Certify it.
Diagnose it.
Document it.

With the first integrated fiber troubleshooting and certification platform designed for network owners and installers.

The use of fiber in premises networks is continually growing – and so are the requirements for testing and certifying it. To ensure the perform-ance of these mission-critical LANs, network owners are demanding more information that gives them a complete picture of the fiber plant. And no solution provides a more complete picture than the **OptiFiber® Certifying OTDR**. *It's a power packed advance in network visibility and reporting – in one fast, field tough tool. Now network owners and installers of all experience levels can quickly and easily troubleshoot short-haul connection-rich fiber links and certify and document fiber to the latest standards.*

OptiFiber®
Certifying OTDR

Bringing Network SuperVision™ to Fiber LANs

Take your fiber testing and your business to a new level

The OptiFiber® Certifying OTDR gives you the visibility into fiber networks to quickly isolate faults, restore network performance and meet the emerging requirements for fiber testing and certification.

- **Get a complete picture of the quality of your LAN.** OptiFiber brings together all the critical information you and your customers need – on screen, on your PC and on printed reports.

- **Take the complexity out of OTDR testing** with automated trace and event analysis, trace overlay and simple link diagramming that anyone can understand.

- **Boost productivity** with automated insertion loss testing and an intuitive interface that's fast and easy-to-use.

- **Troubleshoot connections** with a 250X/400X fiber endface microscope.

- **Measure optical power** directly to verify source and link performance.

- **Streamline data management and create impressive reports** that bring together all key test data – quickly, easily and completely.

- **Work comfortably in tight spaces** with one of the smallest, lightest micro OTDRs available.

- **Protect your investment** by purchasing the capabilities you need today and adding new modules as your testing needs and the technology evolves.

Certify to new customer specs and industry standards

Troubleshooting and certifying mission–critical fiber networks makes special demands on cabling professionals – and their tools. Only the OptiFiber Certifying OTDR from Fluke Networks is engineered specifically to meet these demands. It integrates loss/length certification, ChannelMap™, OTDR analysis and video endface inspection in a single, easy-to-use tool.

Increase productivity from day one

OptiFiber makes it as easy to test fiber as copper – with an intuitive interface and a handheld footprint that mimics our user-friendly copper-based certification solutions. Now troubleshooting fiber and testing to the latest industry standards and customer specs is as quick and easy as pushing a button. It's enough to make a cable installer smile.

See all LAN events – with a short deadzone

There's only one way to see events in short fiber runs – and OptiFiber has it. It's the first OTDR designed for LAN fiber networks with short multimode or singlemode fiber links. Advanced optoelectronics accurately pinpoint multiple events as close as 1 meter apart. No overlooked faults; no wasted time and money trying to zero in on faults that elude the long event deadzones of other OTDRs.

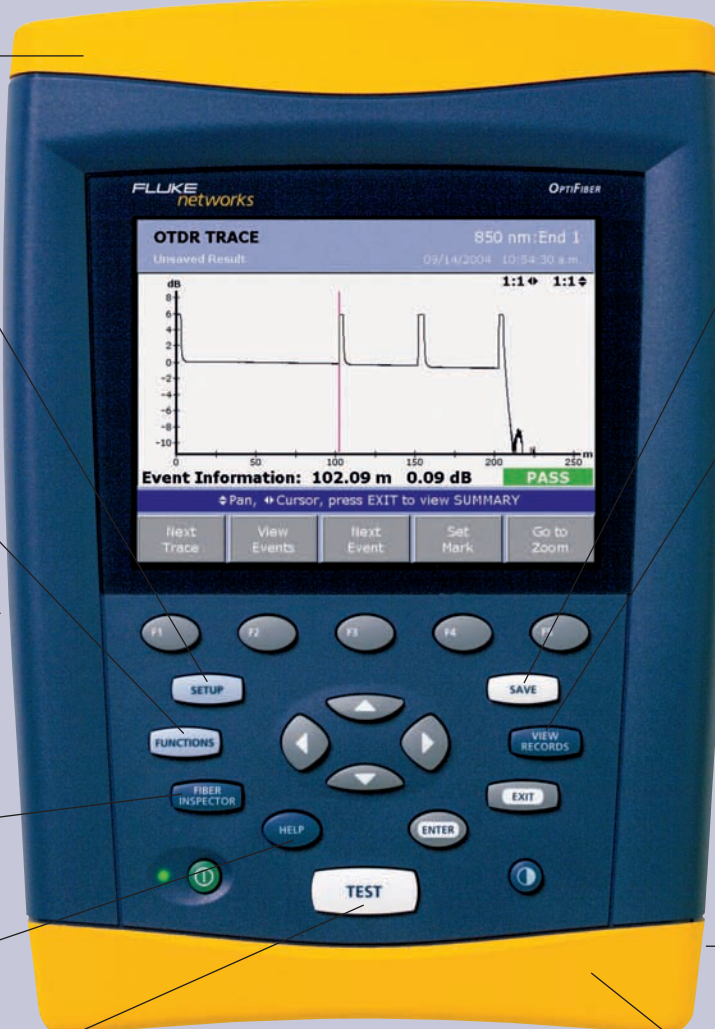## Count on a tool that's field-tough, user-friendly

