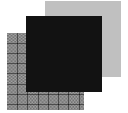


# Lynx-CustomFit® Splice-On Connector Ver. 2

## - LYNX2-MPO for Round Cord with 12 or 8 Individual Fibers -

### Installation Manual

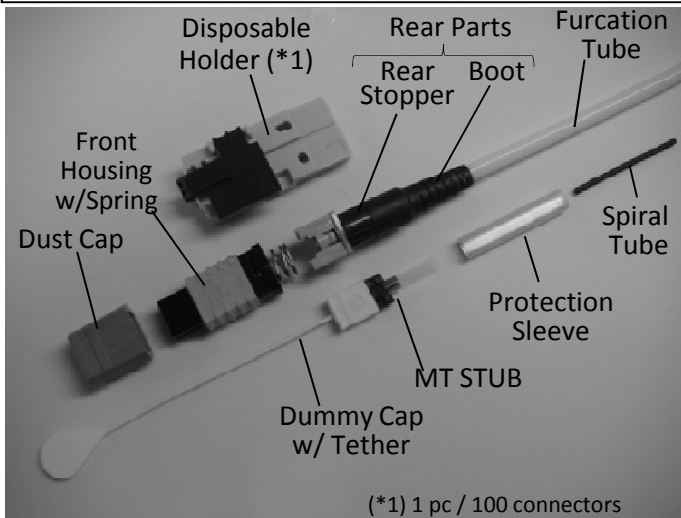


#### For your safety operation

The Lynx-CustomFit® Splice-On Connector is designed and manufactured to assure personal safety. Improper operation can result in bodily injury and serious damage to this product. Please read and observe all warnings instructions given in this operation manual.

- ⚠ **Wear safety glasses** to protect your eyes when handling optical fiber.
- ⚠ **Never look into** the end of a microscope or optical cable connected to an optical output device that is operating. Laser radiation is invisible, and direct exposure can severely injure the human eye.
- ⚠ **Alcohol is flammable**, causes irritation and is harmful if swallowed or inhaled. Keep alcohol away from heat, sparks, skin, and avoid contact with eyes.
- ⚠ In the case of the work at the high place, please be careful not to drop an assembling tool.

#### Composition



Polish Surface and Housing Color

SM Low Loss	SM Std. Loss	MM62.5 OM1	MM50 OM2	MM50 10G OM3
8 degree Polish		Flat Polish		
Yellow	Green	Beige	Black	Aqua

#### Precautions

1. Improper assembly will result in a loss of performance. Please read instructions given in this operation manual and the operation manual of the fusion splicer.
2. Never touch the fiber of the stub. It has been inspected in the factory.
3. The product is sensitive to dirt or dust. Do not take out any parts from the package until it is to be used.
4. The characteristic will be influenced by the fiber cleaved surface condition. Please use a cleaver which has a good cleaving characteristic.
5. Do not remove the dust cap until the connector has been completely assembled in order not to cause an high insertion loss due to them.

#### Assembling Tools

Below equipments and tools are required.

Fusion Splicer Type-Q101-M12 (T-71M12)	Fiber Cleaver FC-6RM etc.	Jacket Remover JR-6	Fiber Holder FHM-12 (For 12c Fiber)	Fiber Holder FHM-8 (For 8c Fiber)
				
Fiber Alignment Tool FA-03		Cord Tool LYNX2-CORDTOOL-2&3		Kevlar Cutter
				

#### Recommended Program

Splicer	Fiber	Splicing Program	Heater Program
Type-Q101-M12 (T-71M12)	SMF 12c	SM12c	Lynx MPO
	SMF 8c	SM8c	
	MMF 12c	MM12c	
	MMF 8c	MM8c	

SMF : G.652, G.657

MMF : MM50(OM2), MM50(OM3), MM50(OM4), MM62.5(OM1)

💡 Please perform Arc test prior to the splicing operation. (See the operation manual of the splicer.)

\*Ribbon fiber for testing is included in the connector kit.

💡 Please check fiber type inside the field fiber.

