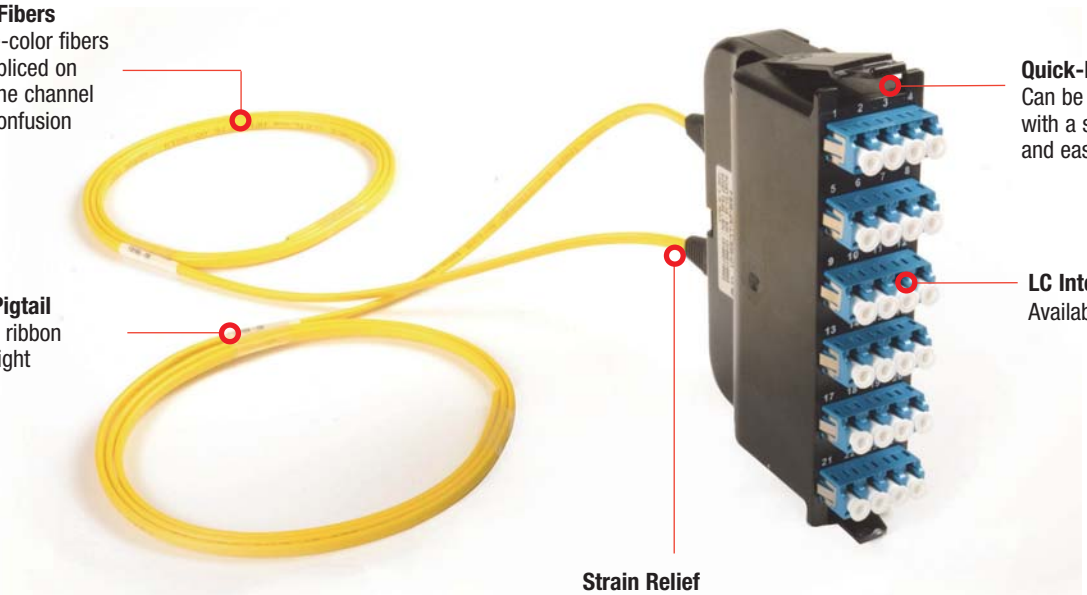
Mass Fusion Splice Solutions

FIBER 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 fiber cable. The splice modules are designed using Siemon's Quick-Pack® footprint and work in conjunction with Siemon's Expanded RIC or FCP3 fiber enclosures.

Color Coded Fibers
Allows for like-color fibers to be fusion spliced on each side of the channel to eliminate confusion

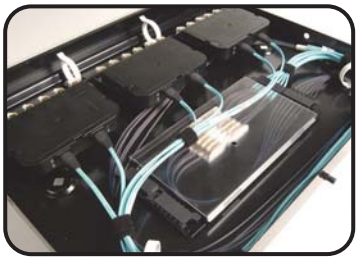
Jacketed Pigtail
Available in ribbon or 900um tight buffer fiber

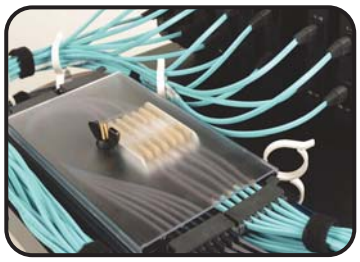


Quick-Pack® Splice Modules
Can be inserted or removed with a single finger for quick and easy access

LC Interface
Available in 12 or 24 fibers

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 fiber exiting the modules





EXPANDED RIC FIBER ENCLOSURES
The fiber splice modules can be used in Siemon's Expanded RIC or FCP3 fiber enclosures.

LC Fiber Port Position		
Pigtail Color	**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

Fiber Splice Module Performance			
Fiber 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

