



Agile Solution for Data Center Lynx-CustomFit™ Field assembly Splice-On Connector

SUMITOMO ELECTRIC INDUSTRIES, LTD. May, 2022





Problems at the Data Center

Conventional Pigtail Solutions present issues at every step of the installation.



Problems at the Data Center



- Difficult cable installation
- Handling of excess length
- Rack space
- Urgent maintenance

Management

- Time consuming pre-survey
- Ordering process
- Delivery lead time
- Stock management









Solutions at the Data Center

Custom solutions which prove massive efficiencies across stock management, cabling, maintenance, and manufacturing.



Solutions at the Data Center

T.S

On-Site

- Plug head less cable laying
- Perfect length
- Rack space saving
- Quick recovery

Management

- No pre-survey
- No patch cord design
- Time saving
- Simple stock management





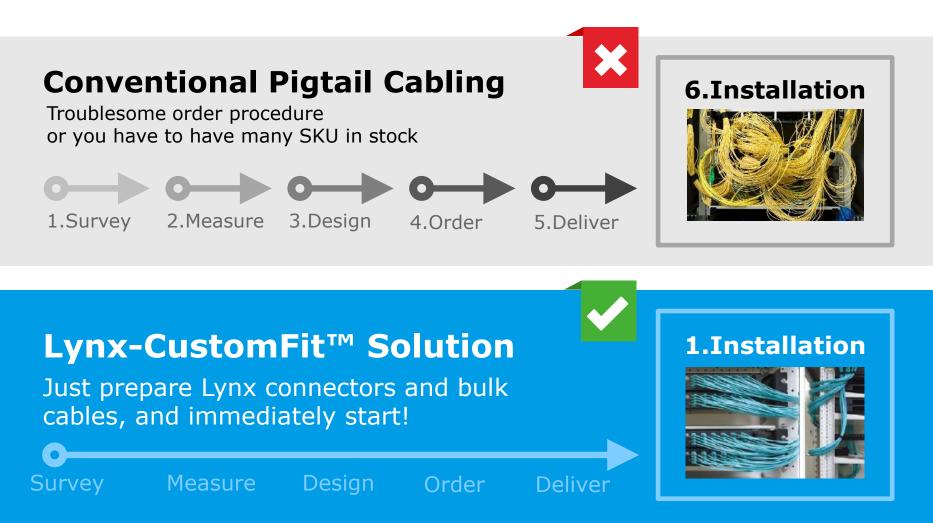
First, It Starts With Smooth Cable Installation





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No Pre-Survey and Cabling Design



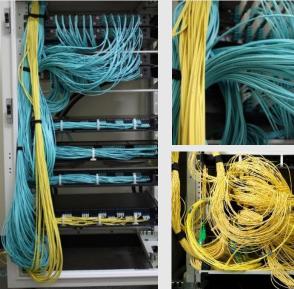


Slackless Cable Management

Conventional **Plug & Play Solution**



Chaotic routing due to use of fixed length pre-terminated cords





Lynx-CustomFit[™] Solution

Slackless cable management with Lynx connectors





Rack Space Saving (Depth)

Conventional Pigtail Solution



Conventional tray with splice tray

Lynx-CustomFit™ Solution

Shallow panel without splice tray applicable





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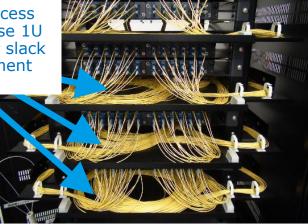
Rack Space Saving (Vertical)

Conventional Pigtail Solution



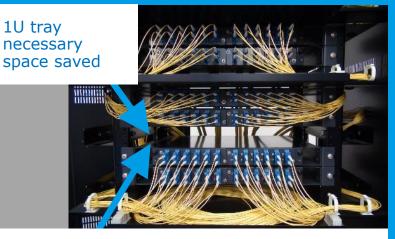
Conventional tray with splice tray





Lynx-CustomFit[™] Solution

Shallow panel without splice tray applicable



We can place 1 more patching panel in this case

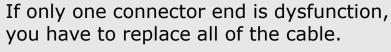


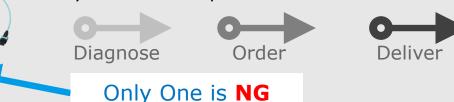
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Urgent Maintenance (In Case of No Inventory)

Conventional Plug & Play Cabling







Lynx-CustomFit[™] Solution



Just prepare Lynx connectors and replace only one connector immediately!



