

LANscape® Solutions Splice and Test Equipment



CORNING

LANscape®
Solutions

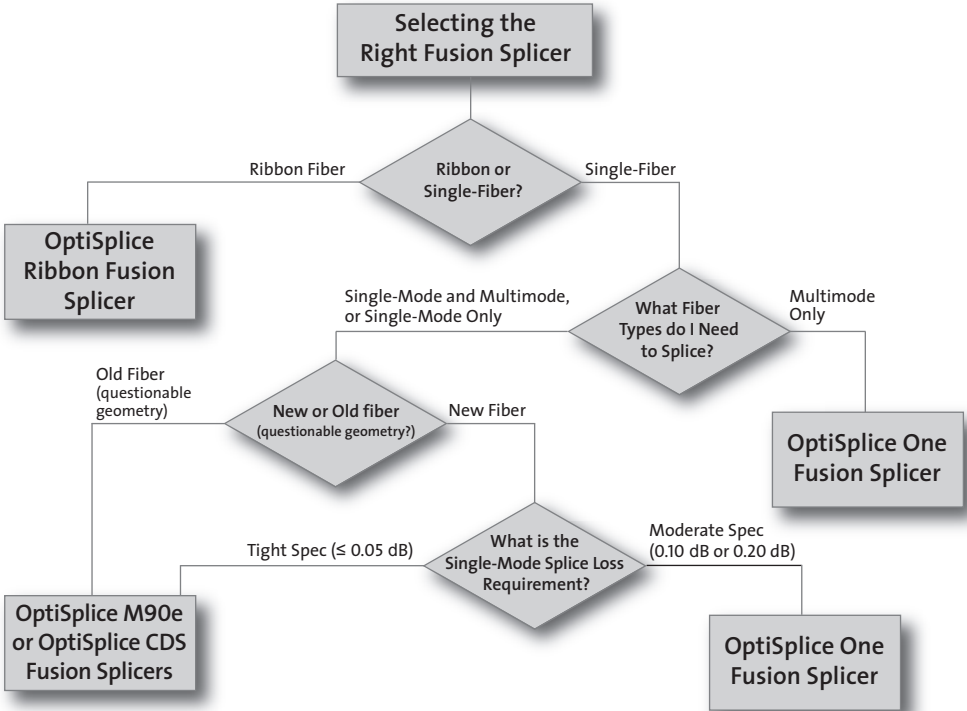
Model Number	OptiSplice® M90e	OptiSplice CDS	OptiSplice Ribbon	OptiSplice One
				
Part Number	M90E-05M-T-H	OSCD5-05M-T-H	OSR-05M-T-H	OS1-05M-T-H
Typical single-mode loss (dB)*	0.02	0.02	0.04	0.04
Fiber alignment method	Core (LID) and CDS	Core CDS	V-Groove	V-Groove
Splice loss estimation	Measurement (LID)	Estimate (CDS)	Estimate (LPAS)	Estimate (LPAS)
Number of fibers	Single	Single	Multiple (1-12)	Single
Auto fusion time control	●			
On-board interactive training video	●	●	●	●
Touch screen	●	●		
Tilt base	●	●		
Built-in GPS system	●	●		
Maintenance-free electrodes (P&D)	●	●		
Fast heat-shrink oven	●	●	●	●
Graphical user interface (GUI)	●	●	●	●
User-installable software upgrades	●	●	●	●
One-step cleaver	●	●	●	●
Diamond cleaver blade	●	●		●
FuseFlex™ Connector Compatible			Special Order†	●
Automatic compensation for environmental influences	●	●	●	●
Splice tray holder	●	●	●	●
Work lamp/splice area illumination	●	●	●	●
Programs for standard and specialty filters	●	●	●	●
Typical battery life with heat-shrink oven	130	130	130, 12F	250
Typical total splice cycle time (splice time plus oven)	33 sec (CDS)	33 sec	60 sec	31 sec
Splice loss data storage	10,000 with GPS	10,000 with GPS	10,000	10,000

*Typical loss for identical single-mode fiber

†OptiSplice Ribbon can have this option, but will be non-standard.

Determine the Best Fusion Splicer for the Application.

