Lynx-CustomFit™ Field assembly Splice-On Connector ver.2

Introduction for Telecoms/Contractors/Technicians

Sumitomo Electric Industries, Ltd.

Types of Field Installable Connectors
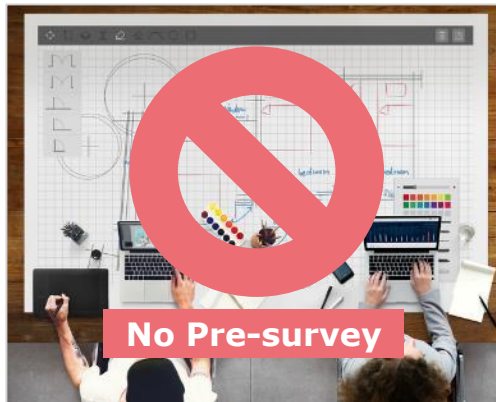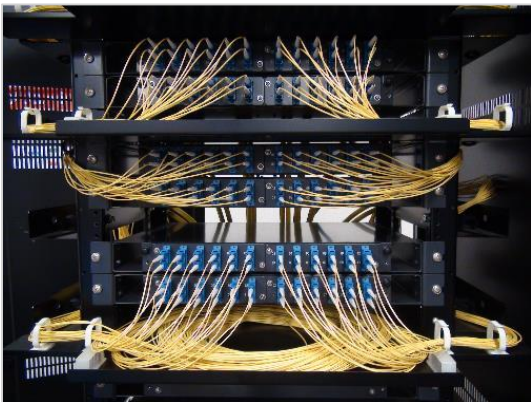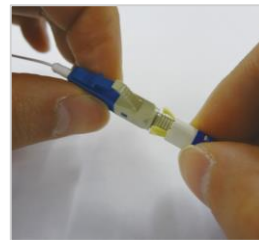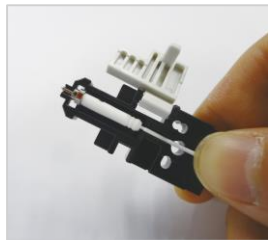
Mechanical Splice Type		Fusion Splice Type (Lynx-CustomFit™)	

	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

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What is Lynx-CustomFit™?

Lynx-CustomFit™ Uses Fusion Splicers
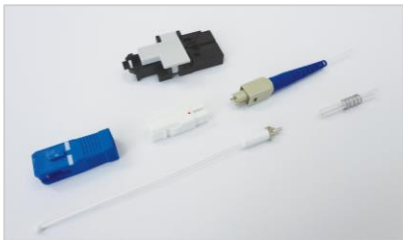
No Pre-survey

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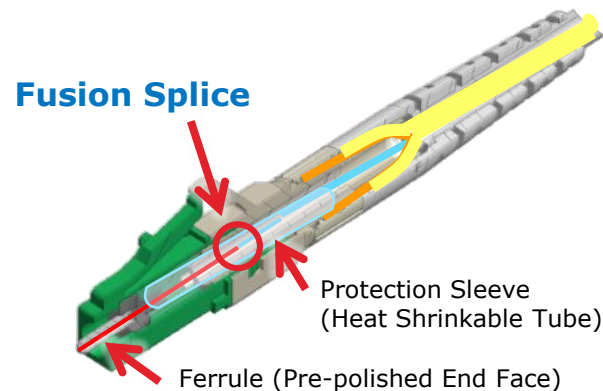- No polishing
- No pre-survey
- Installable in small space

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Excellent Loss with Fusion Splicer

Mechanical Splice Connector (Non Polish Type)	Lynx-CustomFit™ (Fusion Splice Connector)
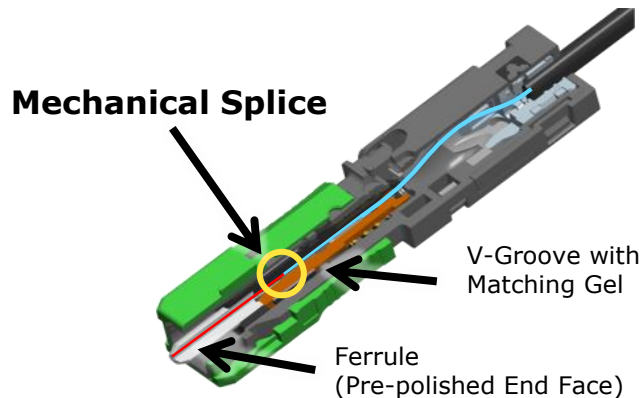
Mechanical Splice

