

Lynx-CustomFit[™] Splice-On Connector

Introduction for Telecoms/Contractors/Technicians

Sumitomo Electric Industries, Ltd.





Types of Field Installable Connectors



Equipment Cost	Low	High (Fusion Splicer)
Installation	Quick & easy	Easy
Splice Check	Checking leaked light with Visual Light Source	Splice Loss estimation by Fusion Splicer
Optical Loss performance	Good	Excellent (same as factory—connectorization)
Typical Application	FTTH; Home reach, LAN; cable termination	FTTH; Home reach, central office; OSP Cable / Patch cord termination, data centre



What is Lynx-CustomFit™?

Lynx-CustomFit[™] Uses Fusion Splicers



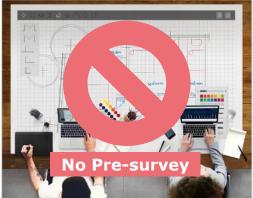












- Low loss
- No polishing
- No pre-survey
- Installable in small space

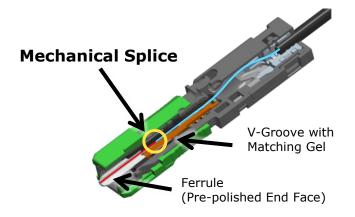




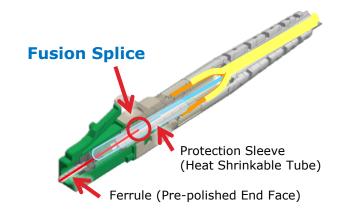
Telecom/ ((*)) Contractor

Excellent Loss with Fusion Splicer

Mechanical Splice Connector (Non Polish Type)



- Good loss
- Precise mechanical alignment by using matching gel
- Quick installation



- Excellent loss
- Fusion splice technology directly connects cores
- Easy installation







Screening the Variance of Splice Loss

Mechanical Splice Connector (Non Polish Type)





















Completed

Loss is not checked.

Lynx-CustomFit[™] (Fusion Splice Connector)











0.00dB



0.00dB

Low Loss!













Completed with Low Loss!

Estimated loss is checked.

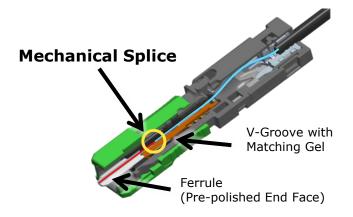




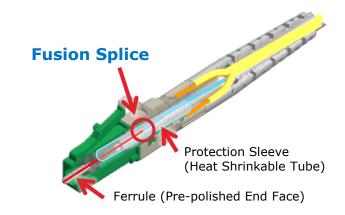
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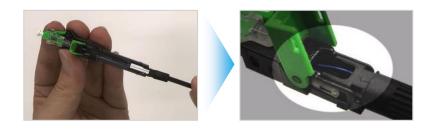




Splice Automatically with Fusion Splicer



Mechanical Splice Connector (Non Polish Type)



- Manual insertion is required to connect fibres
- Connect fibres by using Jigs







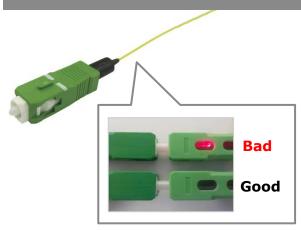
- Automatic splice by fusion splicer
- No special skills needed to connect fibres. Fusion splicer makes acceptable splicing
- Help videos are available



Technicians

Splice Check

Mechanical Splice Connector (Non Polish Type)



