Optical Connectors

Field Installable Connectors (Fusion Splice Type)

Lynx-CustomFit™ Splice-On Connector Ver.2

Splice-on fiber optic connector enabling quick, easy and reliable permanent field terminations

- ■ Eliminating crimping process and crimping tools
- ■ Requires neither adhesives, hand polishing, nor matching gel
- ■ Compatible with Sumitomo Splicers and other brands
- ■ Can apply for the place required low return loss as analog transmission, etc.
- ■ Can apply for wide temperature range.

	SC	LC	FC	ST	Q8MPO / 12MPO
Interface standard	IEC61754-4	IEC61754-20	IEC61754-13	IEC 61754-2	IEC61754-7-1
Insertion Loss (against master plug)	SMF: Ave.0.2dB, Max. 0.3dB MMF: Ave.0.1dB, Max. 0.25dB				SMF,MMF Low Loss (LL) Max. 0.4dB SMF Standard Loss Max. 0.75dB
Return Loss (against master plug)	SMF: ≥ 60dB (APC), ≥ 55dB (UPC) MMF: ≥ 30dB (PC)				SMF: ≥ 55dB

Lineup for Single fiber connector

Connector type	Polishing type	fiber type	Connector Color	fiber / Cord diameter	Boot type
SC LC FC ST*1	APC	SM	Green	250 / 900μm Tight Buffer 900μm Loose Buffer 2mm with 900μm Tight Buffer 2mm with 900μm Loose Buffer 3mm with 900μm Tight Buffer	Standard boot Short boot *2
	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).
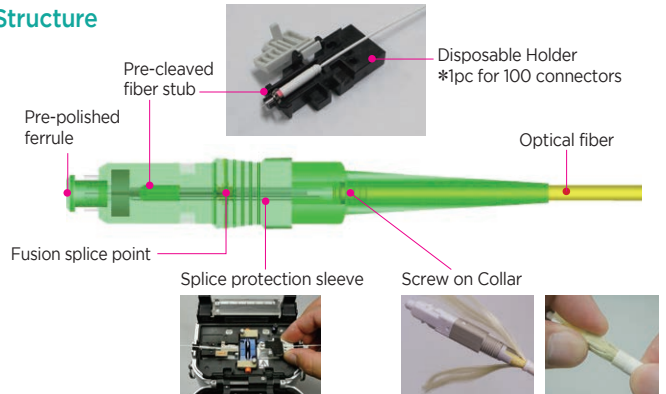*2 Short boot is available for SC and LC type of 250 / 900 μm tight buffer.

Lineup for MPO connector

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	

*MM50(OM2) Low Loss type is available for 12c(12-fiber).

LYNX2-SC

LYNX2-LC

Lynx2-ST

LYNX2-FCM

LYNX2-MPO

TYPE-82C+

TYPE-72M12

Structure

Pre-cleaved fiber stub

Disposable Holder ＊1pc for 100 connectors

Pre-polished ferrule
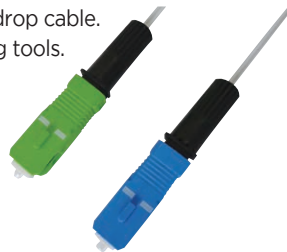
Optical fiber

Fusion splice point

Splice protection sleeve

Screw on Collar

e-SC Fusion™ Connector

- ■ Compatible with the rectangular drop cable.
- ■ No crimping process and crimping tools.

	e-SC Fusion™ Connector	
Ordering Code	ESCF-SC/APC	ESCF-SC/UPC
Fiber Type	SM	
Applicable Cable	Indoor Cable/Drop Cable 1.6×2.0 to 2.0×3.1 (mm)	
Polish	APC	UPC
Insertion Loss	SM: Typ. ≤ 0.15dB, Max. ≤ 0.3dB (against master plug)	
Return Loss	SM: ≥ 60dB (APC), ≥ 50dB (UPC) (against master plug)	
Operating Temperature	-40 to +75°C	
Housing Color	SM.APC Green	SM.UPC Blue
Interface	IEC 61754-4	
Qualification	IEC 61753-1 Cat.OP	

■ Assembly Tools

Fiber cleaver	Jacket remover	Kevlar snips	Cable Holder

Field Installable Connectors (Fusion Splice Type)

Assembly procedures

① Set Ferrule on Holder ▶ ② Fusion Splicing ▶ ③ Shrinking Sleeve ▶ ④ Secure Kevlar ▶ ⑤ Complete

Connector Kit

LYNX2-SC

LYNX2-LC

MPO-RBN
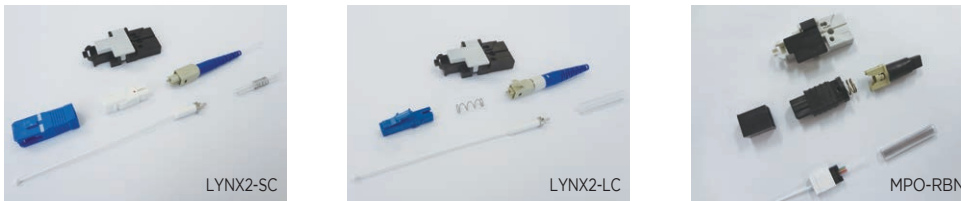
Assembly procedure video

There is the case that an address is changed without a notice and cannot watch.

Assembly Tools

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]
Appearance									
Single Fiber	Cord	● with all current models	●	●	—	● for 1.6 / 2.4mm cord	● for 2 / 3mm cord	●	● for ST connector
	Fiber		●	●	● for 0.2-0.4mm fiber	—	—	—	● for ST connector
MPO	RoundCord/ RibbonCord	● with ribbon fiber splicer [TYPE-72M12]	●	—	●	—	● for round cord / ribbon cord	●	—
	Bare Ribbon		●	—	●	—	—	—	—

Fiber holders for single fiber connector

Type	Left side (setting fiber / cord)	Right side (setting ferrule sub-assembly)
250μm fiber	FHS-025 LYNX2-S-LB5(2MM)	
900μm Tight Buffer	FHS-09 LYNX2-UML-S	
900μm Loose Buffer	LYNX2-S-LB5(2MM)	LYNX2-C (Plastic, Standard) * LYNX2-UML-C (Metal, Option)
2mm cord with 900μm Tight Buffer	LYNX2-UML-S	
2mm cord with 900μm Loose Buffer	LYNX2-S-LB5(2MM)	
3mm cord with 900μm Tight Buffer	LYNX2-UML-S	

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

Fiber holders for MPO connector

Type	Left side (setting fiber / cord)	Right side (setting ferrule sub-assembly)
Bare Ribbon		
Round Cord	12-fiber: FHM-12V 8-fiber: FHM-8	LYNX2-C(MT) (Plastic, Standard) * LYNX2-C(MT) Metal (Metal, Option)
Ribbon Cord		

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

Lynx2-Duplex-LC-Clip

Lynx2-LC turns into Duplex type easily

■One piece, Simple design
■Easy installation and detachable design
■Lynx2-LC for 250/900μm, 900μm LB,1.6mm and 2mm types are available
■Clip size: W13.4mm × H12.6mm

Note: In case of the optical cord with 2.4mm or larger diameter, please ask the ordering code of the connector.

Lynx2 with Short Boot

Compact size for small cabinet

■Short Silicone Boot
■Lynx2-SC and LC for 900μmtypes are available