### (A) Set Fusion Condition

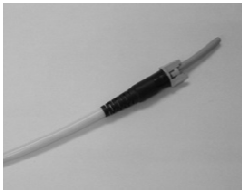
Push "power key" for more than 1 sec.  
 "Main Menu" Select Fiber Type  
 Select "Fiber Type", then "Return".  
 "Main Menu" Select Sleeve Type  
 Select Sleeve Type Then "Return"

### (B) Perform Arc Test

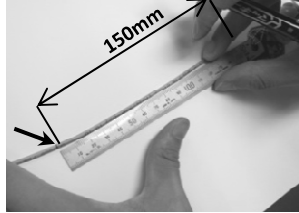
Arc Test "ON".  
 Then perform the arc test according to the instruction.  
 \*Fiber for testing is included in the kit.  
 Please check fiber type inside the field fiber.

See the operation manual of T-71M12.

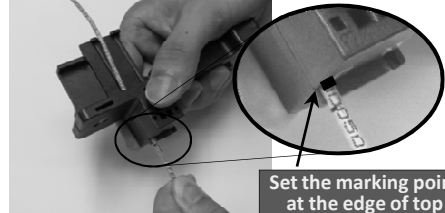
### (1) Slide Rear Parts onto the cord.



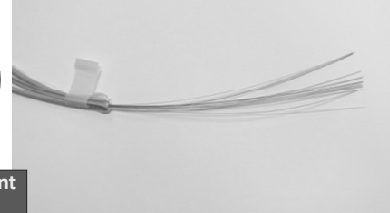
### (2) Mark at 150mm from the end of the cord.



### (3) Mark Slit by LYNX2-CORDTOOL-2&3. Set the cord on "3mm" groove.



### (4) Fold the slit outer sheath and Kevlar backward. Hold them by a mending tape.



### (5) Fiber standing in line according to Table 1.

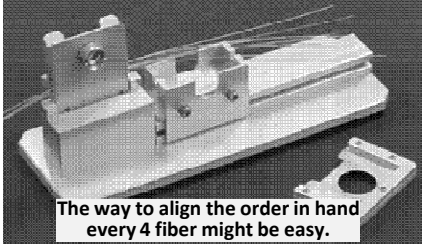
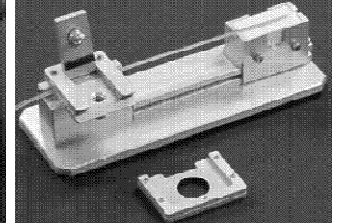
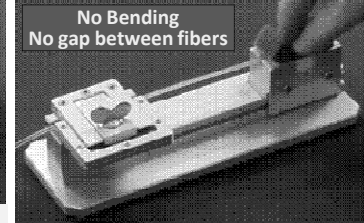
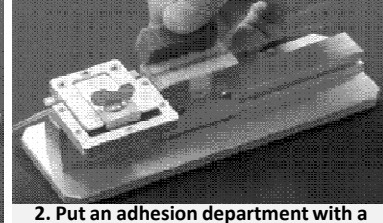
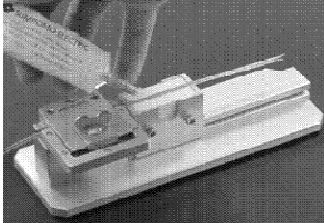


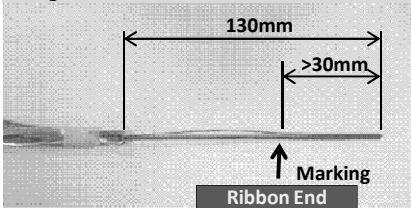
Table 1. Fiber Alignment. (See Appendix.)

		For 8c								For 12c			
		CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12
Method A	End A	BL	OR	GR	BR	SL	WH	RD	BK	YL	VI	PK	AQ
	End B	BL	OR	GR	BR	SL	WH	RD	BK	YL	VI	PK	AQ
Method B	End A	BL	OR	GR	BR	SL	WH	RD	BK	YL	VI	PK	AQ
	End B	AQ	PK	VI	YL	BK	RD	WH	SL	BR	GR	OR	BL
Method C	End A	BL	OR	GR	BR	SL	WH	RD	BK	YL	VI	PK	AQ
	End B	OR	BL	BR	GR	WH	SL	BK	RD	YL	YL	AQ	PK
Another (ex. Corning)	End A	BL	OR	GR	BR	SL	WH	RD	BK	YL	VI	PK	AQ
	End B	AQ	PK	VI	YL	BK	RD	WH	SL	BR	GR	OR	BL

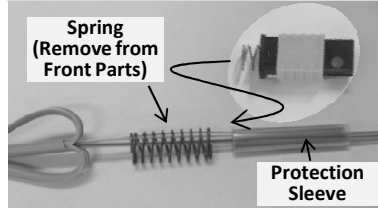
### (6) Ribbon Processing.



