SUMITOMO ELECTRIC

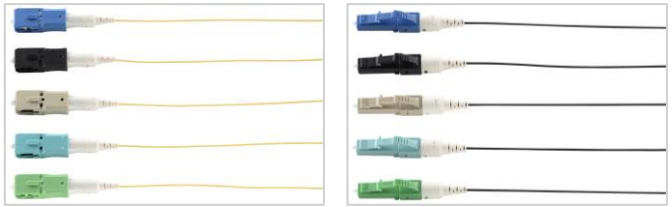
Lynx-CustomFit™ Splice-On Connector

Introduction for Telecoms/Contractors/Technicians

Sumitomo Electric Industries, Ltd.

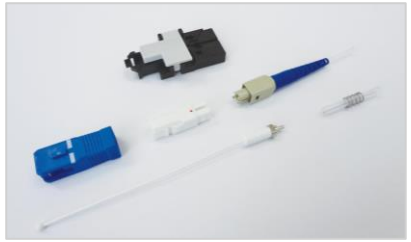
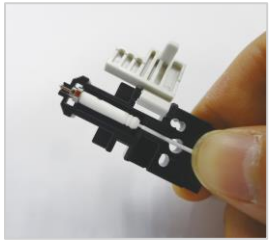
SUMITOMO ELECTRIC GROUP

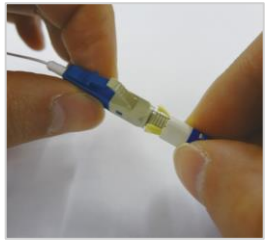
Types of Field Installable Connectors

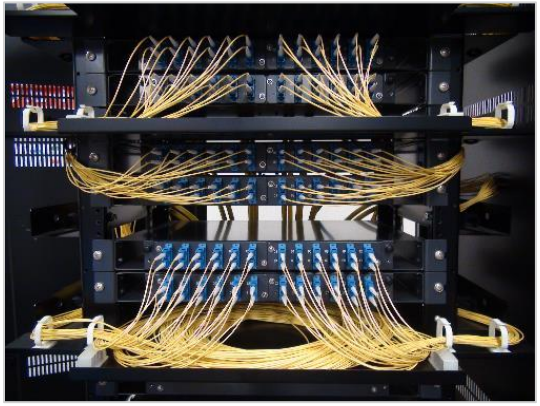
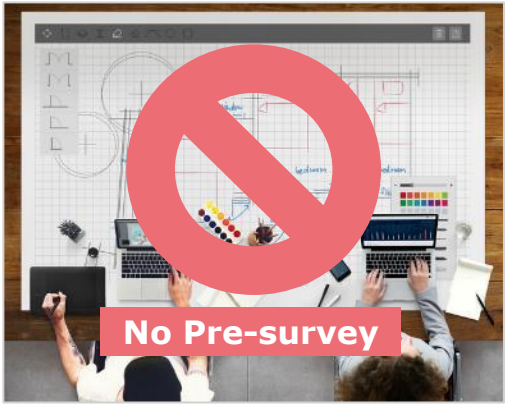
	Mechanical Splice Type	Fusion Splice Type (Lynx-CustomFit™)
		
Equipment Cost	**Low**	High (Fusion Splicer)
Installation	**Quick & easy**	Easy
Splice Check	Checking leaked light with Visual Light Source	**Splice Loss estimation by Fusion Splicer**
Optical Loss performance	Good	**Excellent (same as factory—connectorization)**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

What is Lynx-CustomFit™?