OptiFiber's compact size and light weight are the ideal fit for your typical work environment: tight spaces and crowded distribution closets. It's easy to use; easy to navigate. And its modular design accepts optional test modules that can be swapped without tools in a matter of seconds. So it's easy to reconfigure your test set anytime. Anywhere. And, like other Fluke Networks' testers, OptiFiber is built to withstand the harshest conditions of everyday field use.

The OptiFiber Certifying OTDR

Working closely with premises cable installers, cable and connector companies, network owners, and standards organizations, we designed a new product to meet their needs. It's a natural extension of our leading-edge solutions for copper cable installers and fiber network professionals. And it's one more way Fluke Networks SuperVision™ helps you look into the future and leverage your business opportunities.

Window of opportunity:
Enhanced Fiber LAN visibility

Lightweight
Only 4.5 lbs. (1.9 kg) including battery and test module

Setup
Fast, easy configuration for new jobs and test requirements. Select from predefined lists or create custom limits.

Functions
Quickly view and select among various functions

MMC Card
Bring test results back to the office for instant data hand-off while the tester stays on the job

FiberInspector
View magnified fiber endface images

Help
A complete guide at the touch of a button

Test
Complete fiber testing with the push of a button

Integrated Stand
Sturdy stand makes tabletop operation easy

Save
Keep all test results for a single fiber in one integrated record

View Records
Retrieve test results easily – even when in the field; sort by ID, job or data

Keyboard Port
Speed up data entry with the optional keyboard capability

USB Port
For lightning fast data exchange with a PC

RS232 Port
Connect to a PC for data exchange

Battery
Test a full 8 hours between charges with the Li Ion battery

Portable
Small footprint for easy use in the field. 10.6" (26.9 cm) high x 7.5" (19.1 cm) wide x 2.5" (6.4 cm) deep

OptiFiber Smart Remote option
for loss/length certification

OptiFiber® Certifying OTDR packages for today's every need. And tomorrow's.

No need to reinvent the wheel every time your test and certification requirements change. OptiFiber's modular design can be customized to your current needs – and cost-effectively expanded as your needs change and new modules are released to keep you on top of the industry. OptiFiber is always the best investment you can make. Choose from a family of OptiFiber packages – or create your own.

OptiFiber OTDR
Model #OF-500-01

The basic OTDR package is perfect for LAN multimode fiber networks. Short event deadzones provide enhanced vision into short-haul, connection-rich networks. Accepts a variety of powerful options and accessories. See table below for complete package content.

OptiFiber Advanced OTDR
Model #OF-500-02

The advanced package incorporates a built-in optical power meter for use with a multimode or singlemode far end source. See table below for complete package content.

OptiFiber SR Certifying OTDR
Model #OF-500-15

The Smart Remote package adds dual-wavelength two-fiber insertion loss/length certification of multimode fiber, with the inclusion of a multimode smart remote unit for the far end of a link. Also included is a 250X/400X video microscope for inspecting fiber endfaces. See table below for complete package content.