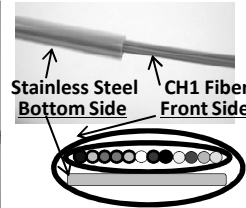
### (7) Cut the fiber to be 130mm and confirm the length of ribbonized is 30mm or more.



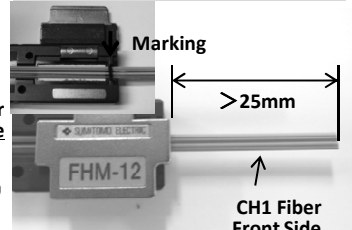
### (8) Slide Rear Parts, Spring and Protection Sleeve onto the ribbon fiber.



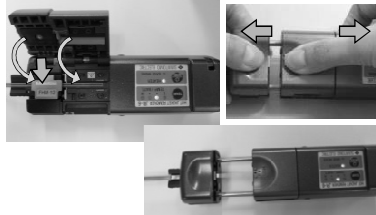
### Make sure the orientation of Sleeve



### (9) Set ribbon fiber on Fiber holder.



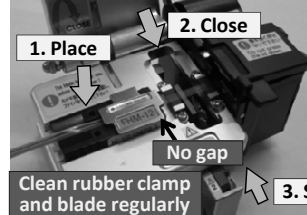
### (10) Remove Coating (JR-6)



### (11) Fiber Cleaning.



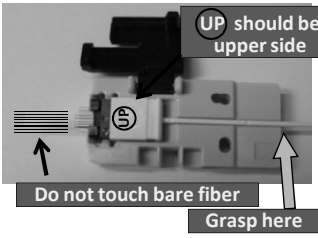
### (12) Cleave the fiber (FC-6M)



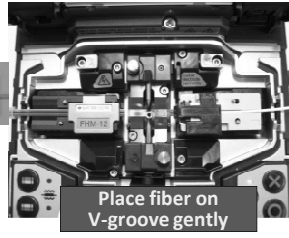
### (13) Set fiber holder on the splicer (left side).



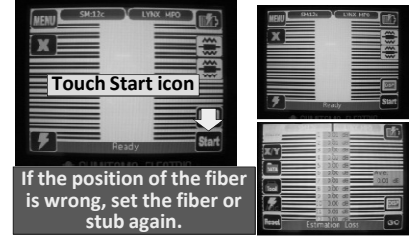
(14) Pick up MT STUB and set the stub on the plastic holder.



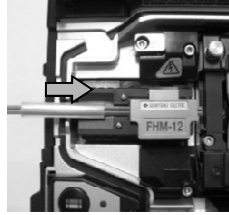
(15) Set stub holder on the splicer (right side).



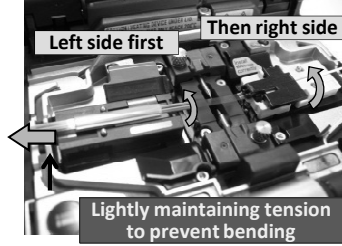
(16) Fusion Splice.



(17) Slide the sleeve to the holder.



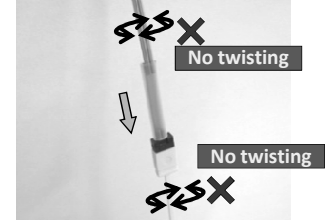
(18) Open the cover of the holder.



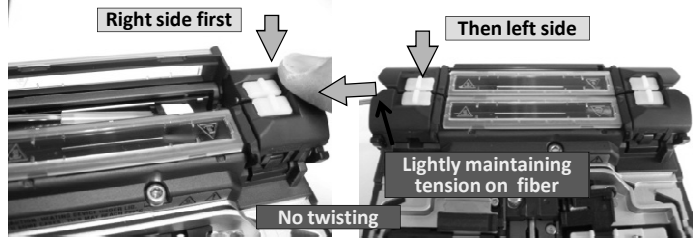
(19) Pick up the spliced fiber.



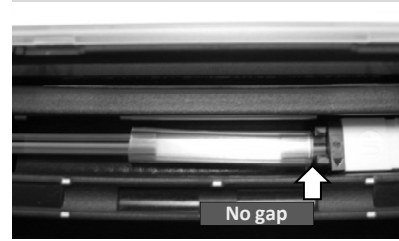
(20) Slide Protection Sleeve to MT STUB.



