

FITEL Ninja

Handheld, Single Fiber Fusion Splicer



Features and Benefits

- **Enhanced Ease of Use** - The Ninja features a wide splicing chamber for easier fiber loading. When compared with previous models, the Ninja offers 400% more space around the fiber holders.
- **Excellent Visibility:** Three LED lights illuminate the entire operation chamber with more than 300 Lux. The intense bright light is critical aid for performing connector terminations in low-light environments which are commonly encountered during MDU/ SFU installations.
- **Industry-First Patented Removeable V-Groove:** The Ninja features a detachable V-groove for the field easy cleaning and optimal maintenance, which reduces downtime and achieve optimal performance with the industry's only removeable v-groove! Clean in just minutes with no tools required.



Overview

The FITEL Ninja is a handheld connector termination tool that delivers fast and reliable splicer even under the toughest of situations. Combining portability in a ruggedized body, the Ninja offers powerful performance and accessibility needed in any MDU (Multi Dwelling Unit) and SFU (Single Family Unit) installation.

This industry-first tool is dedicated for SOC solutions and is a must have for any splicing project. FITEL Ninja's powerful motors and simple operation can guarantee high quality, repeatable results. The Ninja and SOC's combine to provide optical loss performance and yield superior to mechanical connectors. It's easy to see how this saves both time and money. With its large battery capacity, it can achieve 100 splice/heating cycles on a single charge giving you portability without sacrificing performance.

Product Description

While the NINJA 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 NINJA is suitable for use with all Metro, LAN and FTTH fibers (including ultra-bend insensitive fibers).

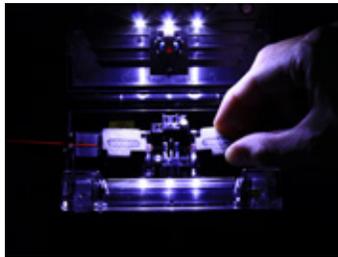
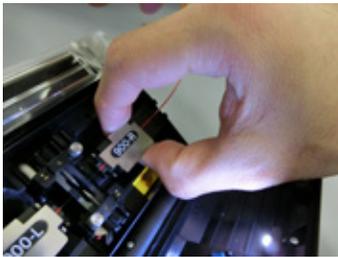


A Furukawa Company

Authorized Distributor of FITEL Products
in the Americas

Other Features

- **Wider Operational Chamber:** Enlarged operational space for easier fiber loading
- **Three LED Lamps:** Enhanced illumination for easier operation 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:** Ruggedized body designed to endure harsh environments
- **Compatibility with Multiple Vendors' SOC:** AFL's FuseConnect™, Corning's FuseLite® and Sumitomo's Lynx-CustomFit™
- **Large Battery Capacity:** Capable of 100 termination/heating cycles
- **Suitable for Wide Applications:** Available for FTTx fibers, including ultra-bend insensitive fibers, and other installation related work
- **Easy Maintenance:** Toolless removable V-groove, electrode replacement and a mirror-free alignment system make maintenance easy
- **PC Interface Software:** Easy software upgrades, splice management, program editing and export of splice results



Under Tough Environments

- Drop resistant – 76 cm drop tests from 5 different angles *
 - Water resistant – IPX2 rating *
 - Dust resistant – IP5X rating *
- * 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

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

Fitel Ninja

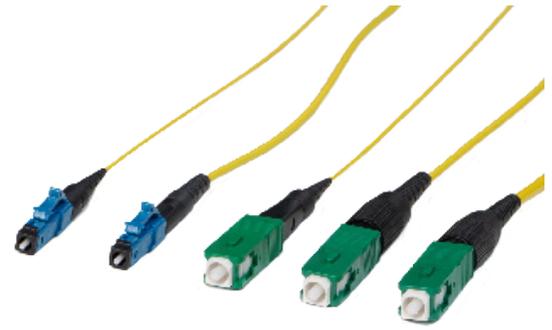
Optional Components		
Item	P/N	Quantity
Cooling Tray	CTX-01	1
USB Cable	USB-01	1
Battery Pack	S946	1
16 mm Cleave length Tight Holder	S712T-016	1 pair
10 mm Cleave length Tight Holder	S712T-010	1 pair
160 µm coated Fiber Holder	S712S-160	1 pair
250 µm coated Fiber Holder	S712S-250	1 pair
500 µm coated Fiber Holder	S712S-500	1 pair
900 µm coated Fiber Holder	S712S-900	1 pair
Loose Tube Fiber Holder (Left side)	S712S-LT-L	1 pair
Loose Tube Fiber Holder (Right side)	S712S-LT-R	1 pair
Drop/Indoor Cable Holder	S712S-1SM-D	1 pair
Low-friction Indoor Cable Holder	S712S-1SM-ST	1 pair
Cordage Common Fiber Holder	S712F-CM	1 pair
Ferrule Holder for AFL SOC (Holder for AFL SOC)	S712-SOC-LC-AF	1
Ferrule Holder for Sumi SC/FC (Holder for Sumi SOC)	S712C-SOC-SF	1
Cordage Holder for Both AFL & Sumi SC/LC (Holder for AFL/Sumi SOC)	S712-SOC-ASC	1
Ring and slit tool for EZ!fuse SOC 2/3 mm SC/LC assemblies	EZT-01	1
Splicer Scissors/ Kevlar Shear	SS-01	1 pair
Removeable V-Groove	NJA0004A	1
Spare Electrodes	ELR-01	1 pair