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Stock Management

Conventional Pigtail Cabling



- Need to have various kinds of SKU
- Occupy stock yard

Lynx-CustomFit™ Solution

- Just stock Lynx connectors and bulk cables
- Less stock space required





Manufacturing

Conventional Method

- Longer production lead time
- Skilled operators are required
- Consumables are expensive

0:00	0:30	1:00	1:30	2:00	2:30	3:00	3:3(
Cable cut, removing sheath		mination, U g time: app	V curing rox 1 hour)	Polish 个 12pcs/lot 30min/lot	Assembly 3min/pc	Inspection and packing	

72c Trunk Cable, 12 x MPO/Cable

72c Trunk Cable, 12 x MPO/Cable



Lynx-CustomFit[™] Solution

- Shorter production lead time
- Lower initial investment
- Skilled operators not required



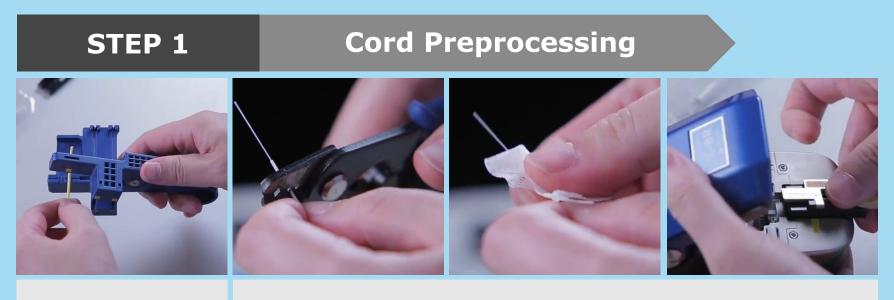


Summary: Lynx-CustomFit[™] Solution Solves Your Problems

Problems at Data Center:	Con	ventional		nx-CustomFit™ ution
Difficult Cable Installation	×		✓	
Handling of Excess Length	×			
Rack Space	×			
Urgent Maintenance	×		~	
Time Consuming pre-survey	×		\checkmark	
Ordering Process	×			
Delivery Lead time	*			
Stock Management	×		~	Contraction of the second



Lynx-CustomFit[™] Field Assembly Splice-On Connector



Remove and slit the cord sheath using the Lynx strip & slit tool.

Remove the buffer and cleave the fiber.



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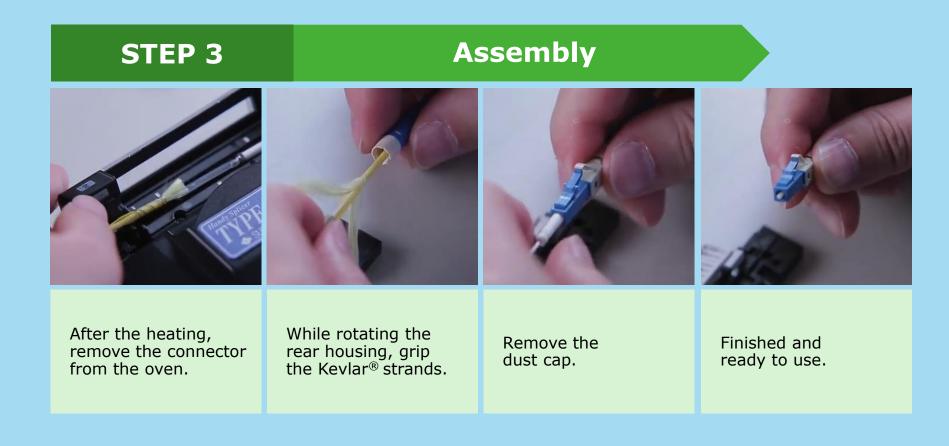
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Lynx-CustomFit[™] Field Assembly Splice-On Connector