The visual light source can tell success or failure of the termination

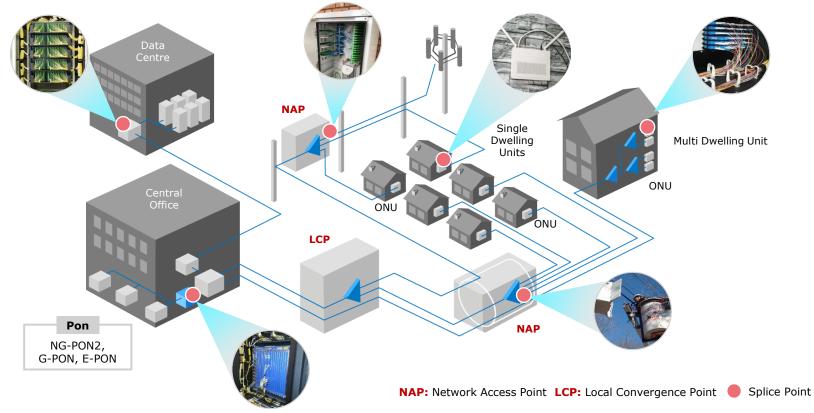


- Fusion splicer can tell the estimation loss
- During the installation, checking the loss is quite important to meet required loss budget
- Even a beginner technician can terminate correctly





Area of Application: Lynx-CustomFit™







http://www.global-sei.com

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(Std Loss) : Max.0.75dB SMF(Low Loss): Max. 0.4dB MMF(Low Loss): Max. 0.4dB			
Return Loss (against master plug)		SMF: ≥ 55dB			

Lineup for Single Fibre Connector (Lynx-CustomFit™ Ver.3)

Connector type	Polishing type	Fibre type	Connector color	Fibre / Cord diameter	Boot type
	APC	SM	Green		
sc	UPC	SM	Blue	250μm/900μm *2	Standard boot Short boot *3
LC FC		MM50(OM2)	Black	2mm with 900µm Tight Buffer 2mm with 900µm Loose Buffer	
ST*1	PC	MM50(OM3)	Aqua	3mm with 900µm Tight Buffer	
		MM62.5(OM1)	Beige		

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

Lineup for MPO Connector (Lynx-CustomFit[™] Ver.2)

Guide pin	Fibre/Polishing type	Connector color	Cord diameter
	SM Low loss	Yellow	RBN: 8c/12c Bare Ribbon
With / Without guide pin	SM Standard loss	Green	RND: 8c/12c Round cord
	MM50(OM2) Low loss	Black	(φ3mm)
	MM50(OM3) Low loss	Aqua	RBC: 8c/12c Ribbon cord



^{*2 250}µm/900µm is applicable for the following; 250µm, 900µm Tight buffer, 900µm Loose Tube and 900µm Loose Buffer

^{*3} Short boot is available for SC and LC type of 250µm/900µm tight buffer.

Lynx-CustomFit™ Lineup and Specification

Full Lineup for all needs



Assembly Tool

Tool Name [Part No.]		An appropriate Sumitomo Electric fusion splicer	Fibre cleaver [FC-8R]	Jacket remover [JR-M03]	Thermal jacket remover [JR-7]	Sheath splitter [LYNX-CORDTOOL- 1.6-2.4]	Sheath splitter [LYNX-CORDTOOL- 2.0-3.0]	Kevlar snips [N-57]	ST assembly tool [LYNX-ST- AT-01]
Appea	rance	◆ 18%*		Se .	100	*		5	
Single Fibre	Cord	with all current models	•	•	_	● for 1.6/2.4mm cord	for 2/3mm cord	•	for ST connector
Siligle Fibre	Fibre	with all current models	•	•	● for φ0.2~0.4mm fiber	-	-	-	for ST connector
мро	Round Cord / Ribbon Cord	● with ribbon fibre splicer	•	-	•	_	for round cord / ribbon cord	•	-
MPO	Bare Ribbon	● with ribbon fibre splicer	•	-	•	_	_	-	_

Fibre Holders for Single Fibre Connector (Lynx-CustomFit™ Ver.3)

Туре	Part No. Left side (Setting fibre / cord)	Part No. Right side (Setting ferrule sub-assembly)		
250µm fibre	FHS-025 or LYNX-S-LB			
900μm Tight Buffer	FHS-09 or LYNX-S			
900μm Loose Tube 900μm Loose Buffer	LYNX-S-LB	LYNX-C-PLS (Plastic, Standard) * or		
2mm cord with 900µm Tight Buffer	LYNX-S	LYNX-C (Metal, Option)		
2mm cord with 900µm Loose Buffer	LYNX-S-LB			
3mm cord with 900µm Tight Buffer	LYNX-S			

Fibre Holders for MPO Connector (Lynx-CustomFit™ Ver.2)

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

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

