



S124X Ribbon Fiber Fusion Splicer



Features And Benefits

- Easily exchangeable fiber guide V-grooves
- Up to 16-fiber 200 μm ribbon splicing
- 15-second-high speed splicing operation
- Suited for 250 μm and 200 μm pitch 12-fiber ribbons
- Simple operation with touch panel and GUI
- 3 Bright LED's to illuminate the operation area
- Wi-Fi connectivity for smartphone data management and control

Overview

The powerful FITEC S124X Hand-Held Ribbon Fusion Splicer delivers fast and reliable optical splicing for 200 μm 16-fiber pitched ribbons even under rigorous environmental conditions. The S124X combines multiple functions into one machine, offering a wider range of capabilities that unites innovative technology, cost savings and opens the door to an entirely new range of applications.



Large Splicing Chamber



Easily exchangeable fiber guide V-grooves.



Rollable Ribbon - It bends, molds and rolls into shapes - combining benefits of loose and ribbon fibers, creating the best high-density platform for any application!

Product Description

Designed with end users in mind, the FITEC S124X Fusion Splicer delivers rapid splicing/heating with reliable and consistent results. This fusion splicer is specially designed for the use of hyper-scale ribbon cable, and is an excellent choice for a variety of deployments including Data Centers, Metro, Backbone and Long-Haul applications. A broad range of new features that enhance communication, ease of use, portability and field durability have been combined together to make the S124X Fusion Splicer one of the most powerful and user-friendly fusion splicing machines available today.

Specifications	
Applicable Fibers*1	SM (ITU-T G.652 / G.657A1 / G.657A2), MM (ITU-T G.651), DS (ITU-T G.653) NZD (ITU-T G.655), UBIF (ITU-T G.657B3)
Fiber Count	2, 4, 6, 8, 12, 16
Cladding Diameter	125 μm
Fiber Coating Diameter	Single fiber: 200 μm, 250 μm, 900 μm Ribbon fiber: 200 μm, 250 μm, 200-250 μm pitch transition (with holders)
Fiber Cleaving Length	10mm
Average Splice Loss*2	SM: 0.05dB MM: 0.03dB DS: 0.08dB NZD: 0.08dB BIF: 0.05dB
Typical Splice Time	16-fiber ribbon: 23sec. 12-fiber ribbon: 15sec. Single fiber: 13sec.
Typical Heating Time	16-fiber ribbon: 28sec. 12-fiber ribbon: 28sec. Single fiber: 13sec.
Splice Program	Max. 300
Heat Program	Max. 100
Applicable Protection Sleeve Length	40mm / 60mm
Tension Test	1.96N
Discharge Compensation Function	Automatic correction according to temperature and atmospheric pressure
Optical Fiber Observation Method	Two-way observation from X and Y axes
Monitor	4.3 inch wide LCD monitor with touch screen
Magnification	24X magnification
Splice Result Storage / Image Capture Capacity	Last 10,000 splices / Last 100 images to be automatically captured
Dimensions	139W X 209D X 114H mm (not including shock absorber) 179W X 246D X 131H mm (including shock absorber)
Weight	1.8kg (with battery)
Data Output	USB ver.2 mini B X 1 port, Standard Ax 1 port
Power Source	AC : 100-240V (50/60Hz) DC : 11-24V
Battery Capacity*3	200 splice and heating cycles
Electrode Life*	1,200 splice
Operating Condition	Altitude: -2,000m(1-12-fibers), 1,000m(16-fibers) Wind protection: 15m/s. Operating temperature: -10 to +50 °C (non-condensing)
Storage Condition	-40 to +60 °C (non-condensing)
Note	*1 Corresponding to optical fiber in compliance with ITU-T recommendation. *2 This numerical number is the one when measured for the purpose to show the fusion splice characteristics in the testing method of IEC 61073-1, it is not the one to guarantee the splicing loss. *3 Number of times that the fusion splicing of the fiber and the heat reinforcement can be performed continuously at a rate of once a 90seconds at the room temperature (20°C) condition when using a new 100% charged battery. The number of times you can use depends on the state of the battery and usage. *4 The number of times will vary depending on the state of the electrode rod and the operating environment.