OptiFiber Pro Inspector LL OTDR
Model #OF-500-35

This is the perfect choice for professionals needing to test and troubleshoot multimode and single-mode premises fiber networks. It provides OTDR trace and event analysis and dual-magnification fiber endface video inspection for both multimode and singlemode fibers. This package is also equipped with interfaces that provide a connection with optional OptiFiber smart remote units when automated dual-wavelength loss/length testing is required. All these results can be tied to one record and presented in one report – an impressive, professional way to document compliance to customer requirements and industry standards. See table below for complete package content.

|	OptiFiber Certifying OTDR Packages			
	OF-500-01	OF-500-02	OF-500-15	OF-500-35
OptiFiber Mainframe OF-500	•	•	•	•
Multimode OTDR Module OFTM-5610	•			
Multimode OTDR with Power Meter Module OFTM-5611		•		
Multimode OTDR with Power Meter & Loss/Length Module OFTM-5612			•	•
Singlemode OTDR Module OFTM-5630	option	option	option	
Singlemode OTDR with Power Meter Module OFTM-5631	option	option	option	
Singlemode OTDR with Power Meter & Loss/Length Module OFTM-5632	option	option	option	•
Smart Remote with Multimode Module Option OFSR-MMREM	option	option	•	option
Singlemode Module for Smart Remote OFSR-SFM	option	option	option	option
FiberInspector Pro OFTM-5352	option	option	•	•
Soft Protective Case OFCC-SCASE	option	•	•	•
Hard Carrying Case OFCC-HCASE	option	option	•	•
MMC Reader	option	option	•	•
LinkWare PC Software	•	•	•	•

See what others are missing...

You need a complete picture of the fiber plant to ensure the performance of mission-critical LANs. OptiFiber gives you more ways to look at fiber – and makes it easy to bring together the results in one complete, professional report.

ChannelMap™
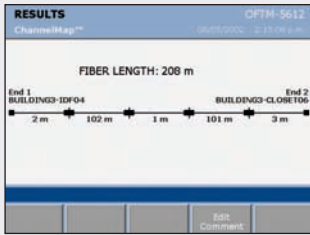
Troubleshooting starts here. See a diagram of the channel, including patch cords. Check that the link is patched all the way across the campus, and identify how many connectors are in a link.
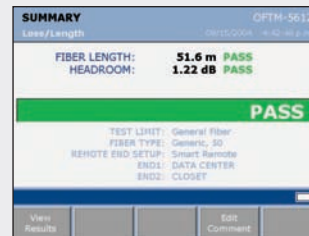
OTDR
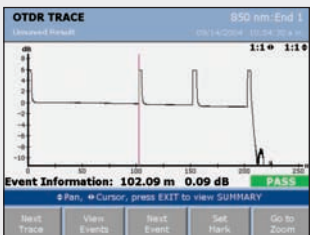
View the full profile of the fiber link. Compare one fiber link to another by using Trace Overlay. Zoom in for a closer look at events. Move quickly to areas of interest. Identify suspect optical events such as high-loss connections.

Loss/Length Certification

PASS/FAIL insertion loss analysis makes it easy to see whether the fiber is good – and presents the data in a clear, easy-to-interpret format.
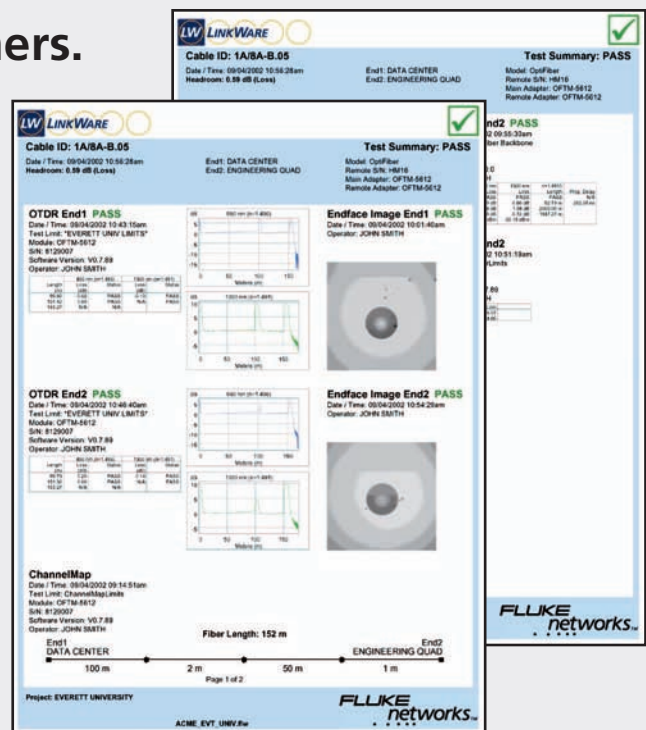
FiberInspector™ Pro

The fiber inspection video probe provides a high-resolution 250X/400X endface image of a fiber connector. Grade the image. Save the image – and show it to your customer.