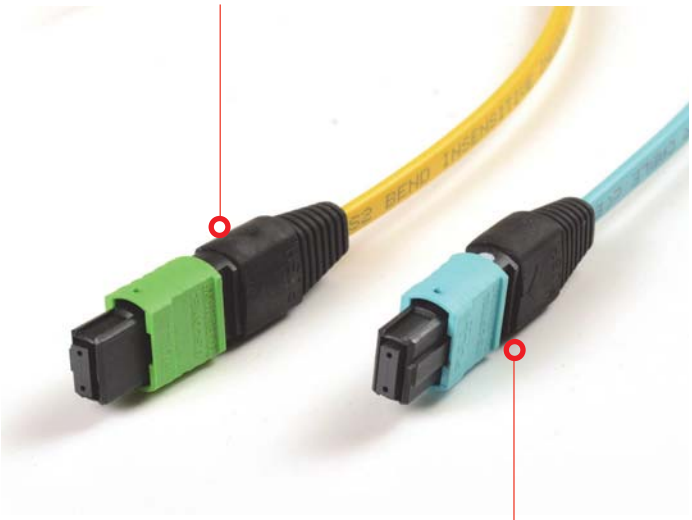
** Opposing splice module types must be used on opposite ends*
(example: "A" side & "B" side) of the same fiber link to maintain proper polarity from transmitter to receiver

Mass Fusion Splice Solutions

MTP PIGTAILS

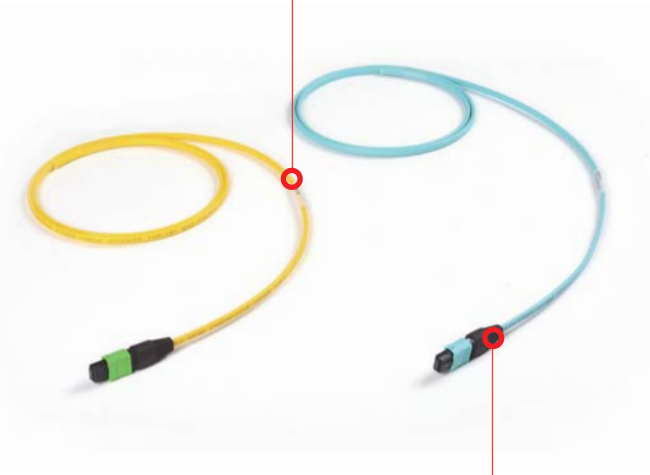
Siemon's fusion splice solutions also include an MTP pigtail option which can be connected to a RIC MTP adapter plate or plug and play module and then mass fusion spliced within the fiber enclosures. MTP pigtails are the ideal solution when field-installing an MTP interface for a 40/100G application.

MTP Connector Gender
Options for both male or female

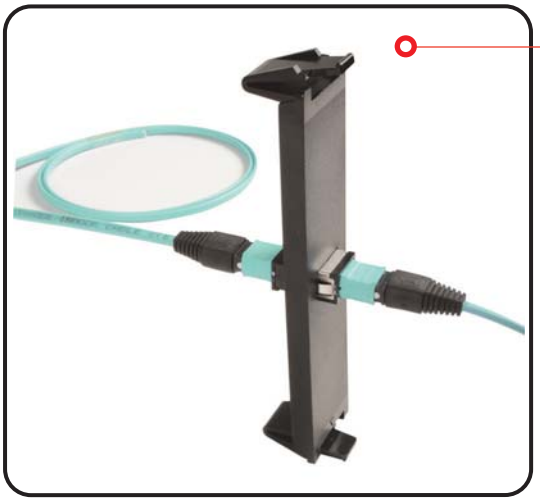


Performance
All MTP pigtails are manufactured to Low Loss specifications

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



Jacketed Pigtail
Available in ribbon fiber, OM3, OM4 and Singlemode



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

MTP PIGTAIL OPTICAL SPECIFICATIONS

Fiber Type	Perfomance Class	Max. Inserion Loss	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