Lynx-CustomFit™ Uses Fusion Splicers

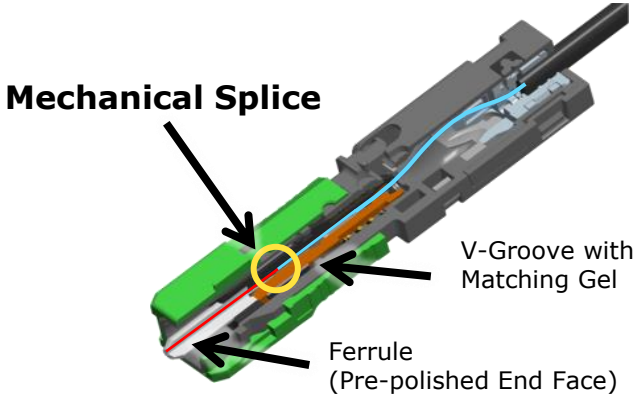


- Low loss
- No polishing
- No pre-survey
- Installable in small space

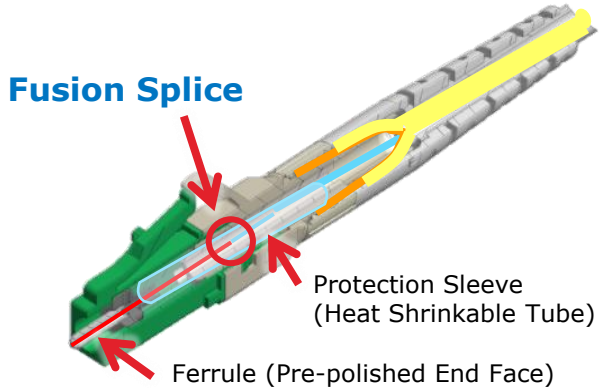
Excellent Loss with Fusion Splicer

Mechanical Splice Connector (Non Polish Type)



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

Lynx-CustomFit™ (Fusion Splice Connector)



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

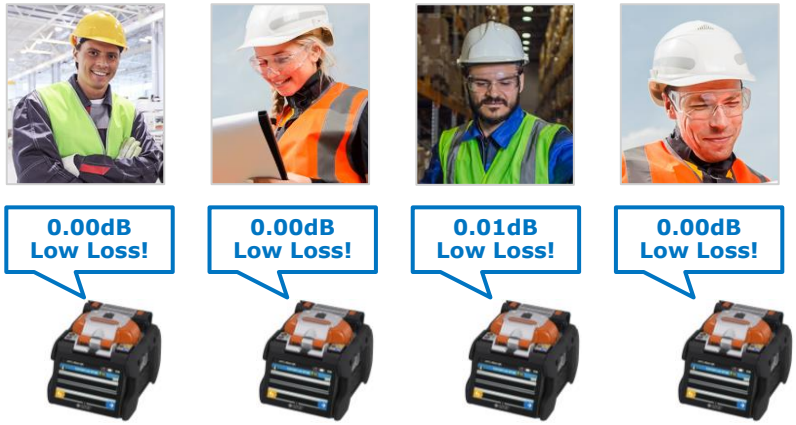
Screening the Variance of Splice Loss

Mechanical Splice Connector (Non Polish Type)

Completed

Loss is not checked.

Lynx-CustomFit™ (Fusion Splice Connector)



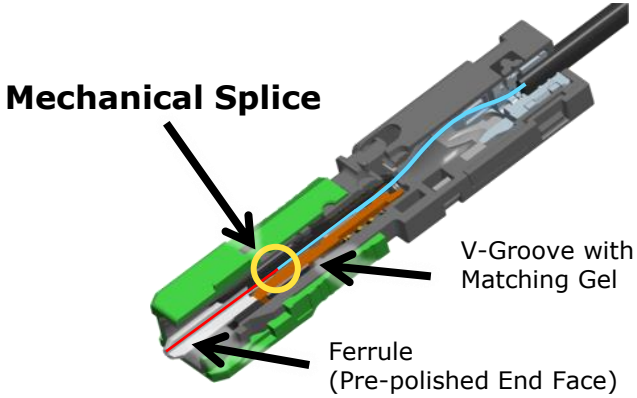
Completed with Low Loss!

Estimated loss is checked.

