OptiSplice™ One Handheld Fusion Splicer

A LANscape® Pretium™ Solutions Product

Applications
- Local area networks, industrial and telco networks

- Restoration and installation of single fibers

- Locations with limited workspace

- As a part of an emergency restoration plan

Description
Corning Cable Systems OptiSplice™ One Handheld Fusion Splicer provides a durable, reliable and affordable handheld splicer for single-fiber applications. The OptiSplice One features an intuitive user interface, dual cameras, tool-less 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.

OptiSplice One Handheld Fusion Splicer | Photo SEH153

Features / Benefits
- Single or 1- through 12-fiber OptiSplice Ribbon Handheld Fusion Splicer versions available

- Graphical user interface (GUI) for easy menu navigation

- High-contrast, transflective 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 splicer to be placed in close proximity to optical fiber hardware for efficient workflow

- Fast and reliable operation

- Fusion splicer case can convert into an aerial splicing platform (requires optional straps); additional accessories are available for working within a construction area

- High-capacity Li-Ion battery

- Dual cameras provide a clear view of the fibers as well as allow for a splice loss estimate of the completed splice

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Preliminary Product Specifications

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Features / Benefits *(continued)*

• Fast heat-shrink oven (20 s on 60 mm heat-shrinks)

• "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

• 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 the splicer 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 fiber optic hardware or telecommunications rooms, making the OptiSplice™ One Handheld Fusion Splicer perfect for restoration purposes

• Factory programs and user-defined programs for common fiber types (single-mode, multimode, etc.)

• Mini-USB interface for data output and software upgrades

• Detachable, folding screen cover doubles as an adjustable splice tray holder

• RoHS compliant

OptiSplice One Handheld Fusion Splicer | Photo SEH152

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Specifications

Parameter	Specification
Principle Operation	Fixed V-groove, automatic Z-axis alignment
Fiber Coatings	250 m and 900 m (single fibers)
Fiber Types	Single-mode, multimode, NZDS

Typical Splice Loss
  Lab
  Field
  MM
  NZDS
	
	≤0.05 dB identical single-mode fibers
	< 0.10 dB single-mode fibers
	0.02 dB
	0.15 dB

Number of Programs	4 factory-optimized programs (SM, MMF, NZDS) 150 user-defined programs (50 for each fiber type)
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 1-fiber 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
  DC
	
	100-250 V AC, automatic voltage range selection; 50 to 60 Hz; 60 W maximum
	7.2 Ah 10.8 V DC rechargeable Li-Ion battery provides more than 100 1-fiber splices with heat-shrink oven, recharge time approximately three 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

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Corning
Cable Systems

Ordering Information

Part Number	Description
OS1-0SM-T-H	OptiSplice™ One Handheld Fusion Splicer with cleaver, 2 sets of handlers (single-fiber 250µm and 900 µm), 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 2 sets of handlers (single-fiber 250µm and 900 µm), 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
OS1-0SM-T-C	OptiSplice One Handheld Fusion Splicer with cleaver, 2 sets of handlers (single-fiber 250µm and 900 µm), 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
OS1-OSM-T-P	OptiSplice One Handheld Fusion Splicer with cleaver, 2 sets of handlers (single-fiber 250µm and 900 µm), Splice Pak™ Splice Protector, 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 <0.7°)
FBC-012	High-Performance Cleaver for use with single fibers or 2- to 12-fiber ribbons, one-step operation, diamond blade (typically <1°)
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)
2806031-012	12-Fiber Heat-Shrink Splice Protection Parts (package of 25, 40 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 Crimp Adapter 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
OFT-000	Optical Fiber Access Tool for midspan access
TBD	OptiSplice One Handheld Fusion Splicer Replacement V-Groove
TBD	Spare Li-Ion Battery for OptiSplice Ribbon Handheld Fusion Splicer and OptiSplice One Handheld Fusion Splicer
TBD	AC Power Supply for OptiSplice Ribbon Handheld Fusion Splicer and OptiSplice One Handheld Fusion Splicer
TBD	Battery Charger for OptiSplice Ribbon Handheld Fusion Splicer and OptiSplice One Handheld Fusion Splicer
OSR-Handler-250	Fiber Handler Set for coated 250 µm single-fiber
OSR-Handler-900	Fiber Handler Set for coated 900 µm single-fiber
TBD	OptiSplice One Handheld Fusion Splicer Protective Lens Cover
TBD	Maintenance Kit for OptiSplice Ribbon Handheld Fusion Splicer and OptiSplice One Handheld Fusion Splicer
TBD	Shoulder Harness for OptiSplice Ribbon Handheld Fusion Splicer and OptiSplice One Handheld Fusion Splicer, allows the splicer to be used while suspended in front of the operator
TBD	Universal Tripod Mount allows for both OptiSplice Ribbon Handheld Fusion Splicer and OptiSplice One Handheld Fusion Splicer to be used with standard tripod mounting systems; great for working at pedestals or at the side of the home

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