V-Groove with Matching Gel

Ferrule (Pre-polished End Face)

Fusion Splice

Protection Sleeve (Heat Shrinkable Tube)

Ferrule (Pre-polished End Face)

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

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

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Telecom/ Contractor

Screening the Variance of Splice Loss

Mechanical Splice Connector (Non Polish Type)	Lynx-CustomFit™ (Fusion Splice Connector)

OK   **OK**   **OK**   **OK**

0.00dB Low Loss!   **0.00dB Low Loss!**   **0.01dB Low Loss!**   **0.00dB Low Loss!**

Completed

Completed with Low Loss!
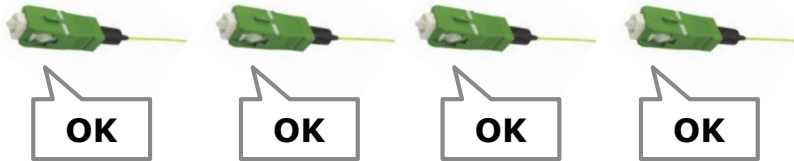
Loss is not checked.

Estimated loss is checked.

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Excellent Loss with Fusion Splicer

Technicians

Mechanical Splice Connector (Non Polish Type)	Lynx-CustomFit™ (Fusion Splice Connector）

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Splice Automatically with Fusion Splicer

Technicians

Mechanical Splice Connector (Non Polish Type)	Lynx-CustomFit™ (Fusion Splice Connector）

- Manual insertion is required to connect fibers
- Connect fibers by using Jigs
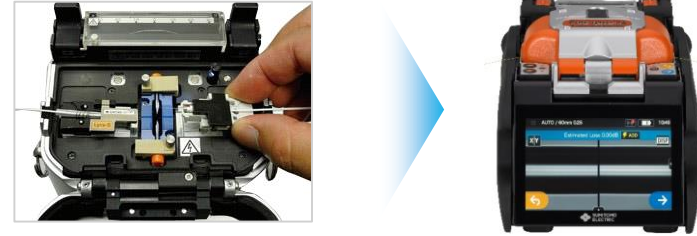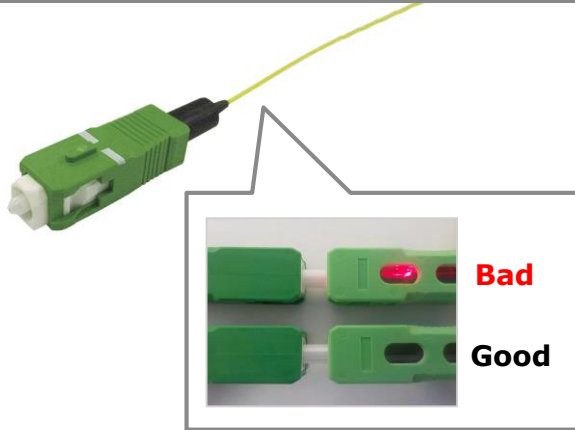
- Automatic splice by fusion splicer
- No special skills needed to connect fibers. Fusion splicer makes acceptable splicing
- Help videos are available

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Splice Check

Technicians

Mechanical Splice Connector (Non Polish Type)	Lynx-CustomFit™ (Fusion Splice Connector)

Bad

Good

Estimated Loss 0.00dB ⚡ ADD

- The visual light source can tell success or failure of the termination
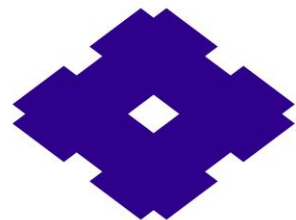
- Fusion splicer can tell the estimation loss
- During the installation, checking the loss is quite important to meet required loss budget
- Even a beginner technician can terminate correctly

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Area of Application: Lynx-CustomFit™

