

# FITEL NINJA NJ001

NEW



## Handheld, Single Fiber Fusion Splicer

The FITEL NINJA NJ001 Handheld, Single Fiber Fusion Splicer delivers fast and reliable fiber splicing under even harsh environmental conditions. Combining portability and ease of use in a ruggedized body, the NJ001 offers powerful splicing performance with the durability needed for use in the field.

While the NJ001 design is compact and low profile, its large battery capacity helps save on time by allowing 100 splicing and heating cycles in one charge. Offering consistent splicing and outstanding ease of use, the NJ001 is suitable for use with all Metro, LAN and FTTX fibers (including ultra-bend insensitive fibers).

Dust  
Resistant

### Enhanced Ease of Use

The NJ001 features a proportionately wide splicing chamber for easier fiber loading.

When compared with the S123C unit, the NJ001 offers 400% more space around the fiber holders, making this one of the most user-friendly splicers available.

Water  
Resistant

### Improved Visibility

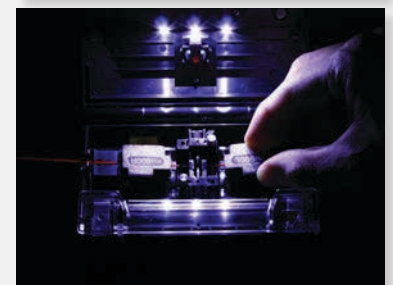
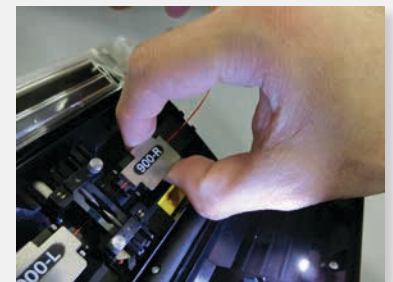
Three LED lights illuminate the entire splicing chamber with more than 300 Lux. This light intensity improves visibility, making it easier to perform work in low-light environments. In addition, the light on the V-groove is 600% brighter than that of the S123C unit.

Wind  
Resistant

### Industry-First Detachable V-Groove

The NJ001's V-groove is detachable for easy cleaning and optimal maintenance.

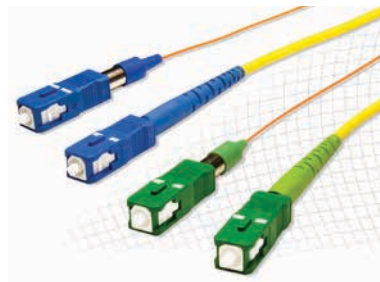
5 Axis  
Shock



## Features

- **Wider splicing chamber** for easier fiber loading
- **Three LED Lamps** - Enhanced illumination for easier splicing in low-light environments
- **High propulsion motor** - A powerful motor with a propulsion of 8N helps ensure stable splicing even for highly rigid cables including drop and indoor cables
- **Ruggedized design** - The ruggedized body is designed to endure shocks and impact along with exposure to water and dust
- **Compatibility with Splice-on-Connector (SOC)** - The detachable heater clamp allows work with SOC
- **100 cycles** (Splicing and Heating)<sup>1</sup>
- Available for ALL Metro/LAN/FTTX fibers, including ultra-bend insensitive fibers
- **Easy maintenance** - The industry's first detachable V-groove allows ease of cleaning and maintenance. The NJ001 also features toolless electrode replacement and a mirror-free alignment system.
- **PC interface software** - Easy software upgrades, splice management, program editing and export of splice results
- **Auto Start Function** - Heating and splicing processes

## Compatible with Splice-on-Connectors



### FITEL Splicer SOC partners



## Under Tough Environments

- **Drop resistant** – 76 cm drop tests from 5 different angles<sup>4</sup>
- **Water resistant** – Equivalent to IPX2 rating drip proof<sup>4</sup>
- **Dust resistant** – Equivalent to IP5X rating dust proof<sup>4</sup>

<sup>1</sup> In semi-auto splicing mode and regular heating mode

<sup>2</sup> "fis" is a registered trademark of Fiber Instrument Sales, Inc.

<sup>3</sup> Seikoh Giken is a registered trademark of SEIKOH GIKEN CO., LTD

<sup>4</sup> Standard operations could be properly carried out after having conducted the above tests. These tests were performed at the Furukawa Electric Lab with no significant damage. This does not guarantee that the machine will always be undamaged under these conditions



