablecore Gel

Polyester Tap

FRP Stength Member

Aramid Yarn

Rip Cord
- Applied longitudinally under cable jacket

Gel Filled Buffer Tubes

Colour-Coded Fibre and Tubes

These cables provide a degree of rodent protection effective in many cases. The non-armour cable has a PE sheath which has a hard surface and provides a degree of rodent protection because it is disagreeable and unpleasant for most rodents to gnaw on. The armour cable has a PE sheath and corrugated steel tape which provides 100% rodent protection.

LIGHTSYSTEM Multimode 62.5/125, OM1

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM1 (62.5/125)
- IEC 60794-3-10
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAA
- Telcordia GR-20-CORE

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	N/A
62.5/125µm	26
1000BASE-S (850 nm)	N/A
62.5/125µm	275
1000BASE-LX (1300 nm)	550
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDDI (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 300 Multimode 50/125, OM3

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 OM3
- IEC 60794-3-10
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAC
- IEC 60793-2-10 Fibre Type Ala.2
- Telcordia GR-20-CORE

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	300
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1000
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO 550 Multimode 50/125, OM4

STANDARDS COMPLIANCE
- ISO/IEC 11801:2002 Ammendment 2 OM4
- IEC 60794-3-10
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA-492 AAAD
- IEC 60793-2-10 Fibre Type A1a.3
- Telcordia GR-20-CORE

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-S (850 nm)	550
10GBASE-LX4 (1300 nm)	300
1000BASE-S (850 nm)	1100
1000BASE-LX (1300 nm)	600
Fibre Channel 266 (1300 nm)	1,500
ATM 622 (1300 nm)	500
ATM 155 (1300 nm)	2,000
ATM 52 (1300 nm)	3,000
FDD1 (Original-1300 nm)	2,000
100BASE-FX (1300 nm)	2,000

XGLO Singlemode, OS1/OS2

STANDARDS COMPLIANCE
- ISO/IEC 11801:Ed 2.0 Amendment:1:2008
- IEC 60794-3-10
- ANSI/TIA-568.3-D
- ANSI/TIA-598-D
- ANSI/TIA–492 CAAB
- Telcordia GR-20-CORE
- ITU-T G.652 C/D

APPLICATIONS SUPPORT

APPLICATION	DISTANCE (m)
10GBASE-L (1310 nm)	8,000
10GBASE-E (1550 nm)	30,000
10G Fibre Channel (Serial-1310 nm)	10,000
10G Fibre Channel (WDM-1310 nm)	10,000
1000BASE-LX (1300 nm)	5,000
Fibre Channel 266/1062 (1300 nm)	10,000
ATM 52/155/622 (1300 nm)	15,000

XGLO® & LightSystem® Outside Plant Loose Tube - International

LightSystem Gigabit Ethernet Fibre Optic Cable

Minimum Performance Parametres for LightSystem 62.5/125µm Multimode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)	Minimum Modal Bandwidth (MHz • km)	Guaranteed Gigabit Transmission Distance Metres (Feet)
62.5/125 (0M1)	850	3.5	200	275 (902)
	1300	1.0	500	550 (1804)

**The protocol pertinent to the transmission distance as noted is Gigabit Ethernet per IEEE 802.3:2005.*

Minimum Performance Parametres for XGLO 50/125µm Multimode Fibre

Fibre Type	Guaranteed Gigabit Transmission Distance (m)		Guaranteed 10 Gigabit Transmission Distance (m)		Minimum Bandwidth (MHz •km)		Maximum Attenuation (dB/km)	
	850 nm	1300 nm	850 nm†	1300 nm††	850 nm	1300 nm	850 nm	1300 nm
50/125 (OM3)	1000	600	300	300	RML - 2000 OFL - 1500	OFL - 500	3.0	1.0
50/125 (OM4)	1100	600	550	300	RML - 4700 OFL - 3500	OFL - 500	3.0	1.0

† 10GBASE-S †† 10GBASE-LX4

Minimum Performance Parametres for XGLO Singlemode Fibre

Fibre Type	Wavelength nm	Maximum Attenuation (dB/km)
Singlemode (0S1/0S2)	1310	0.40
	1550	0.30

XGLO and LightSystem Outside Plant-Loose Tube Physical Specifications

PHYSICAL SPECIFICATIONS (All Values Are Nominal)

Fibre Count	Nominal Cable Diameter mm		Maximum Pulling Tension Newtons				Net Weight kg/km	
			Installation		Long Term			
	Non Armour	Armour	Non Armour	Armour	Non Armour	Armour	Non Armour	Armour
2	8.5	10.7	1500	2700	450	810	55	109
4	8.5	10.7	1500	2700	450	810	55	109
6	8.5	10.7	1500	2700	450	810	55	109
8	8.5	10.7	1500	2700	450	810	55	109
12	8.5	10.7	1500	2700	450	810	55	109
16	11.0	10.8	1500	2700	450	810	99	118
24	11.0	11.4	1500	2700	450	810	97	131
36	11.2	11.4	1500	2700	450	810	100	152
48	11.2	12.3	1500	2700	450	810	100	151
72	11.2	12.3	1500	2700	450	810	100	151
96	12.7	13.8	1500	2700	450	810	126	186
144	15.7	16.8	1500	2700	450	810	189	263

Fibre Type	Maximum Crush Resistance (KN)		Operation Temperature °C (°F)	Installation Temperature °C (°F)	Storage Temperature °C (°F)	Minimum Bend Radius	
	Non Armour	Armour				Installation	Long Term
2 - 144	short term: 1.5 long term: 0.75	short term: 2.2 long term: 1.1	-30 to 60 (-22 to 140)	-10 to 60 (-14 to 140)	-40 to 60 (-40 to 140)	10 x DIA.	20 x DIA.

Custom lengths are available upon request. Contact our Customer Service Department for more information.