Standard Package		
Item	P/N	Quantity
FITEL NINJA NJ001 Main body (including battery)	NJ001-X-A-0001	1
Soft Carrying Case	SCC-03	1
Spare Electrodes	ELR-01	1 pair
AC Adapter	S978A	1
AC Cable Cord	—	1
Electrode Sharpener	D5111	1
Cleaning Brush	VGC-01	1
User Manual (CD)	UMC-01	1
User Manual	FTS - 347	1

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
NJ001-3-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



EX-900-V1 Package



EZ!Fuse Product Information

Product Characteristics	
Parameter	Description
Applicable Fiber Type	250µm, 900µm, 2mm, 3mm
Connector Type	SC, LC
Polishing	UPC or APC (SM), PC (MM)
Insertion Loss Typical	0.3dB (SM), 0.1dB (MM)
Return Loss	>60dB (SM/APC), >50dB (SM/UPC), >30dB (MM/PC)
Operating Temperature	- 40 °C to 75 °C

Ordering Information		
Product Code	Description	MOQ
FSOC-SC09-SM-U	SC connector, SM UPC polishing for 250/900µm fiber	10 connectors One S712C-SGS9C-R-P is supplied with each MOQ of 10 connectors.
FSOC-SC23-SM-U	SC connector, SM UPC polishing for 2/3mm cordage	
FSOC-SC09-SM-A	SC connector, SM APC polishing for 250/900µm fiber	
FSOC-SC23-SM-A	SC connector, SM APC polishing for 2/3mm cordage	
FSOC-SC09-M3-P	SC connector, OM3 PC polishing for 250/900µm fiber	
FSOC-SC23-M3-P	SC connector, OM3 PC polishing for 2/3mm cordage	
FSOC-SC09-M1-P	SC connector, OM1 PC polishing for 250/900µm fiber	
FSOC-SC23-M1-P	SC connector, OM1 PC polishing for 2/3mm cordage	
FSOC-SC48-SM-U	SC connector, SM UPC polishing for 4.8mm cordage	
FSOC-SC48-SM-A	SC connector, SM APC polishing for 4.8mm cordage	
FSOC-SC12-SM-U	SC connector, SM UPC polishing for 1.2mm cordage	
FSOC-SC12-SM-A	SC connector, SM APC polishing for 1.2mm cordage	
FSOC-LC09-SM-U	LC connector, SM UPC polishing for 250/900µm fiber	
FSOC-LC20-SM-U	LC connector, SM UPC polishing for 2mm cordage	
FSOC-LC09-SM-A	LC connector, SM APC polishing for 250/900µm fiber	
FSOC-LC20-SM-A	LC connector, SM APC polishing for 2mm cordage	
FSOC-LC09-M3-P	LC connector, OM3 PC polishing for 250/900µm fiber	
FSOC-LC20-M3-P	LC connector, OM3 PC polishing for 2mm cordage	
FSOC-LC09-M1-P	LC connector, OM1 PC polishing for 250/900µm fiber	
FSOC-LC20-M1-P	LC connector, OM1 PC polishing for 2mm cordage	

Required Holders	
Part Number	Description
S712C-SGS9C-R-P	SC type ferrule holder for FITELE splicer (Plastic) 1 piece is included in each MOQ 10 connectors
S712C-SGL9C-R-P	LC type ferrule holder for FITELE splicer (Plastic) 1 piece is included in each MOQ 10 connectors
S712S-250	250µm coated fiber holder for FITELE splicer
S712S-900	900µm coated fiber holder for FITELE splicer
S712C-FSOC1-L	Cordage holder for FITELE splicer
S712C-FSOC2-L	Cordage holder S179, NJ001, EZT for 0.25mm bare fiber and 1.2mm cordage

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

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OFS Marketing Communications
Doc ID: FITEL-NJ001 Date: 01/22

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