OTDR Port Quality Check
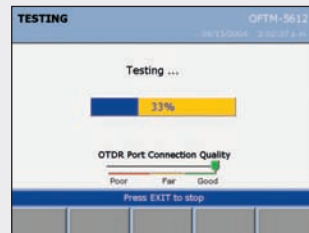
OptiFiber is the first OTDR to incorporate an automated port quality check that warns the user when the OTDR port is dirty or contaminated.

...and share it with your customers.

Here's where it all comes together in the most professional, accurate view of the network. LinkWare™ PC software makes it easy to manage and print the rich test data, captured as only OptiFiber can, to ensure the quality of network installation and performance. Instantly access and organize your results and create professional reports that meet new certification demands, impress your customers and give you a competitive edge. Merge results for the entire network with the DTX Series, DSP-4000 Series or OMNIScanner Series of cable analyzers.

OptiFiber® Specifications and Ordering Information

General Specifications

Weight	Main with module and battery: 4.5 lbs (1.9 kg)
Dimensions	Main with module and battery: 11.4 x 7.5 x 2.5 in (29.0 x 19.1 x 6.4 cm)
Battery	Li-Ion
Battery life	8 hours typical
Connections	USB, RS-232, FiberInspector™ camera port, PS-2 keyboard
Memory card	SD MMC

Environmental Specifications

Operating temperature	0°C to 40°C
Non-operating temperature	-20°C to 60°C
Relative humidity (%RH operating without condensation)	95% (10 to 35°C); 75% (35 to 40°C) Uncontrolled < 10°C
Vibration	Random, 2 g, 5-500 Hz
Shock	1 meter drop test while module is both inserted inside and outside the instrument enclosure

OptiFiber Certifying OTDR

Key OTDR Specs (23°C)	Multimode: OFTM-5610B, OFTM-5611B, OFTM-5612B	Singlemode: OFTM-5730, OFTM-5731, OFTM-5732
Output/input connector	SC/UPC removeable/cleanable	SC/UPC removable/cleanable
Wavelengths	850 ± 20 nm and 1300 ± 25 nm	1310 ± 25 nm and 1550 ± 30 nm
Fiber types tested	50/125 µm or 62.5/125 µm multimode	9/125 µm singlemode
Event deadzone	850 nm: 0.5 m typical 1300 nm: 1.3 m typical	1310/1550 nm: 1 m typical
Attenuation deadzone	850 nm: 4.5 m typical 1300 nm: 10.5 m typical	1310/1550 nm: 8 m typical
Pulse width	850 nm: 4 ns, 20 ns 1300 nm: 8 ns, 40 ns, 100 ns, 200 ns, 400 ns, 650 ns	1310 nm/1550 nm: 5 ns, 20 ns, 40 ns, 100 ns, 300 ns, 1 µs, 3 µs, 10 µs
Max distance range	850 nm: 3 km, 1300 nm: 7 km	1310/1550 nm: 60 km
Dynamic range	850 nm: 15 dB typical 1300 nm: 14 dB typical	1310 nm: 26 dB typical 1550 nm: 24 dB typical
Testing speed	<10s for two wavelengths at 2 km with 25 cm resolution <30s for two wavelengths at 400 m with 3 cm resolution	Auto OTDR 15 seconds typical Manual OTDR 15 seconds to 3 min
Output power	850 nm: >110 mW-pk 1300 nm: >22 mW-pk	1310 nm: >28 mW-pk 1550 nm: >24 mW-pk
Distance accuracy	± 1 m ± 0.005% of distance ± 50% of resolution ± IOR error ± event location error	
Loss threshold	.2 dB	.01 dB to 1.5 dB inclusive
Linearity	± .07 dB/dB	± .05 dB/dB
Sample resolution	3 cm to 50 cm	3 cm to 400 cm
Reflectance accuracy	± 4 dB	± 4 dB
ORL accuracy	± 4 dB	± 4 dB
Laser classification	Class 1 CDRH, complies to EN 60825-2	