Corning Cable Systems is a worldwide leader in splice equipment technology, offering a complete line of products comprised of coordinated units designed to meet the different requirements of various applications. Fusion splicing is the most accurate and durable method of permanently interconnecting optical fibers. The OptiSplice® Fusion Splicer product family utilizes the most advanced fusion splicing technology on the market, while offering easy operation and maintenance.



OptiSplice® M90e Fusion Splicer (M90E-OSM-T-H)

The OptiSplice M90e Fusion Splicer is the ideal machine for networks where low-loss performance and high-end accuracy are imperative. The M90e Fusion Splicer offers the active core-alignment accuracy of Corning Cable Systems LID-SYSTEM™ Unit, along with the speed and versatility of a passive core-alignment technology known as the core detection system (CDS). The M90e provides the most advanced set of features available, yielding top notch performance while reducing training and maintenance costs, all in a compact, user-friendly fusion splicer.



- Equipped with both LID-SYSTEM Unit and CDS 3-axis core-alignment technologies
- Utilizes automatic fusion time to optimize each splice (LID-SYSTEM)
- Loss measurement provided at end of splice (LID-SYSTEM)
- Maintenance-free, precise and durable electrodes for 7,000 splices
- Touch screen with graphical user interface
- Built-in interactive training videos
- Fastest total splice cycle time in the industry
- Ultrafast heat-shrink oven (15 seconds on 40 mm sleeve; 20 seconds on 60 mm sleeve)
- Two USB ports for easy data output and upgrades
- Integrated GPS system automatically adjusts for altitude changes and allows storing of splice location coordinates
- High-capacity internal battery good for 130 splice cycles

OptiSplice CDS Fusion Splicer (OSM-T-H)

The OptiSplice CDS Fusion Splicer is the ideal machine for networks where low-loss performance is imperative. Ideal for long-haul, CATV, telco and LAN applications, it can accurately splice current, legacy, dissimilar and specialty fiber types. The OptiSplice CDS Fusion Splicer offers the speed and versatility of a video-camera-based core-alignment technology known as the core detection system (CDS). The CDS works on both 250 and 900 micron fibers and offers the fastest total splice cycle time on the market for a core-alignment fusion splicer. The ultrafast heat-shrink oven requires only 20 seconds heating time on industry-standard 60 mm heat-shrinks.



- Maintenance-free, precise and durable electrodes for 7,000 splices
- Touch screen with graphical user interface
- Built-in interactive training videos
- Fastest total splice cycle time in the industry
- Ultrafast heat-shrink oven (15 seconds on 40 mm sleeve; 20 seconds on 60 mm sleeve)
- Two USB ports for easy data output and upgrades
- Integrated GPS system automatically adjusts for altitude changes and allows storing of splice location coordinates
- High-capacity internal battery good for 130 splice cycles

OptiSplice® One Handheld Fusion Splicer (OS1-OSM-T-H)

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 allow it to be used in many installation settings. Modular accessories are also available, including a shoulder harness.



- Fastest total splice cycle time in the industry
- Graphical user interface
- Ergonomic layout
- High-capacity Li-Ion battery
- High-contrast, transfective LCD screen
- Fixed V-groove fiber alignment
- FuseFlex™ termination system compatible
- Interactive training videos

OptiSplice Ribbon Handheld Fusion Splicer (OSR-OSM-T-H)

Corning Cable Systems OptiSplice Ribbon Handheld Fusion Splicer provides a sturdy and reliable high-performance splicer for ribbon fiber applications. The innovative splicer 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 allow it to be used in many installation settings. A variety of modular accessories are also available.



- For use with 2-, 4-, 6-, 8- or 12-fiber ribbons or single fibers
- Graphical user interface
- High-contrast, transfective LCD
- Ergonomic layout in a compact size
- Fast and reliable operation
- High-capacity Li-Ion battery
- Dual cameras provide clear fiber view and accurate splice loss estimate
- Interactive training videos

Corning Cable Systems Fusion Splicing Tool Kits and Cable Access Tools

Corning Cable Systems tool kits provide the craft persons with a collection of essential tools required for tasks associated with fusion splicing. The tools used in the kits are thoughtfully assembled and are stored in high-quality cases, keeping them safe, neat and in proper working order. Our tool kits include:

Advanced Tool Kit for the Fiber Optic Installation Professional (TKT-FIBERTECH-PRO)

This kit, with a pop-up handle and wheels, was designed by contractors, for contractors. It includes tools for preparing fiber optic cables, splice closures and fiber optic hardware. The kit also includes cable cleaners, a first aid kit, LED head lamp, safety vest, safety glasses and gloves. Contents: LST-000-060.