(21) Set Sleeve into the heater.



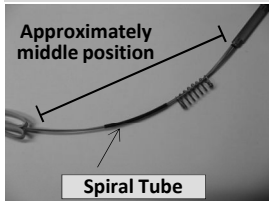
(22) Confirm the position before heating.



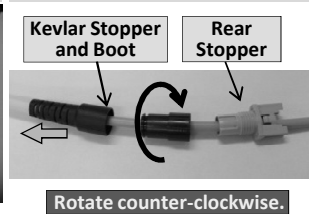
(23) Heat Protection Sleeve.



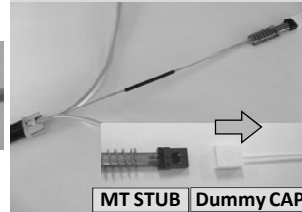
(24) Spiral & Pick up the cord.



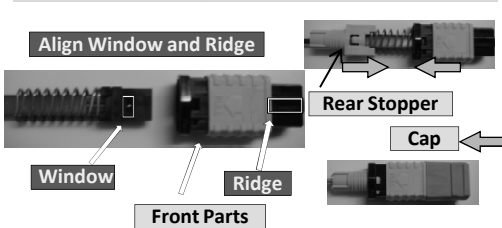
(25) Disassemble Rear Parts.



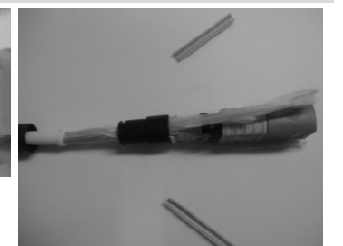
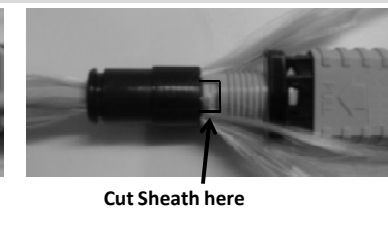
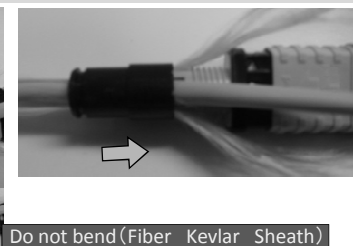
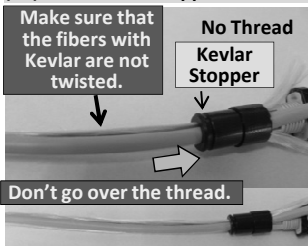
(26) Slide Rear Parts and remove Dummy Cap.



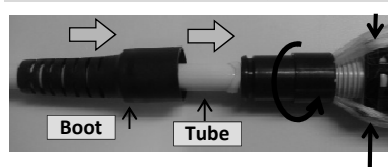
(27) Put Front Housing.



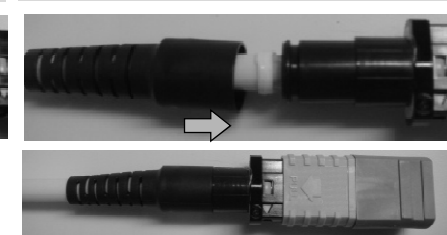
(28) Slide Kevlar Stopper. Trim the slit outer sheath.



(29) Secure Kevlar by screwing of Kevlar Stopper & Cut excess Kevlar



(30) Put Boot.

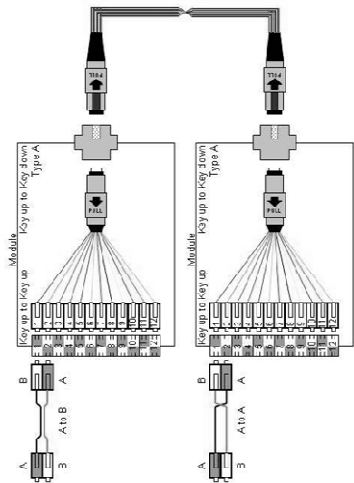


Get the parts/components closer to each other and straighten the fibers covered with the Kevlar in the Sheath