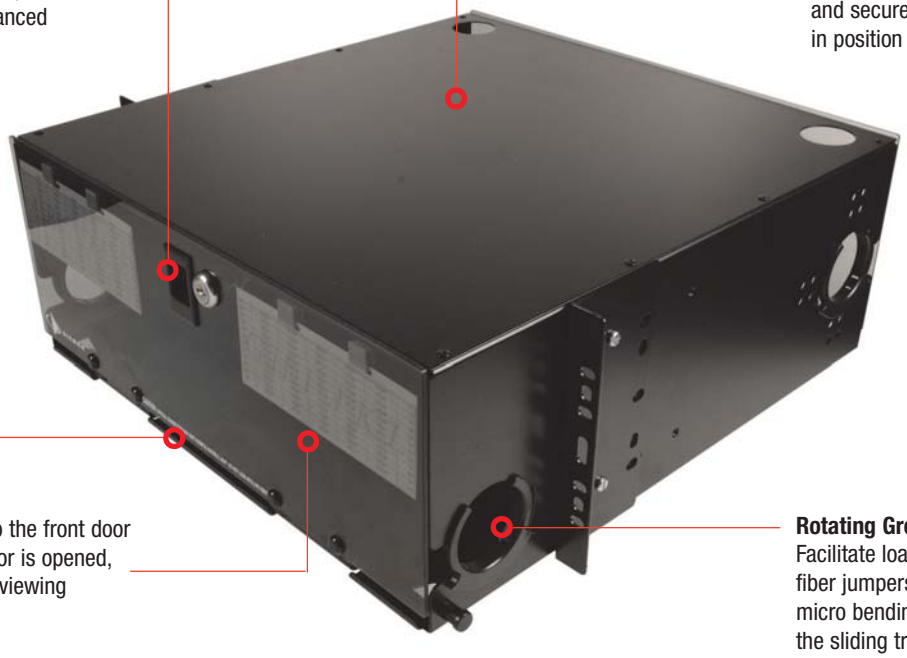
Mass Fusion Splice Solutions

Expanded RIC Enclosure

Siemon's Rack Mount Interconnect Center provides superior fiber 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, fiber accessibility and security, the Expanded RIC is the best way to protect mission critical fiber connections.

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

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



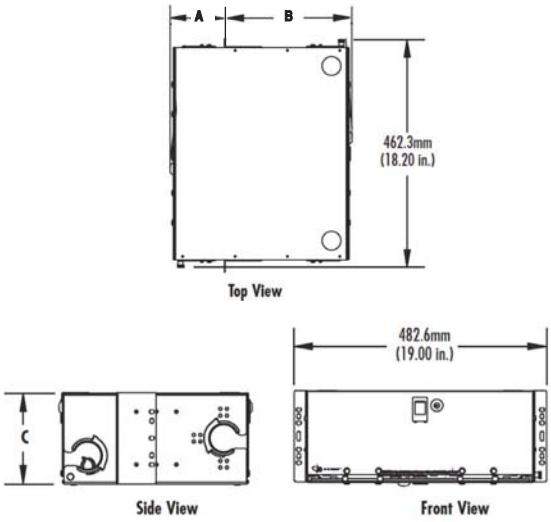
Quick Release Hinges
Spring loaded hinges enable easy removal of front and rear doors for complete access to fiber connections

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 fiber jumpers while minimizing 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	4.32	360.4	14.19	85.7	3.38
	2	147.8	5.82	322.3	12.69	85.7	3.38
	3	185.9	7.32	284.2	11.19	85.7	3.38
RIC3-E-36-01	1	109.7	4.32	360.4	14.19	85.7	3.38
	2	147.8	5.82	322.3	12.69	85.7	3.38
	3	185.9	7.32	284.2	11.19	85.7	3.38
RIC3-E-48-01	1	109.7	4.32	360.4	14.19	130.2	5.13
	2	147.8	5.82	322.3	12.69	130.2	5.13
	3	185.9	7.32	284.2	11.19	130.2	5.13
RIC3-E-72-01	1	109.7	4.32	360.4	14.19	174.6	6.88
	2	147.8	5.82	322.3	12.69	174.6	6.88
	3	185.9	7.32	284.2	11.19	174.6	6.88



FUSION SPLICE MAX CAPACITY CHART

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

Ordering Information

FIBER SPLICE MODULES

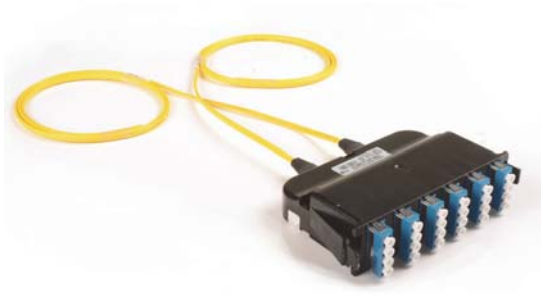
FSM(X)-(XX)-LC(XX)-01(X)

Fiber Construction
Blank = Ribbon
2 = 900µm Tight Buffer

Port
12 = 12 port
24 = 24 port

Fiber Type
6 = OM1 62.5/125 Multimode
5 = OM2 50/125 Multimode
5L = OM3 XGLO 300 50/125 Multimode
5V = OM4 XGLO 550 50/125 Multimode
SM = OS1/OS2 Singlemode