Basic Fusion Splicing Tool Kit (TKT-SPLICE)

This kit contains tools necessary for end-access of buffer tubes to prepare for splice. This is for craft persons who perform only splicing, not cable prep.



Ribbon Midspan Tool Kit (TKT-FTTX-RIBBON)

This kit is designed for performing a midspan access of a ribbon cable. This includes opening the ribbon cable jacket, performing a midspan on the central tube (5-24 mm), and splitting a ribbon into smaller ribbons.



Loose Tube Cable Midspan Tool Kit (TKT-FTTX-LT)

This kit contains tools required to perform a midspan access on a loose tube cable, including the opening of a small buffer tube (2.4 - 2.6 mm).

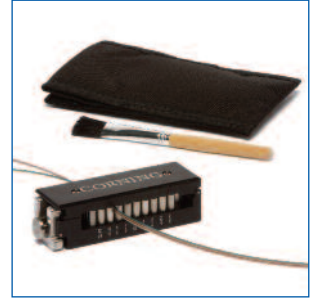
Fiber Organizer Tape Applicator “Ribbonizer” Tool Kit (TKT-026-01A)

Corning Cable Systems Fiber Organizer Tape Applicator (FOTA) is designed for fast and easy preparation of loose tube optical fibers for mass fusion splicing. With the FOTA's ribbonizing fixture and associated tools, users can prepare approximately 6 in of ribbonized fibers for mass fusion splicing quickly and easily with no messy glues.

Corning Cable Systems Fusion Splicing Tool Kits and Cable Access Tools

Ribbon Splitting Tool (RST-000)

The ribbon splitting tool is designed to allow separation of 12-, 24- and 36-fiber ribbons into smaller ribbons. Multiple slots on the tool offer the ability to separate the original ribbon into two different ribbons with varying fiber counts. The tool has slots to separate the ribbon into the following smaller ribbon fiber counts: 2/2, 2/4, 2/6, 4/4, 2/10, 4/8, 6/6, 12/12 and 12/24.



Ripcord Puller (RPOC-001)

The ripcord puller for outdoor cable tool, when used with a suitable cordless screwdriver, can easily pull ripcords through the sheath and/or steel tape armor found in most outdoor fiber optic cables.



Universal Access Tool (UAT3-000)

The universal access tool (UAT3) simplifies a midspan access on any Corning Cable Systems single-tube fiber optic cable product, including ribbon cable. Unlike other access tools requiring strength and awkward handling, the UAT3's design allows controlled movement for 5 to 24 mm tubes.



Optical Fiber Access Tool (OFT-000)

The optical fiber access tool (OFAT) is designed to provide midspan fiber access in standard Corning Cable Systems ALTOS® Cables. This rugged hand tool will accommodate buffer tubes from 2.4 to 3.0 mm.

No-Slack Optical Fiber Access Tool (NFT-000)

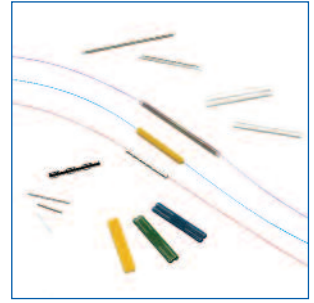
The no-slack optical fiber access tool (NOFAT) is suitable for locations where no cable slack can be obtained and the buffer tubes must be accessed while remaining wrapped around the central member. The NOFAT's unique design allows buffer tubes to be entered in this situation. The NOFAT is compatible with standard Corning Cable Systems ALTOS Cable buffer tube sizes.

Fusion Splice Protection

Corning Cable Systems offers a variety of splice protection choices to meet your needs. All the types of protection allow individual fiber access in the splice tray. Corning Cable Systems offers heat-shrink protection in both single-fiber and multifiber versions.