Rotate Kevlar Stopper with holding Kevlar on Housing

Complete

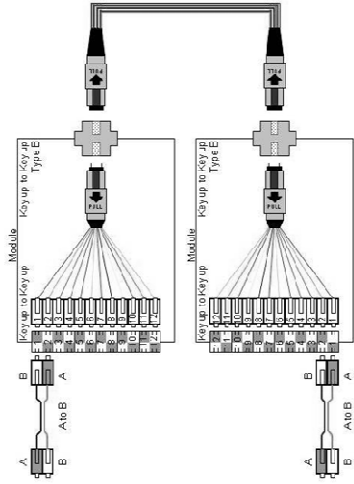
### Method A



#### Method A: Connectivity

1. Blue
  2. Orange
  3. Green
  4. Brown
  5. Slate
  6. White
  7. Red
  8. Black
  9. Yellow
  10. Violet
  11. Pink
  12. Aqua
- Key-up
- Key-down
- End A
- End B
- Type A: MPO jumper

### Method B



#### Method B: Connectivity

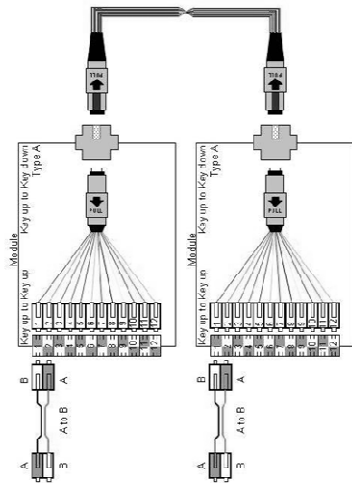
1. Blue
  2. Orange
  3. Green
  4. Brown
  5. Slate
  6. White
  7. Red
  8. Black
  9. Yellow
  10. Violet
  11. Pink
  12. Aqua
- Key-up
- Key-down
- End A
- End B
- Type B: MPO jumper



#### Instruction of fiber connection for LYNX2-MPO

Method A uses Type-A "straight-through" backbones mated to transitions using Type-A MPO adapters. (Standard) All components in the link are mated "key-up to key-down". One end of the link uses A-to-E patch cords, "straight-through" to connect to their respective duplex transceiver ports. The other end uses A-to-A patch cords (crossed or pair flipped) to connect to their respective transceiver ports.

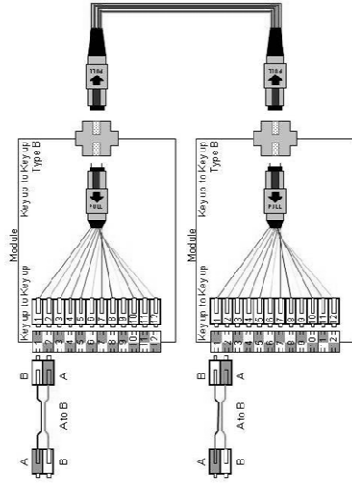
### Method C



#### Method C: Connectivity

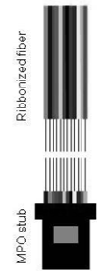
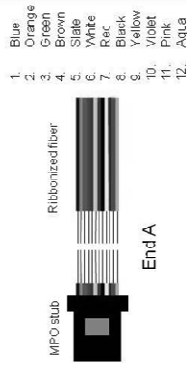
1. Orange
  2. Blue
  3. Green
  4. Brown
  5. Slate
  6. White
  7. Red
  8. Black
  9. Yellow
  10. Violet
  11. Pink
  12. Aqua
- Key-up
- Key-down
- End A
- End B
- Type C: MPO jumper

### Another (ex. Corning)



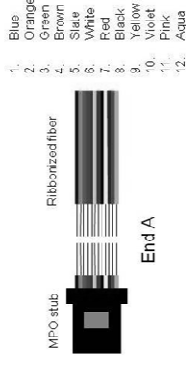
#### Another: Connectivity

1. Blue
  2. Orange
  3. Green
  4. Brown
  5. Slate
  6. White
  7. Red
  8. Black
  9. Yellow
  10. Violet
  11. Pink
  12. Aqua
- Key-up
- Key-down
- End A
- End B
- Another: MPO jumper



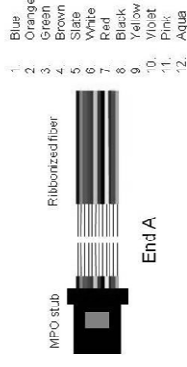
#### Instruction of fiber connection for LYNX2-MPO

Method C uses Type-C "pair-flipped" backbones mated to transitions using Type-A MPO adapters. (Standard) All components in the link are mated "key-up to key-down". Both ends of the link use A-to-E patch cords ("straight-through") to connect to their respective duplex transceiver ports.