Lynx-CustomFit[™] Field Assembly Splice-On Connector







A New Cabling Experience at your Data Center



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Reference

Lynx-CustomFit[™] Lineup and Specification

Full Lineup for all needs



Standards and Optical Performance

[SC	LC	FC	ST	Q8MPO / 12MPO
[Interface Standard	IEC61754-4	IEC61754-20	IEC61754-13	IEC 61754-2	IEC 61754-7-1
	Insertion Loss (against master plug)		SMF: Ave. 0.20 MMF: Ave. 0.10	SMF(Std Loss): Max.0.75dB SMF(Low Loss): Max. 0.4dB MMF(Low Loss): Max. 0.4dB		
	Return Loss (against master plug)			C), ≥ 55dB (UPC) 30dB (PC)		≥ 55dB

Lineup for Single Fiber Connector

Connector type	Polishing type	Fiber type	Connector color	Fiber / Cord diameter	Boot type
	APC	SM	Green	250 / 900μm Tight Buffer	
SC	UPC	SM	Blue	900um Loose Buffer	
LC		MM50(OM2)	Black	2mm with 900µm Tight Buffer	Standad boot Short boot *2
ST*1	PC	MM50(OM3)	Aqua	2mm with 900µm Loose Buffer 3mm with 900µm Tight Buffer	SHOIL DOUL 2
		MM62.5(OM1)	Beige	Sinin war soopin right barer	

*1 ST connector is available for SM(UPC polishing) and MM(PC polishing).

*2 Short boot is available for SC and LC type of 250 / 900 $\,\mu$ m tight buffer.

Lineup for MPO Connector

Guide pin	Fiber/Polishing type	Connector color	Cord diameter	
With (Without quide pin	SM Low loss	Yellow	RBN: 8c/12c Bare Ribbon RND: 8c/12c Round cord	
	SM Standard loss	Green		
With / Without guide pin	MM50(OM2) Low loss	Black	(<i>φ</i> 3mm)	
	MM50(OM3) Low loss	Aqua	RBC: 8c/12c Ribbon cord	



Lynx-CustomFit[™] Lineup and Specification

Full Lineup for all needs



Assembly Tool

Tool Name	[Part No.]	An appropriate Sumitomo Electric fusion splicer	Fiber cleaver [FC-8R-MC]	Jacket remover [JR-M03]	Hot jacket remover [JR-6+]	Sheath splitter [LYNX-CORDTOOL- 1.6-2.4]	Sheath splitter [LYNX-CORDTOOL- 2.0-3.0]	Kevlar snips [N-57]	ST assembly tool [LYNX2-ST- ASSEMBLY-TOOL]
Appear	ance		Ser.	X		*		5	Feel
Single Fiber	Cord	with all current models	•	•	-	 for 1.6/2.4mm cord 	 for 2/3mm cord 	•	 for ST connector
Single Fiber	Fiber	with all current models	•	•	 for φ0.2~0.4mm fiber 	-	-	-	 for ST connector
MPO	Round Cord / Ribbon Cord	with all current models	•	-	•	-	 for round cord / ribbon cord 	•	-
WFO	Bare Ribbon	• with ribbon fiber splicer	•	_	•	-	_	-	-

Fiber Holders for Single Fiber Connector

Туре	Part No. Left side (Setting fiber / cord)	Part No. Right side (Setting ferrule sub-assembly)
250µm fiber	FHS-025 or LYNX2-S-LB5(2MM)	
900µm Tight Buffer	FHS-09 or LYNX2-UML-S	
900µm Loose Buffer	LYNX2-S-LB5(2MM)	LYNX2-C (Plastic, Standard) * or
2mm cord with 900µm Tight Buffer	LYNX2-UML-S	LYNX2-UML-C (Metal, Option)
2mm cord with 900µm Loose Buffer	LYNX2-S-LB5(2MM)	
3mm cord with 900µm Tight Buffer	LYNX2-UML-S	

Fiber Holders for MPO Connector

Туре	Part No, Left side (Setting fiber / cord)	Part No. Right side (Setting ferrule sub-assembly)
Bare Ribbon	12-fiber: FHM-12V 8-fiber: FHM-8	LYNX2-C(MT) (Plastic, Standard) *
Round Cord		(Plastic, Standard)
Ribbon Cord		(Metal, Option)

* 1 pc of LYNX2-C(MT) holder is supplied with every 100 connectors.

* 1 pc of LYNX2-C holder is supplied with every 100 connectors.



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