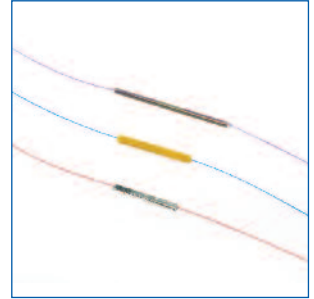
Heat-Shrink Single-Fiber or Multifiber Splice Protector

The sleeve securely protects the fusion splice on either 250 or 900 μm coated fibers, while offering individual access to each fusion splice. Corning Cable Systems Heat-Shrink Sleeves are compatible with most splice trays offered and are compatible with all heat-shrink ovens offered with Corning Cable Systems Fusion Splicers.



Splice Pak™ Single-Fiber Splice Protector

The Splice Pak Splice Protector is a cost-effective alternative to the heat-shrink protective sleeve. It is a plastic clamshell design with an adhesive applied to the inside surface. The Splice Pak Splice Protector requires no power for assembly, thus extending the battery life of the fusion splicer.



Crimp & Go® Single-Fiber Splice Protector

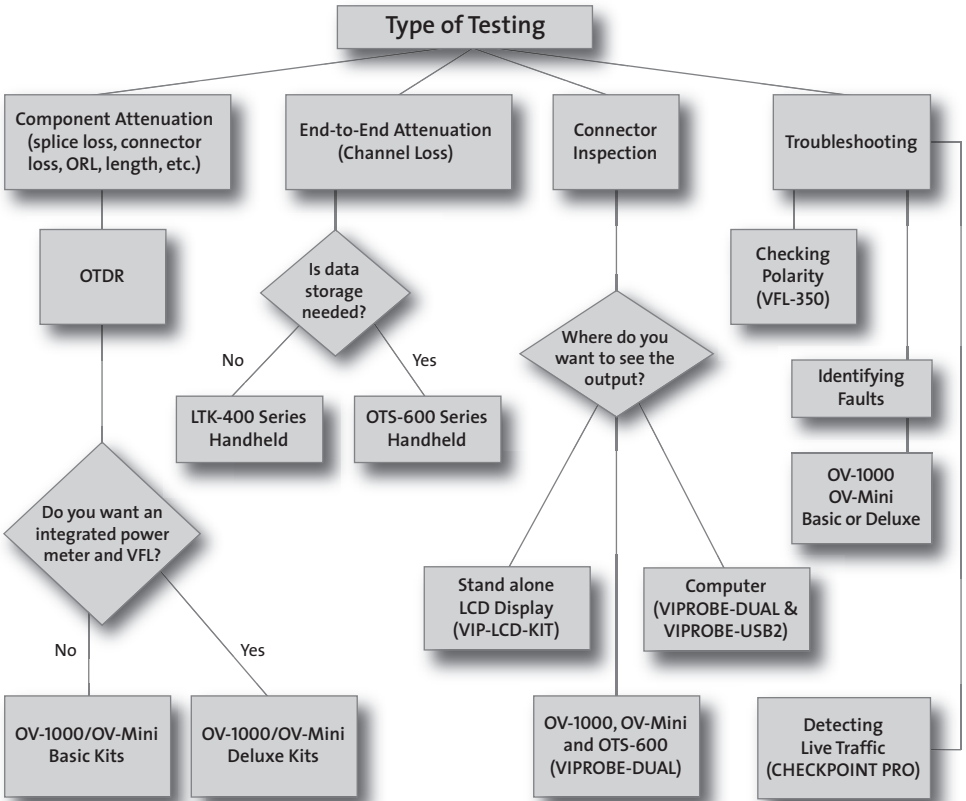
The Crimp & Go Splice Protector encloses the splice within an aluminum sleeve sealed with an elastic material. Like the Splice Pak Splice Protector, the Crimp & Go Splice Protector requires no power for assembly.

