

OptiSplice® One Handheld Fusion Splicer

An Evolant®
Solutions Product

features and benefits |

Fastest total splice cycle time in the industry	11 second 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
Compatible with the FuseFlex™ Termination System	Quick and easy installation of reliable, low-loss FuseFlex™ connectors

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. This innovative tool features an intuitive user interface for easy menu navigation and dual cameras provide a clear view of the fibers, allowing for a splice loss estimate of the completed splice. Ideal for use in low-light environments, 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. With the high contrast, trans-reflective LCD providing great visibility in bright sunlight, the robust design is excellent 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

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in V-grooves to reduce complexity and rework. The fiber handlers can also remain permanently in the machine for direct fiber loading. The unit is easy to clean and maintain. The OptiSplice® One Handheld Fusion Splicer 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® fiber, etc.). The unit has a USB interface for data output and software upgrades. 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.

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OptiSplice One Handheld Fusion Splicer Kit
in a soft case | Photo FOJP0055

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specifications |

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
Splice Loss Storage	Approximately 10,000 splice data sets
Data Port/ Software Upgrades	mini USB 2.0
Typical Splice Time	< 11 seconds
Heat-Shrink Oven	20 seconds on 60 mm heat-shrinks
Environmental Compensation	Automatic current optimization program, 15 seconds on 40 mm from -2,000 m up to 4,000 m
Wind Protection	15 m/sec
Power AC DC	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	Operating: -15° to +50°C, up to 95% relative humidity non-condensing Storage: -40° to +80°C, up to 95% relative humidity non-condensing
Dimensions (H x W x D)	155 x 140 x 185 mm
Weight	1.7 kg without battery, 2.2 kg with battery

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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, operators manual (English), detachable splice tray holder/screen cover and 1-year limited warranty
OS1-0SM-B-H	OptiSplice One Handheld Fusion Splicer with cleaver, 1 set of 250 µm handlers, fast heat-shrink oven, soft 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
OS1-0SM-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, 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, 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
FBC-006	High-Performance Single-Fiber Cleaver, one-step operation, diamond blade (typically < 0.35°)
FBC-006-H	High-Performance Single-Fiber Cleaver that accepts OptiSplice One fiber handlers, 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 (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)

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ordering information | (continued)

Part Number	Description
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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ordering information | (continued)

Part Number	Description
FuseFlex™ Termination System	

Tool Kit and Accessories

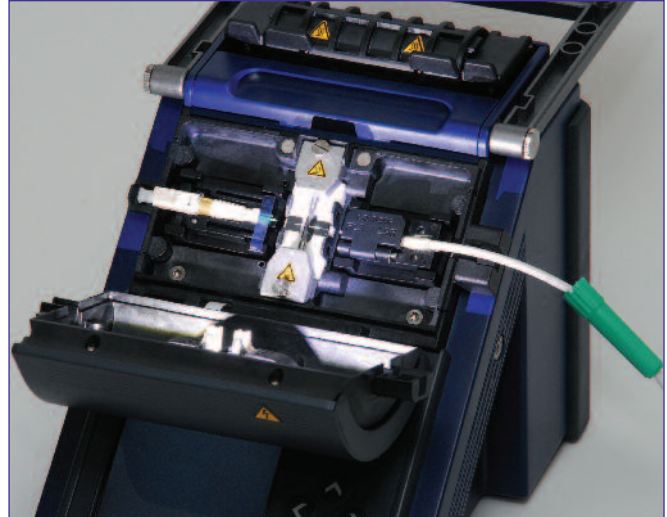
TKT-FUSEFLEX-OS1	FuseFlex™ Termination System Tool Kit for the OptiSplice One Fusion Splicer. Please note that FuseFlex compatible OS1 splicers have guide pins that extend through the fiber handlers.
FFLX-TOOL	FuseFlex Termination System Installation Tool

FuseFlex Connector Parts

FFLX-JCKT-SCA	FuseFlex Connector, Jacketed Cable, SC APC
FFLX-JCKT-SCA-48	FuseFlex Connector, 4.8 mm Jacketed Cables, SC APC
FFLX-JCKT-SCU	FuseFlex Connector, Jacketed Cable, SC UPC
FFLX-JCKT-SCU-48	FuseFlex Connector, 4.8 mm Jacketed Cables, SC UPC
FFLX-JCKT-FCU	FuseFlex Connector, Jacketed Cable, FC UPC
FFLX-JCKT-FCU-48	FuseFlex Connector, 4.8 mm Jacketed Cables, FC UPC



FuseFlex Termination System | Photo FOJP034



FuseFlex Connector installation in OS1 | Photo FOJP049

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notes |

TRAINING | SPlice AND TEST EQUIPMENT | COPPER CONNECTIVITY | HARDWARE | CABLE ASSEMBLIES | CONNECTORS | CABLES | PRETERMINATED SYSTEMS

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notes |

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA
800-743-2675 • FAX: 828-901-5973 • International: +1-828-901-5000 • www.corning.com/cablesystems

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