Excellent Loss with Fusion Splicer

Technicians

Mechanical Splice Connector (Non Polish Type)



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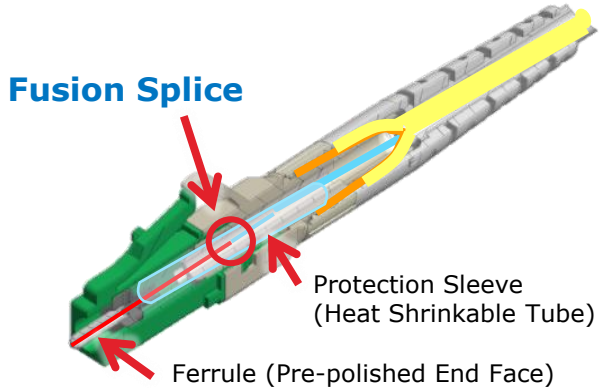
Lynx-CustomFit™ (Fusion Splice Connector)



- Excellent loss
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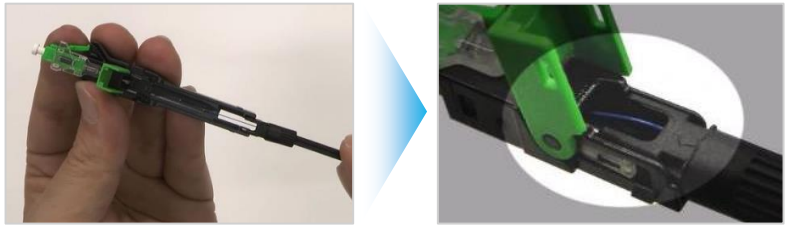
Splice Automatically with Fusion Splicer

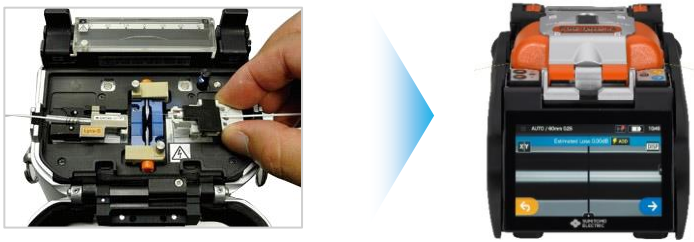
Technicians

Mechanical Splice Connector (Non Polish Type)



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

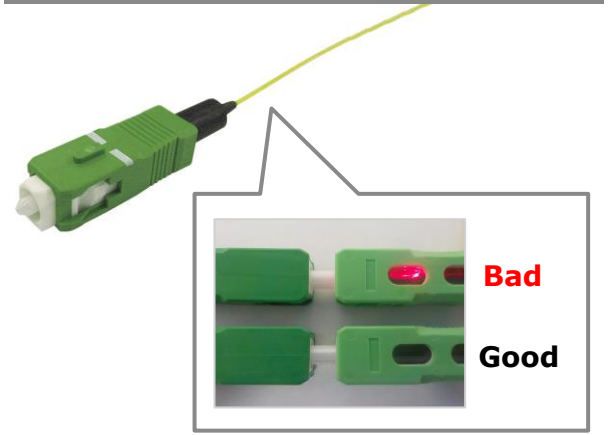
Lynx-CustomFit™ (Fusion Splice Connector)



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

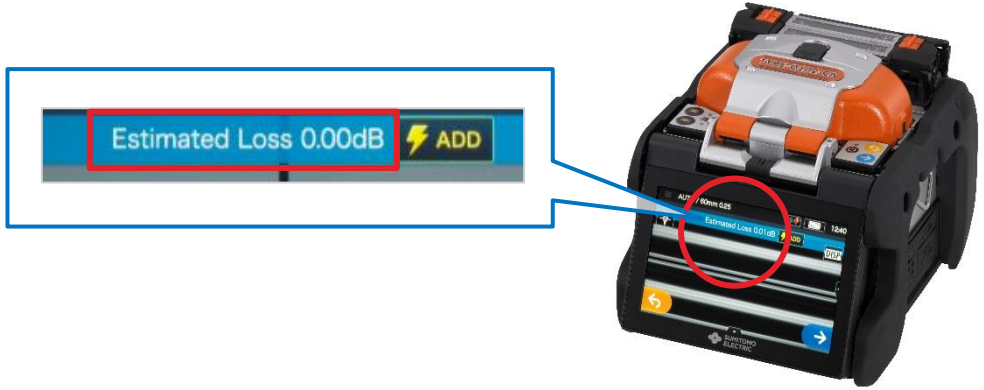
Splice Check

Mechanical Splice Connector (Non Polish Type)



