

OptiSplice™ One Handheld Fusion Splicer

A LANscape® Pretium™ Solutions Product

Applications

- Local area networks, industrial, FTTx, and telco networks
- Installation and restoration of single fibers
- Locations with limited workspace

Description

Corning Cable Systems OptiSplice™ One Handheld Fusion Splicer provides a durable, reliable and affordable splicer for single-fiber applications. The splicer, which is easy to clean, features an intuitive user interface, dual cameras, straightforward maintenance, fast heat-shrink oven, and high-capacity Li-Ion battery, all in a reduced size. Its compact size and rugged design allows it to be used in many installation settings. A variety of modular accessories are also available, including an aerial splicing platform.

Features / Benefits

- Graphical user interface (GUI) for easy menu navigation
- High-contrast, transfective LCD provides great visibility even in bright sunlight
- Ergonomic layout where the splice area, screen and keypad face the operator; the compact size allows the fusion splicers to be placed in close proximity to splice closures, pedestals, NIDs, telecommunications racks or wall outlets in tight office spaces for efficient work flow
- Fast and reliable operation
- High-capacity Li-Ion battery (200 splices with heat-shrink oven)
- Dual cameras provide a clear view of the fibers as well as allow for a splice loss estimate of the completed splice
- Fast heat-shrink oven (20 seconds per 60 mm heat-shrink)
- “Snap-in” magnetic handlers provide easy and consistent fiber placement in v-grooves, reducing complexity and rework; fiber handlers can also remain in the machine for direct fiber loading into the v-grooves



OptiSplice One Handheld Fusion Splicer | Photo SEH153



Product Specifications

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Features / Benefits (continued)

- Easy to clean, straightforward maintenance
- Robust design for use in outdoor and industrial splicing applications; the splice area cover serves as a wind protector and corners are protected by rubber bumpers
- High-intensity LEDs provide splice area illumination for use in low-light environments; the LEDs can also illuminate the interior of a splice closure, pedestal or NID, making the OptiSplice™ One Handheld FusionSplicer perfect for restoration purposes
- Factory programs and user-defined programs for common fiber types (single-mode, multimode, NZDS, etc.)
- Mini-USB interface for data output and software upgrades
- Detachable, folding screen cover doubles as an adjustable splice tray holder



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Specifications

Parameter	Specification
Principle Operation	Fixed V-groove, automatic Z-axis alignment
Fiber Coatings	250 µm and 900 µm (single fibers)
Fiber Types	Single-mode, multimode, NZDS
Typical Splice Loss	
Single-mode	≤ 0.05 dB (similar fibers), < 0.10 dB (dissimilar fibers)
NZDS	0.15 dB
Multimode	0.02 dB
Number of Programs	Factory-optimized programs for common fiber types 150 user-defined programs
Splice Loss Estimator	Lens Profile Alignment System (LPAS)
Monitor	Color 1/4 VGA transreflective LCD, 3.5 in screen (76 x 58 mm/94 mm diagonal)
Splice Protection	Heat-shrink, Splice Pak™ or Crimp & Go® Splice Protection Crimping Device
Splice Loss Storage	Approximately 10,000 splice data sets
Data Port/ Software Upgrades	mini USB 2.0
Typical Splice Time	10 sec
Heat-Shrink Oven	20 sec on 60 mm heat-shrinks (fastest in the industry)
Environmental Compensation	Automatic current optimization program, altitude compensation adjustment
Wind Protection	15 m/sec cross winds
Power	
AC	100-250 V AC, automatic voltage range selection; 50 to 60 Hz; 60 W maximum
DC	7.2 Ah 10.8 V DC rechargeable Li-Ion battery provides approximately 200 1-fiber splices with heat-shrink oven, recharge time approximately 3 hours in external charger
Operating Temperature	-10° to +50°C, at 95% relative humidity
Storage Temperature	-40° to +80°C, at 95% relative humidity
Dimensions (H x W x D)	155 x 140 x 185 mm
Weight	1.5 kg without battery, 2.0 kg with battery

Ordering Information

Part Number	Description
OS1-OSM-T-H	OptiSplice™ One Handheld Fusion Splicer with cleaver, 1 set of 250 µm handlers, fast heat-shrink oven, carrying case, 1 Li-Ion battery, external battery charger, AC power supply with US cord, operators manual (English), detachable splice tray holder/screen cover and 1-year limited warranty
OS1-XSM-T-H	OptiSplice One Handheld Fusion Splicer with 1 set of 250 µm handlers, fast heat-shrink oven, carrying case, 1 Li-Ion battery, external battery charger, AC power supply with US cord, operators manual (English), detachable splice tray holder/screen cover and 1-year limited warranty
OS1-OSM-T-P	OptiSplice One Handheld Fusion Splicer with cleaver, 1 set of 250 µm handlers, Splice Pak Protection Crimping Device, carrying case, 1 Li-Ion battery, external battery charger, AC power supply with US cord, operators manual (English), detachable splice tray holder/screen cover and 1-year limited warranty
OS1-OSM-T-C	OptiSplice One Handheld Fusion Splicer with cleaver, 1 set of 250 µm handlers, Crimp & Go Splice Protection Crimping Device, carrying case, 1 Li-Ion battery, external battery charger, AC power supply with US cord, operators manual (English), detachable splice tray holder/screen cover and 1-year limited warranty

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Accessories

Part Number	Description
FBC-006	High-Performance Single-Fiber Cleaver, one-step operation, diamond blade (typically <math><0.7^\circ</math>)
FBC-012	High-Performance Cleaver for use with single fibers or 2- to 12-fiber ribbons, one-step operation, diamond blade (typically <math>< 1^\circ</math>)
FBC-012-01	Replacement Blade for cleaver
OS1-026	Spare Electrodes for OptiSplice™ One Handheld Fusion Splicer
2806031-01	Heat-Shrink Splice Protection Parts (package of 50, 60 mm long)
OS1-001	Crimp & Go® Splice Protection Crimping Device for OptiSplice One Handheld Fusion Splicer
FSA-012	Crimp & Go Splice Protection Crimping Device Parts (package of 150)
OS1-002	Splice Pak™ Splice Protector Crimping Device for OptiSplice One Handheld Fusion Splicer
A0276859	Splice Pak Splice Protector, yellow, 250/250 μm (package of 25)
A0295149	Splice Pak Splice Protector, blue, 250/900 μm (package of 25)
A0295150	Splice Pak Splice Protector, green, 900/900 μm (package of 25)
M67-003	Fusion Splicing Tool Kit
TKT-SPLICE	Basic Fusion Splicing Tool Kit
OS-ADAPT900-1	Fiber Handler Set for coated 900 μm single-fiber
OFT-000	Optical Fiber Access Tool for midspan access
OS-LIIONBATT-1	Spare Li-Ion Battery for OptiSplice Ribbon Handheld Fusion Splicer and OptiSplice One Handheld Fusion Splicer
OS-003	Shoulder Harness and Universal Tripod Mount for both OptiSplice Ribbon Handheld Fusion Splicer and OptiSplice One Handheld Fusion Splicer, allows the splicer to be used while suspended in front of the operator or on a standard tripod mounting system; great for working at pedestals or at the side of the home
OS-004	Aerial Splicing Platform Kit, converts carrying case into an aerial work platform

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