#### Instruction of fiber connection for LYNX2-MPO

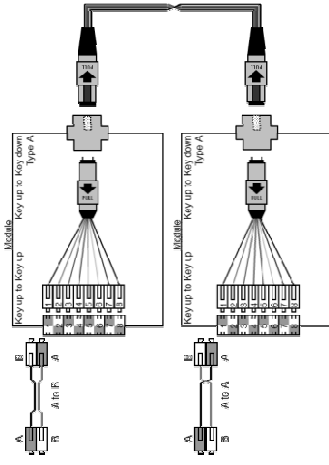
Method B uses Type-B "straight-through" backbones mated to transitions using Type-B MPO adapters. All components in the link are mated "key-up to key-up". Both ends of the link use A-to-B patch cords ("straight-through").



#### Instruction of fiber connection for LYNX2-MPO

Another type uses Type-D "straight-through" backbones mated to transitions using Type-B MPO adapters. All components in the link are mated "key-up to key-up". Both ends of the link use A-to-B patch cords ("straight-through") to connect to their respective duplex transceiver ports.

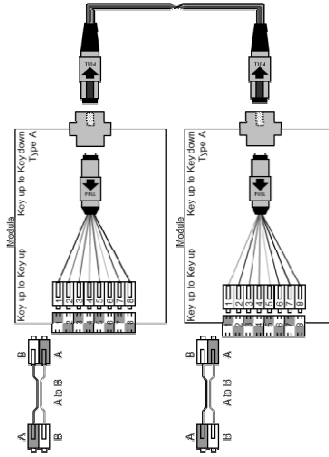
### Method A



Method A: Connectivity

1. Blue
  2. Orange
  3. Green
  4. Brown
  5. Slate
  6. White
  7. Red
  8. Black
- Key up  
Key down  
End A  
End B  
Type A: MPO Jumper

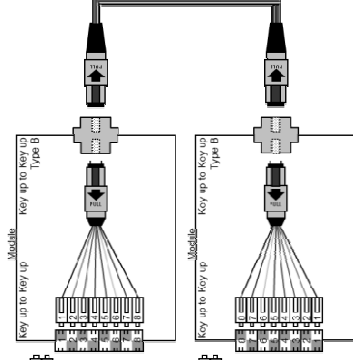
### Method C



Method C: Connectivity

1. Orange
  2. Blue
  3. Brown
  4. Green
  5. Slate
  6. White
  7. Black
  8. Red
- Key up  
Key down  
End A  
End B  
Type C: MPO Jumper

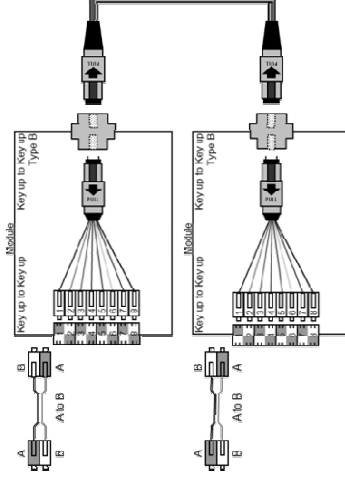
### Method B



Method B: Connectivity

1. Blue
  2. Orange
  3. Green
  4. Brown
  5. Slate
  6. White
  7. Red
  8. Black
- Key up  
Key down  
End A  
End B  
Type B: MPO Jumper

### Another (ex. Corning)



Another: Connectivity

1. Blue
  2. Orange
  3. Green
  4. Brown
  5. Slate
  6. White
  7. Red
  8. Black
- Key up  
Key down  
End A  
End B  
Another: MPO Jumper

**Instruction of fiber connection for LYNX2-MPO**

Method B uses Type-B "straight through" backbones mated to transitions using Type-B MPO adapters. All components in the link are mated key-up to key-up. Both ends of the link use A-to-B patch cords (straight through).

**Instruction of fiber connection for LYNX2-MPO**

Method C uses Type-C "backflipped" backbones mated to transitions using Type-A MPO adapters (B-to-A). All components in the link are mated key-up to key-down. Both ends of the link use A-to-B patch cords (straight through) to connect to their respective duplex transceiver ports.