Drop Resistant



Water Resistant



Dust Resistant

## SPECIFICATIONS

<b>Applicable Fibers</b>	SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653), NZD (ITU-T G655), BIF/UBIF (Bend Insensitive Fiber ITU-T G.657)
<b>Cladding Diameter</b>	125 $\mu$ m
<b>Coating Diameter</b>	250 ~ 900 $\mu$ m
<b>Fibers Cleave Length</b>	5 to 10 mm or 16 mm
<b>Average Splice Loss</b>	SM: 0.05 dB, MM: 0.02 dB, DSF 0.08 dB, NZD 0.08 dB, BIF/UBIF: 0.05 dB
<b>Splice Time</b>	13 seconds
<b>Heat Time</b>	17 seconds (40 mm sleeve <sup>5</sup> ) , 20 seconds (60 mm sleeve <sup>5</sup> ) (Pre-heat mode <sup>5</sup> ) 31 seconds (S922: 40 mm sleeve, S921: 60 mm sleeve) (Regular mode <sup>6</sup> )
<b>Splice Programs</b>	Max. 150
<b>Heat Programs</b>	Max. 30
<b>Automatic Heating Start</b>	Available
<b>Applicable Sleeves</b>	20/40/60 mm
<b>Fiber Holder</b>	Tight holder (Loose tube applicable) or Removal fiber holder system
<b>Tension Test</b>	1.96 N
<b>Splice Return Loss</b>	60 dB or more
<b>Fiber Image Magnification</b>	58X
<b>Splice Memory</b>	Max. 1500
<b>Image capture Capacity</b>	Last 100 images to be automatically captured + Up to 24 images to be stored permanently
<b>Dimension</b>	124W $\times$ 161D $\times$ 64.5H mm (not including rubber pad) 139W $\times$ 176D $\times$ 71H mm (including rubber pad)
<b>Weight</b>	970 g (with battery)
<b>Monitor</b>	3.5" color LCD monitor
<b>Propulsion (motor)</b>	8 N (Designed value)
<b>Data Output</b>	USB ver. 2.0 mini
<b>Battery Capacity</b>	Typically 100 splice/heat cycles <sup>7</sup>
<b>Wind Protection</b>	Max. wind velocity of 15 m/s.
<b>Operating Temperature</b>	-10° to +50°C (without excessive humidity)
<b>Storage Temperature</b>	-40° to +60°C (without excessive humidity)
<b>Humidity</b>	0 to +95% RH (non condensing)
<b>Power Source</b>	AC input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V without any change of hardware

<sup>5</sup> The heating time may vary depending on the type of sleeves.

<sup>6</sup> The first heating cycle after turning the power on can be longer than the standard heating time.

<sup>7</sup> The number of splicing and heating cycles the machine can perform with a fully charged battery at 20°C in semi-auto splicing mode and regular heating mode. The number of cycles may vary depending on the battery status and operating conditions.

## STANDARD PACKAGE

Item	P/N	Quantity
① FITEL NINJA NJ001 Main body (including battery)	NJ001-X-A-0001	1
② Hard Carrying Case	HCC-03	1
③ Spare Electrodes	ELR-01	1 pair
④ AC Adapter	S978A	1
⑤ AC Cable Cord	—	1
⑥ Electrode Sharpener	D5111	1
⑦ Cleaning Brush	VGC-01	1
User Manual (CD)	UMC-01	1
User Manual	FTS - 347	1



## OPTIONAL COMPONENTS

Item	P/N	Quantity	
❶ Cooling Tray	CTX-01	1	
❷ USB Cable	USB-01	1	
❸ Battery Pack	S946	1	
❹ Tight Holder:	16 mm Cleave length	S712T-016	1 pair
	10 mm Cleave length	S712T-010	1 pair
❺ Fiber Holder:	160 μm coated fiber	S712S-160	1 pair
	250 μm coated fiber	S712S-250	1 pair
	500 μm coated fiber	S712S-500	1 pair
	900 μm coated fiber	S712S-900	1 pair
❻ Fiber Holder:	Loose Tube Fiber (Left side)	S712S-LT-L	1
	Loose Tube Fiber (Right side)	S712S-LT-R	1
❼ SOC Holders			
<For Ferrule>			
	Seiko Giken FC/SC connector (9 mm)	S712C-SGS9-L	
	Seiko Giken FC/SC connector (5 mm)	S712C-SGS5-L	
	Seiko Giken LC connector (9 mm)	S712C-SGL9-L	1
	Seiko Giken LC connector (5 mm)	S712C-SGL5-L	1
	Seikoh Giken TOUCH Plus SC connector (9mm)	S712C-SGS9C-R	1
	Diamond E-2000/F-3000™ LC/SC connector	S712C-DM25-L	1
<For Cordage>			
	Seiko Giken Cordage (5 mm)	S712C-SGC5-R	1
	Seiko Giken Cordage (9 mm)	S712C-SGC9-R	1
	Diamond Cordage (5 mm)	S712C-DMC5-R	1
❽ Drop/Indoor Cable Holders	Drop/Indoor Cable Holder	S712S-1SM-D	1 pair
	Low-friction Indoor Cable Holder	S712S-1SM-ST	1 pair
❾ Fiber and Cordage Common Holder	Smart Fuse	SF-01	1
	Software Interface for Machine		

## Ordering Information

Code	Description
NJ001-1-V1	Splicer with 16 mm Fiber Holder S712T-016
NJ001-2-V1	Splicer with 10 mm Fiber Holder S712T-010
NJ001-2-EX-10-V1	Splicer with cleaver, S712T-010 holder, S211B stripper, S943B battery, wipes and fluid
NJ001-EX-900-V1	Splicer with cleaver, S712S-250 and S712S-900 fiber holders, S211B stripper, S943B battery, wipes and fluid

### Contact Us:

#### Fusion Splicer Customer Service, Training and Service Center

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For additional information please contact your sales representative. You can also visit our website at:

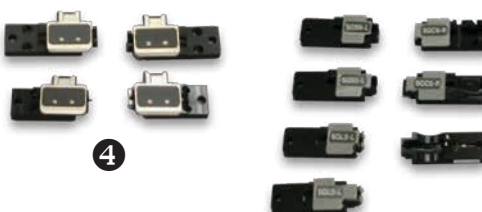
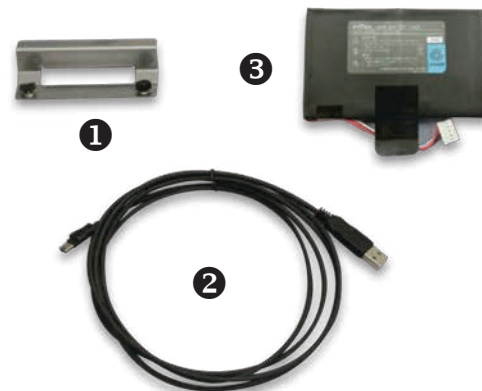
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