Data Center

NAP

Single Dwelling Units

Multi Dwelling Unit

ONU

Central Office

ONU

ONU

LCP

Pon

NG-PON2, G-PON, E-PON

NAP
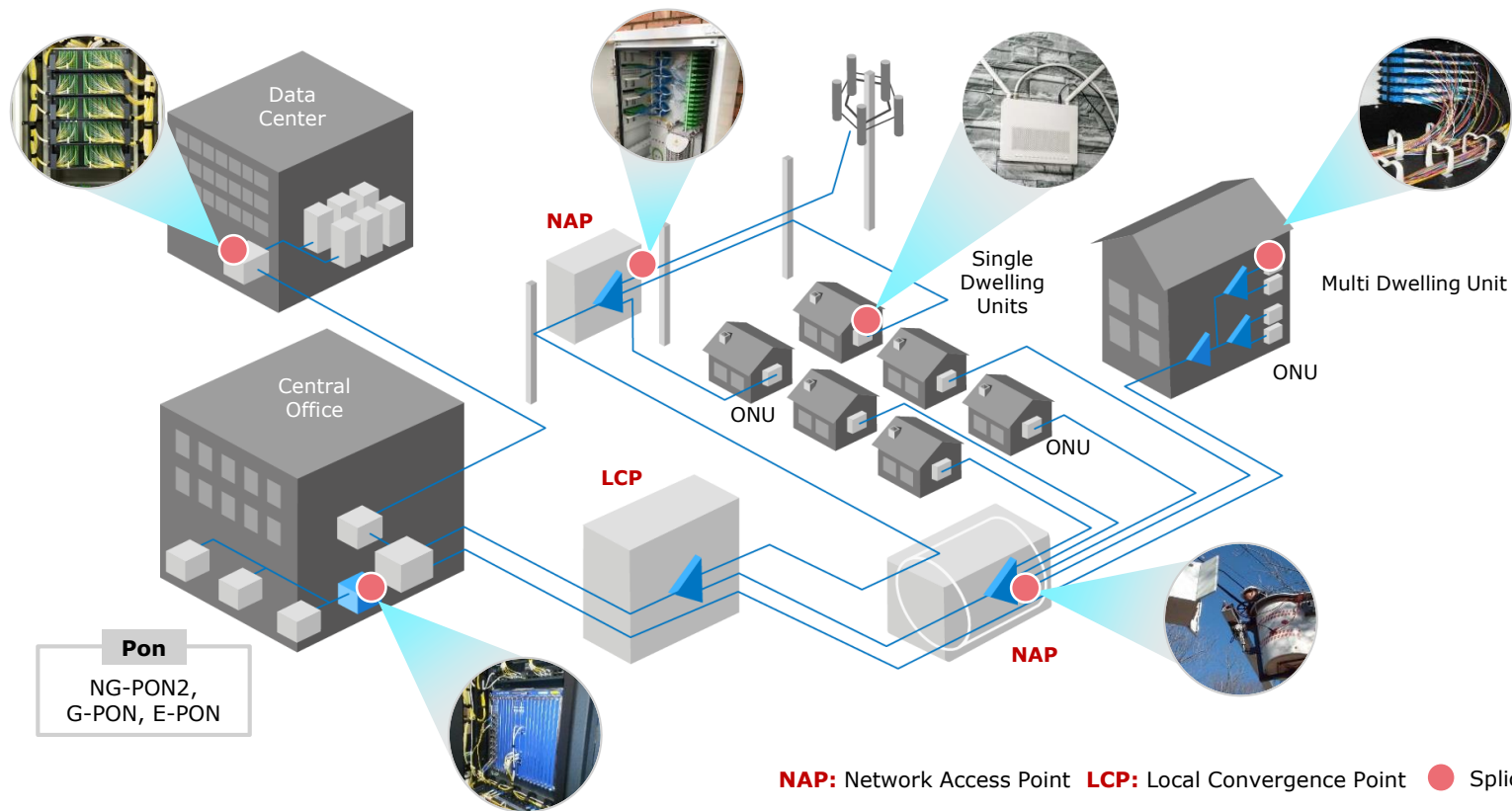
NAP: Network Access Point   **LCP:** Local Convergence Point   ● Splice Point

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