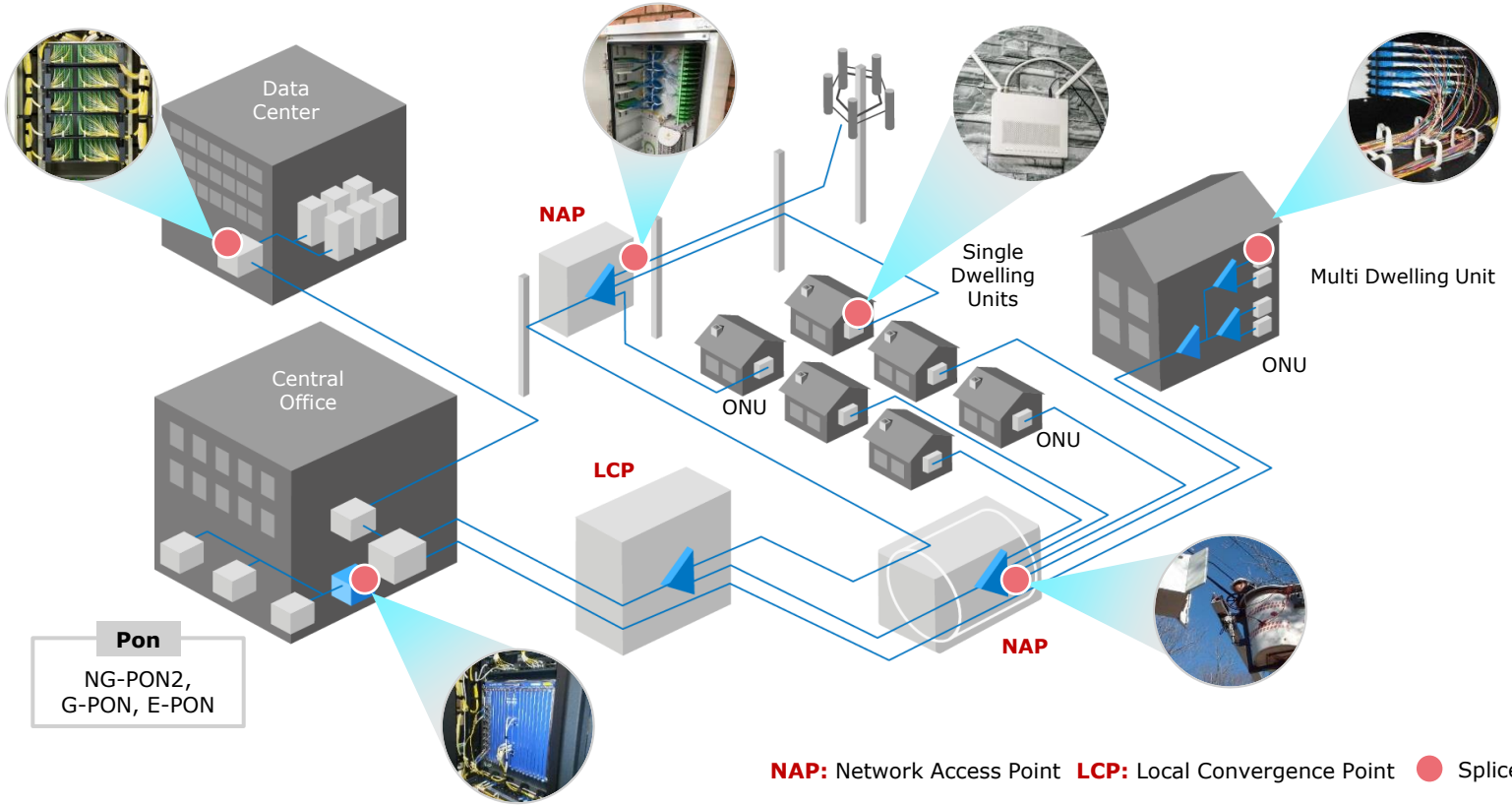
- The visual light source can tell success or failure of the termination