Ordering Information

Part Number	Description
2806031-01	Heat-Shrink Fusion Splice Protector Parts, single-fiber (package of 50; 60 mm long)
2806032-01	Heat-Shrink Fusion Splice Protector Parts, single-fiber (package of 50; 40 mm long)
2806031-04	Heat-Shrink Mass Splice Protector Parts, 2- or 4-fiber ribbon (package of 25; 40 mm long)
2806031-012	Heat-Shrink Mass Splice Protector Parts, 6- or 12-fiber ribbon (package of 25; 40 mm long)
FSA-012	Crimp & Go Splice Protection Crimping Device Parts (150/pack)
A0276859	Splice Pak Splice Protector, yellow, 250/250 μm (25/pack)
A0295149	Splice Pak Splice Protector, blue, 250/900 μm (25/pack)
A0295150	Splice Pak Splice Protector, green, 900/900 μm (25/pack)

Note: Heat-shrink ovens and crimping tools can be ordered separately. Please contact your Corning Cable Systems Customer Service Representative for details.

Determine the Best Test Equipment for the Application



OTS-600 Series Optical Test Set (OTS-6MDS)

The Corning Cable Systems OTS-600 Series Optical Test Set is ideal for optical network certification. The unit is designed for testing and troubleshooting various telecommunication networks, with ease of use achieved using a large color LCD screen, soft-key menus and a loss certification wizard. While maintaining all the functionality expected from an optical tester, data entry and navigation have been simplified with a keypad similar to a cell phone.



- Large LCD screen and soft-key menus
- Auto wavelength switching and detection
- Source and meter in one unit
- USB data ports

LTK-400 Series Optical Test Set (LTK-4MDSD)

Corning Cable Systems LTK-400 Series Optical Test Set offers a complete, cost-effective solution for link-loss testing of both multimode and single-mode systems for those users who do not require data storage capabilities. The LTK-400 offers unparalleled performance by combining a source that has one of the highest output powers in the industry with a meter that has 10 calibrated wavelengths. The units can be powered by standard AA alkaline batteries, or by the supplied AC power adapters.



- High output power and calibrated wavelengths
- Product warranty and calibration interval
- Rugged handheld design
- Packaged as test kits

Video Inspection Probe (VIPROBE-DUAL)

This handheld analog video inspection probe is the ideal solution for inspecting the quality of a fiber optic connector end-face. The resulting images can be used to document end-face quality and cleanliness, since the coaxial illumination provides a clear view of end-face condition.



- National Television System Committee (NTSC) video output format for high-level analog video quality
- Coaxial illumination provides clear view of end-face condition
- Thumb-wheel design for easy, one-hand operation
- Connection to OTS-600, OV-MINI and OV-1000s platform eliminates need for an external monitor

OV-1000 Optical Time Domain Reflectometer (1000DK-MDSD)

Corning Cable Systems OV-1000 Optical Time Domain Reflectometer (OTDR) provides testing flexibility by combining a rugged platform with field-interchangeable multimode, single-mode and advanced testing modules. All OTDR modules can be used as continuous wave (CW) light sources. A power meter and visual fault locator (VFL) are available as options on the mainframe.



- Windows® CE technology for fast power-up time from sleep mode
- 80 MB internal flash memory
- USB ports and compact flash slot
- Rugged and water/chemical resistant

OV-MINI Optical Time Domain Reflectometer

Corning Cable Systems OV-Mini Optical Time Domain Reflectometer (OTDR) provides a rugged, handheld and lightweight solution for testing and troubleshooting fiber optic networks. This handheld OTDR gives the operator the flexibility of testing single-mode and 50 and 62.5 μm multimode systems with the same unit.



- One-touch testing for top user-friendliness
- USB port (memory-stick compatible)
- Stores up to 500 results
- Clear results under bright sunlight
- Superior automated analysis

OTDR Launch Fiber, Access Jumper

Corning Cable Systems offers two OTDR launch cable solutions created with high-quality Corning® optical fiber and cable assemblies. Used for connecting between the OTDR and system-under-test, these solutions can also be used on the far end of the system-under-test as a receive fiber. Both options come with a wide variety of configurations depending on customer application. The first solution is a small, portable test bag (PTB) that offers a low cost, compact launch cable and can be placed inside most OTDR transit cases. The second option is a portable test fiber case (PTF), which offers a ruggedized, easy-to-configure solution. The rugged construction allows for shipment of the launch cable separate from the OTDR case.



