

OptiSplice® One Handheld Fusion Splicer

A LANscape® Pretium®
Solutions Product

features and benefits |

Fastest total splice cycle time in the industry	11 sec splice + 20 sec heat-shrink oven (60 mm shrink) = 31 sec typical
Graphical user interface	For easy menu navigation
Ergonomic layout	Work area faces the operator and includes a removable splice tray holder
High-capacity Li-Ion battery	200 splices with heat-shrink oven typical
High-contrast, transfective LCD	Great visibility, even in bright sunlight

Corning Cable Systems OptiSplice® One Handheld Fusion Splicer is a durable, reliable and affordable splicer for restoration and installation of Enterprise, Telco, CATV and FTTx networks with single fibers. It features an intuitive user interface for easy menu navigation and dual cameras which provide a splice loss estimate of the completed splice. The high-intensity LEDs provide splice area illumination and can also illuminate the interior of a splice closure, making this splicer perfect for restoration purposes.

The high-contrast, transfective LCD provides great visibility in bright sunlight, a true benefit for outdoor splicing applications. The splice area cover serves as a wind protector and rubber bumpers protect the corners. The folding screen cover also doubles as an adjustable splice tray holder. The “snap-in” magnetic handlers provide easy and consistent fiber placement in v-grooves to reduce complexity and rework. The fiber handlers can also remain permanently in the machine for direct fiber loading.

(continued)



OptiSplice One
Handheld Fusion Splicer | Photo LAN1203



OptiSplice One
Handheld Fusion Splicer | Photo LAN1287

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The unit offers an ergonomic layout where the splice area, screen and keypad face the operator. Its compact size allows the fusion splicers to be placed in close proximity to splice closures, pedestals or NIDs for efficient workflow. There are factory-optimized programs and user-defined programs for common fiber types (single-mode, multimode, NZDS, ClearCurve®, etc.).

The unit also has a USB interface for data output and software upgrades, and is easy to clean and maintain. With a fast heat-shrink oven, this splicer is RoHS compliant and operates on a high-capacity Li-Ion battery for fast and reliable operation.



specifications |

Dimensions (L x W x H)	185 x 140 x 155 mm
Weight	With battery: 2.2 kg Without battery: 1.7 kg
Principle Operation	Fixed V-groove, automatic Z-axis alignment
Fiber Coatings	250 µm and 900 µm (single fibers)
Fiber Types	Single-mode, multimode, NZDS, and specialty fibers including ClearCurve
Typical Splice Loss	Single-mode: ≤ 0.04 dB (similar fibers), < 0.10 dB (dissimilar fibers) NZDS: ≤ 0.15 dB Multimode: ≤ 0.01 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 QVGA transreflective LCD, 3.5 in screen (76 x 58 mm/94 mm diagonal), 100x magnification, with automatic adjustments for different ambient lighting conditions
Splice Protection	Heat-shrink, Splice Pak™ or Crimp & Go® Splice Protection Crimping Device

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specifications | (continued)

Splice Loss Storage	Approximately 10,000 splice data sets
Data Port/ Software Upgrades	mini USB 2.0
Typical Splice Time	< 11 sec
Heat-Shrink Oven	20 sec on 60 mm heat-shrinks, 15 sec on 40 mm
Environmental Compensation	Automatic current optimization program from -2,000 m up to 4,000 m
Wind Protection	15 m/sec
Power	90-240 V AC, automatic voltage range selection; 50 to 60 Hz; 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
Temperature	Operation: -15° to +50°C, up to 95% relative humidity non-condensing Storage: -40° to +80°C, up to 95% relative humidity non-condensing

ordering information |

Part Number	Description
OS1-0SM-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, operator's 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, operator's manual (English), detachable splice tray holder/screen cover and 1-year limited warranty
OS1-0SM-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, operator's manual (English), detachable splice tray holder/screen cover and 1-year limited warranty
OS1-0SM-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, operator's manual (English), detachable splice tray holder/screen cover and 1-year limited warranty
OS1-0SM-T-H-BK	OptiSplice One Handheld Fusion Splicer with black housing with gray bumpers, 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, operator's manual (English), detachable splice tray holder/screen cover and 1-year limited warranty

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ordering information | (continued)

Part Number	Description
FBC-006	High-Performance Single-Fiber Cleaver, one-step operation, diamond blade (typically < 0.35°)
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 FBC-012 cleaver
OS-Electrode-1	Spare Electrodes for OptiSplice® One Handheld Fusion Splicer
2806031-01	Heat-Shrink Splice Protection Parts, 1 fiber (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

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