3 LED's provide a bright operation environment



Detachable fiber clamp operation for easy fiber setting



Touch panel and Wi-Fi network connectivity

Drop Impact Resistance Performance and Environmental Resistance Performance

Drop impact	Vertical drop test (5 sides excluding the top side) is conducted from a height of 76 cm and the normal operation is confirmed.
Impact protection	The normal operation is confirmed after dropping a 500 grams weight of IK 07 grade from height of 40 cm onto the equipment.
Dust proof	The normal operation is confirmed after putting the equipment in a device containing dust of 25 µm or less for 8hours.
Drip proof	The normal operation is confirmed after exposing water droplet of IPX 2 grade with 3mm/min to 4 sides for 2.5 min or more tilted by 15 degrees.

Standard Package

Item	Model No.	S124X-3-0 (Qty)	S124X-3-1 (Qty)
S124X main body	S124X X-A-0001	1	1
0.25 mm pitch fiber guide v-groove	FVG-12-P250	1	1
Hard carrying case	HCC-11	1	1
Battery pack	S947	1	1
Spare electrode	ELR-01	1	1
AC adapter	S979	1	1
AC power cord	-	1	1
Cooling tray	CTX-03	1	1
Fiber reformer (4 fiber)	FRF-01	1	1
Fiber reformer (8/12 fiber)	FRF-02	1	1
Cleaning blush	VGC-01	1	1
Electrode sharpener	D5111	1	1
Tool case	TCC-01	1	1
Strap plate	SPL-01	1	1
LCD anti-reflective sheet	ARS-01	1	1
Quick Reference guide	FTS-B559	1	1
Rubber foot	RBC-01		
Instruction manual	UMC-03	1	1
Wi-Fi dongle	WFD-01	0	1



Accessories

Item	Model No.
Thermal Stripper	S218R-200 Ver 2
Ribbon Cleaver	S326R Ver 2
Fiber Wipes	FW-01
Fiber Preparation Fluid	FPF-01
Rollable Ribbon Protection Sleeve	S927R



V-Groove



Stripper



Cleaver

Optional Components

Item	Model No.	Qty
Soft carrying case	SCC-01	1
Battery charger	S980	1
Angled stand	AGS-02	1
Work belt	WBT-01	1
Neck strap work table	NSB-03	1
Neck strap	NSB-04	1
Transport jig	TRP-07	1
Pedestal for transport holder	TRH-03	1
USB cable	USB-01	1
Car cigarettes cable	CDC-04	1
Rollable Ribbon Separator Tool	RST-01	1

Fiber Holder

Item	Model No.	Qty
Fiber holder (0.25mm coating fiber)	S712S-250	1 pair
Fiber holder (0.90mm coating fiber)	S712S-900	1 pair
Fiber holder (2 fiber ribbon)	S712A-002	1 pair
Fiber holder (4 fiber ribbon)	S712A-004	1 pair
Fiber holder (6 fiber ribbon)	S712A-006	1 pair
Fiber holder (8 fiber ribbon)	S712A-008	1 pair
Fiber holder (12 fiber ribbon)	S712A-012	1 pair
Fiber holder (12 fiber wide ribbon)	S712A-012W	1 pair
Fiber holder (12 fiber rollable ribbon)	S712A-12e	1 pair
Fiber holder (12 fiber rollable wide ribbon, 250um fiber coating)	S712A-12eW	1 pair
Fiber holder (12 fiber rollable ribbon, 200um fiber coating)	S712A-12e-P200	1 pair
Fiber holder (12 fiber rollable wide ribbon, 200um fiber coating)	S712A-12e-P200W	1 pair
Fiber holder (16 fiber rollable ribbon, 200um fiber coating)	S712A-16e-P200	1 pair

Fiber Guide V Groove

Item	Model No.	Qty
Single Fiber guide V-groove	FVG-01-P250	1
0.25mm pitch Fiber guide V-groove (4 fiber)	FVG-04-P250	1
0.25mm pitch Fiber guide V-groove (8 fiber)	FVG-08-P250	1
0.25mm pitch Fiber guide V-groove (12 fiber)	FVG-12-P250	1
0.2mm pitch Fiber guide V-groove (12 fiber)	FVG-12-P200	1
0.2mm pitch Fiber guide V-groove (16 fiber)	FVG-16-P200	1

Contact Information For additional information please contact your sales representative. You can also visit our website at www.lightera.com or call 1-888-FIBERHELP (1-888-342-3743) USA or 1-770-798-5555 outside the USA. For a full list of our certifications, visit our website.

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