- Multimode and single-mode fiber types
- Jumper lead storage
- 6 ft jumper leads

Network Simulation System

Corning Cable Systems Optical Network Simulation Systems are designed with the end-user in mind. Conveniently packaged in an easy-to-install rack-mountable hardware, the systems are compact and provide excellent protection for the stored optical fiber. The housing contains one or more spools of optical fiber with connectorized ends for easy access. The larger, rack-mountable systems offer multiple length combinations in one housing to minimize excess fiber and space waste.



- Small, handheld box or compact, rack-mountable cabinet
- Multiple fiber and connector types available

VFL-350 Visual Fault Locator (VFL-350)

The visual fault locator (VFL) is a compact, pen-design fault locator used to check single-mode and multimode optical fiber cables and components for faults or to locate individual fibers in a bundle. By transmitting a bright beam of red light into a fiber, breaks or improper terminations can be seen as a glowing red light. This device fits all 2.5 mm connector ferrules, with an optional 1.25 mm adapter for LC connectors.



- Checks multimode and single-mode fibers
- Glowing red light makes it easy to detect breaks or improper termination
- Rugged compact design for daily onsite use

CheckPoint™ Pro

The Checkpoint™ PRO is a lightweight, handheld, easy-to-use tool to safely and effectively identify the transmission direction, fiber path and relative core power on live optical fibers.

The Checkpoint PRO uses the super-low insertion loss local detection method of macrobending. This allows for detection of the optical signals during installation and maintenance without disconnecting the fiber, opening the cable or interrupting the traffic signal.



- No changing or adjustments for fiber type
- Tone signal testing
- Detects the signal without disrupting traffic
- Lightweight for easy handling

Many splice and test equipment options are available, including high value kits that combine multiple items in one.



TKT-UNICAM-TEST



CONTRACTOR-COMBO



MINI-XK



HANDHELD COMBO



MINI XK-TK

Ordering Information

Part Number	Description
Splice Equipment	
M90E-0SM-T-H	M90e Fusion Splicer with FBC-006 Cleaver, carrying case with wheels, fast heat-shrink oven, splice tray holder, AC power supply with US cord, Li-Ion battery with external charger, 1-year limited warranty, operator's manual, USB worklight, maintenance tool kit
OSCD5-0SM-T-H	OptiSplice® CDS Fusion Splicer with FBC-006 Cleaver, carrying case with wheels, fast heat-shrink oven, splice tray holder, AC power supply with US cord, Li-Ion battery with external charger, 1-year limited warranty, operator's manual CD, USB worklight, maintenance tool kit
OS1-0SM-T-H	OptiSplice One Handheld Fusion Splicer with cleaver, 1 set of 250 μm handlers, fast heat-shrink oven, carrying case, Li-Ion battery with external charger, AC power supply with US cord, operator's manual (English), detachable splice tray holder/screen cover and 1-year limited warranty

Ordering Information (continued)