Module Type
A = A Side Polarity (Ribbon Only)
B = B Side Polarity (Ribbon Only)
Blank = 900 µm tight buffer



MTP PIGTAILS

FP12A-(XX)(XX)(X)-(XX)(X)

Cable Jacket
A = Ribbon Jacket

MTP Gender
MM = MTP Male
MF = MTP Female

Fiber Type
5L = OM3 XGLO 300 62.5/125 Multimode
5V = OM4 XGLO 550 50/125 Multimode
SM = OS1/OS2 Singlemode

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

Length Unit
F = Feet
M = Meter

Cable Jacket Rating
P = Plenum
L = LSOH

EXPANDED RIC ENCLOSURE

RIC3-E-(XX)-01 .....Expanded RIC Enclosures
Use (XX) to specify size:
24 = 2RMS Enclosure with 4 adapter/module mounting spaces
36 = 2RMS Enclosure with 6 adapter/module mounting spaces
48 = 3RMS Enclosure with 8 adapter/module mounting spaces
72 = 4RMS Enclosure with 12 adapter/module mounting spaces

RELATED PRODUCTS:

XGLO MULTIMODE LASER OPTIMIZED 50/125 OM3, OM4 (AQUA JACKET), SINGLEMODE OS2 (YELLOW JACKET) RIBBON CABLE

Part #	Fiber Count	Construction
9BR(X)(X)012G-(XXXX)(Y)	12	1 ribbon with 12 fibers
9BR(X)(X)024G-(XXXX)(Y)	24	2 ribbons with 12 fibers
9BR(X)(X)036G-(XXXX)(Y)	36	3 ribbons with 12 fibers
9BR(X)(X)048G-(XXXX)(Y)	48	4 tubes of 12 fibers

Part #	Fiber Count	Construction
9BR(X)(X)072G-(XXXX)(Y)	72	6 ribbons with 12 fibers
9BR(X)(X)096G-(XXXX)(Y)	96	8 ribbons with 12 fibers
9BR(X)(X)144G-(XXXX)(Y)	144	12 ribbons with 12 fibers
9BR(X)(X)216G-(XXXX)(Y)	216	18 ribbons with 12 fibers
9BR(X)R288G-(XXXX)(Y)	288	24 ribbons with 12 fibers

Use 1st (X) to specify fiber type: 5 = 50/125µm, 8 = Singlemode

Use 2nd (X) to specify fiber jacket type: R=Riser OFNR, P= Plenum OFNP , H= LSOH.

Use (XXXX) to specify class performance: T312 = OM3 50µm Laser Optimized,T512 = OM4 50µm Laser Optimized, E205 = OS1/OS2 Singlemode

Use (Y) to specify Unit of Measure: A= Feet for North America , M = Meter for International

NOTE: 288 strand count is only available in a Riser (OFNR) jacket.

Ordering Information

RELATED PRODUCTS:

FIBER CONNECT PANEL

Part #	Description
FCP3-DWR	6- to 72-fiber (up to 288 fiber with MTP adapter plates) Fiber Connect Panel with sliding tray, accepts (3) Quick-Pack® adapter plates, 1U, black. Includes mounting brackets, housing/tray, fiber managers, grommets, label holders, and labels *height: 43.2mm, width: 482.6mm, depth: 355.6mm*

FCP3-RACK	6- to 72-fiber (up to 288 fiber with MTP adapter plates) Fiber Connect Panel with fixed tray, accepts (3) Quick-Pack adapter plates, 1U, black. Includes mounting brackets, housing/cover, fiber managers and grommet *height: 43.2mm, width: 482.6mm, depth: 241.3mm*

Note: 1U = 44.5 mm

MASS FUSION SPLICE ACCESSORIES

Part #	Description
HT-MFS	40mm mass fusion heat shrink sleeve for ribbon fiber
TRAY-4-R-MFS	Mass fusion splice tray for up to (6) 12 fiber splices with sleeve protection holder

SINGLE FIBER FUSION SPLICE ACCESSORIES

Part #	Description
HT-40	40mm single fiber heat shrink sleeve
HT-60	60mm single fiber 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 fiber enclosures

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