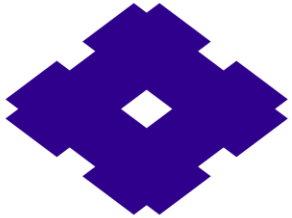
Lynx-CustomFit™ (Fusion Splice Connector)



- 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™





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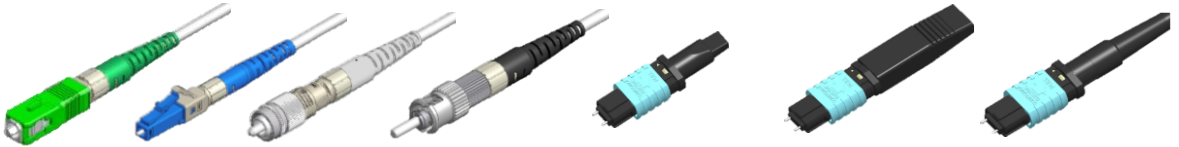
Lynx-CustomFit™ Lineup and Specification

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. 0.2dB, Max. 0.3dB MMF: Ave. 0.1dB, Max. 0.25dB				SMF(Std Loss) : Max.0.75dB SMF(Low Loss): Max. 0.4dB MMF(Low Loss): Max. 0.4dB
Return Loss (against master plug)	SMF: ≥ 60dB (APC), ≥ 55dB (UPC) MMF: ≥ 30dB (PC)				SMF: ≥ 55dB

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

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

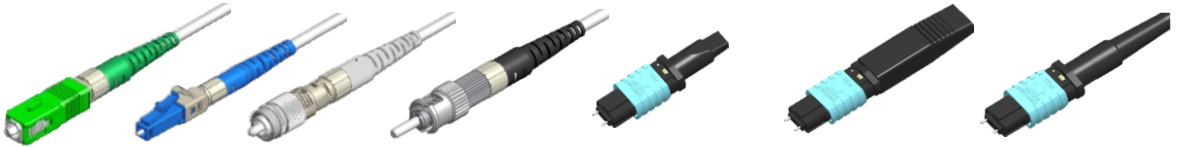
*1 ST connector is available for SM(UPC polishing) and MM(PC polishing).
*2 250μm/900μm is applicable for the following; 250μm, 900μm Tight buffer, 900μm Loose Tube and 900μm Loose Buffer
*3 Short boot is available for SC and LC type of 250μm/900μm tight buffer.

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

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

Lynx-CustomFit™ Lineup and Specification

Full Lineup for all needs



SC LC FC ST Bare Ribbon Ribbon Cord 3mm Round Cord

Assembly Tool

Tool Name [Part No.]		An appropriate Sumitomo Electric fusion splicer	Fiber 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]
Appearance									
Single Fiber	Cord	● with all current models	●	●	–	● for 1.6/2.4mm cord	● for 2/3mm cord	●	● for ST connector
	Fiber	● with all current models	●	●	● for φ0.2~0.4mm fiber	–	–	–	● for ST connector
MPO	Round Cord / Ribbon Cord	● with ribbon fiber splicer	●	–	●	–	● for round cord / ribbon cord	●	–
	Bare Ribbon	● with ribbon fiber splicer	●	–	●	–	–	–	–

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

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

* 1 pc of LYNX-C-PLS holder is supplied with every 10 connectors.

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

Type	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) * or LYNX2-C(MT) Metal (Metal, Option)
Round Cord		
Ribbon Cord		

* 1 pc of LYNX2-C(MT) holder is supplied with every 10 connectors.