Part Number	Description
Splice Equipment	
OSR-0SM-T-H	OptiSplice® Ribbon Handheld Fusion Splicer with cleaver, thermal stripper, 1 set of 12-fiber handlers, fast heat-shrink oven, carrying case, Li-Ion battery with external charger, AC power supply with US cord, operator's manual (English), detachable splice tray holder/screen cover and 1-year limited warranty
TKT-FIBERTECH-PRO	Advanced Tool Kit for the fiber optic installation professional with pop-up handle and wheels includes tools for preparing fiber optic cables, closures and fiber optic hardware in addition to cable cleaners, first aid kit, LED headlamp, safety vest, safety glasses and gloves (does not include midspan access tools); see Contents List for complete list of items
TKT-SPLICE	Tools for entering buffer tubes and preparing to splice
TKT-FTTX-LT	Tools required to perform a midspan access on a loose tube cable, including the opening of a small buffer tube (2.4 - 2.6 mm)
TKT-FTTX-RIBBON	Tool Kit designed for performing a midspan access of a ribbon cable, including opening the ribbon cable jacket, performing a midspan on the central tube and splitting a ribbon into smaller ribbons; contains both the Universal Access Tool (UAT3) and the ribbon splitting tool (RST)
TKT-026-01A	Fiber Organizer Tape Applicator (FOTA) Ribbonizer Tool Kit for 6- or 12-fiber ribbons includes FOTA tool, tape and basic tools
UAT3-000	Universal Access Tool is designed for midspan access applications for central tube design cables; OD range: 5 mm to 24 mm
OFT-000	Optical Fiber Access Tool (OFAT) for midspan on minibundle or ALTOS® Cable, 2.4 mm to 3.0 mm tubes
NFT-000	No-Slack Fiber Access Tool (NOFAT) for midspan on taut cable
RST-000	Splitter Ribbon Fiber Splitter Tool (Corning Cable Systems Ribbon Splitter Tool)
RPOC-001	Ripcord Puller for outdoor cable fits into a cordless screwdriver for use in preparing outdoor cables
TKT-FUSEFLEX	FuseFlex™ Termination System Installation Kit
FDST-000	Flat Drop Slitting Tool (SST-Drop™ Access Tool)
RDST-000	ROC™ Drop Slitting Tool (ROC Drop Access Tool)
Test Equipment	
OTS-6MDS	Single-mode/Multimode Test Kit with OS-4RMDS (850/1300 nm LED and 1310/1550 nm laser) source and integrated 650 nm VFL; OM-610 power meter
OTS-613QD	Single-mode/Multimode OLTS Test Kit for bi-directional testing with (2) OT-613QD testers (850/1300 nm LED and 1310/1550 nm laser sources) with integrated 650 nm VFLs and power meters
LTK-4MDS	Quad Multimode and Single-mode Loss Test Kit including OS-4MDS (850/1300 nm LED) and (1310/1550 nm laser) source and OM-410 Meter (no data storage)
1000DK-MDS	Dual multimode (27/26 dB) and Dual Single-mode (35/34 dB) Deluxe OTDR Kit includes OV-1000 mainframe with power meter and VFL, multimode/single-mode module
1000BK-MDS	Dual multimode (27/26 dB) and Dual Single-mode (35/34 dB) Basic OTDR Kit includes OV-1000 mainframe, multimode/single-mode module
MiniBK	MiniBK Multimode/Single-mode OTDR with power supply, Li-Ion batteries, CD with OTSView PC emulation software and user's manual, USB data transfer cable, SC and ST® Compatible OTDR port, cleaning supplies and soft carrying case.

Ordering Information (continued)

Part Number	Description
Test Equipment	
MiniDK	MiniDK Multimode/Single-mode OTDR with power meter and VFL, power supply, video inspection software, Li-Ion batteries, CD with OTSView PC emulation software and user's manual, USB data transfer cable, SC and ST® Compatible OTDR port, cleaning supplies and soft carrying case.
MiniXK	MiniXK Multimode/Single-mode OTDR with power meter and VFL, video inspection probe, power supply, video inspection software, Li-Ion batteries, CD with OTSView PC emulation software and user's manual, USB data transfer cable, SC and ST Compatible OTDR port, cleaning supplies and soft carrying case.
MiniXK-TK	MiniXK Multimode/Single-mode OTDR with power meter and VFL, video inspection probe, separate handheld multimode/single-mode source, power supply, video inspection probe software, Li-Ion batteries, CD with OTSView PC emulation software and user's manual, USB data transfer cable, SC and ST Compatible OTDR port, cleaning supplies and soft carrying case.
TKT-UNICAM-TEST	Kit contains a MINIBK OTDR and UniCam® Pretium® Installation Tool kit
HANDHELD-COMBO	Kit contains a MINIXK OTDR and OptiSplice® One Fusion Splicer
CONTRACTOR COMBO	Kit contains a MINIXK OTDR, OptiSplice One Fusion Splicer and UniCam Pretium Installation Tool Kit
PTF, PTB and NSS	Products built to customer's specs (there are limitations)
VFL-350	Visual Fault Locator, 635 nm, pen-style, 6.5 in x 0.5 in, universal 2.5 mm connector adapter (LC 1.5 mm adapters are sold separately)
VIPROBE-DUAL	Video Inspection Probe Kit for use with OV-1000 and OTS-600; 200x/400x magnification with coaxial lighting; includes bulkhead tip set for SC, LC, FC and ST Compatible; universal 2.5 mm and 1.25 mm tips

Note: Other configurations of these products are available.

Contact Information

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Fusion Splicing Resource Center

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