Key Power Meter and Loss/Length Specifications (23°C)	OFTM-5612B, OFTM-5732
Input/output connectors	Removable/interchangeable input connector; SC/PC output connector
Nominal output wavelengths	OFTM-5612B: LED source: 850 nm and 1300 nm OFTM-5732: Laser source: 1310 nm and 1550 nm
Measurement range	OFTM-5612B: 5 km of 62.5 µm or 50 µm multimode fiber; 20 km in far-end source mode OFTM-5732: 10 km of 9 µm singlemode fiber; 60 km in far-end source mode
Power measurment detector type	InGaAs
Calibrated wavelengths for power measurment	850 nm, 1310 nm, 1550 nm
Power measurement range	0 to -60 dBm (1300/1310 nm and 1550 nm); 0 to -52 dBm (850 nm)
Output power (nominal)	OFTM-5612B: -19.5 dBm; OFTM-5732: -7 dBm

Note: *Above specifications are subject to change without notice*

OptiFiber® OTDR. Bringing Network SuperVision to premise fiber networks with the most complete fiber optic test solution.

Power Meter Specifications OFTM-5611B, OFTM-5731

Input connector	Removable/interchangeable SC input connector
Detector type	InGaAs
Calibrated wavelengths	850 nm, 1310 nm, 1550 nm
Power measurement range	0 to -60 dBm (1300/1310 nm and 1550 nm), 0 to -52 dBm (850 nm)

FiberInspector™ Pro Specifications OFTM-5352

Magnification	Switchable – 200x / 400x
Dimensions (without tip)	1.8 x 1.7 x 5.5 in (4.6 x 4.3 x 14.0 cm) (Length depends on adapter tip)
Weight	0.4 lb (180 g)

VFL Specifications OFTM-5730, OFTM-5731, OFTM-5732

On/off control	Controlled by OptiFiber software (no hardware switch)
Output power (into singlemode fiber)	316 um (-5 dBm) < or equal to peak power > or equal to 1 mw (0 dBm)
Operating wavelength	650 nm nominal
Spectral width	± 3 nm
Output modes	Continuous and pulse mode (2Hz-3Hz blink)
Connector adapter	2.5 mm universal
Laser safety	Class II CDRH complies to EN60825-2

OptiFiber Kits Ordering Information

Model	Description	Includes
Value		
OF-500-M	OptiFiber Multimode Value Bundle	Mainframe, battery, MM OTDR module, protective case with carrying strap, USB cable, AC adapter, LinkWare CDs and manuals, user guide, calibration certificate
OF-500-S	OptiFiber Singlemode Value Bundle	Mainframe, battery, SM OTDR module, protective case with carrying strap, USB cable, AC adapter, LinkWare CDs and manuals, user guide, calibration certificate
OF-500-MS	OptiFiber Quad Value Bundle	Mainframe, battery, MM/SM OTDR modules, protective case with carrying strap, USB cable, AC adapter, LinkWare CDs and manuals, user guide, calibration certificate
Standard		
OF-500-M10	OptiFiber Datacenter-Ready Certifying OTDR (MM)	Mainframe, battery, MM OTDR/OPM/LL module, DTX-1800-MS 120, 62.5µm and 50µm launch fibers, CDs with LinkWare and manuals, user guide, 32 MB MMC, USB cable, AC adapter, carrying strap, soft protective carrying case, 200x/400x inspection camera, MMC reader; all accessories for testing SC and LC
OF-500-MS35	OptiFiber Enterprise-Ready Certifying OTDR (MM/SM)	Mainframe, battery, MM/SM OTDR/OPM/LL module, 62.5µm, 50µm, and SM launch fibers, CDs with LinkWare and manuals, user guide, 32 MB MMC, USB cable, AC adapter, carrying strap, hard protective carrying case, 200x/400x inspection camera, MMC reader; all accessories for testing SC and LC
OF-500-MS45	OptiFiber Premium Enterprise-Ready Certifying OTDR (MM/SM)	Includes contents and capabilities of OF-500-MS35, plus Smart Remote unit components (unit and MM/SM module, carry strap, user guide, Mini-B USB-cable, second AC adapter, MMC reader)
OF-500-MSDTX	OptiFiber Enterprise-Ready Certifying OTDR + DTX CableAnalyzer (MM/SM)	Includes contents and capabilities of OF-500-MS35, plus DTX 1800 120 mainframe, MM/SM modules, 62.5µm, 50µm, and SM premium test reference cords with patented damage-resistant end-faces

OptiFiber Mainframe and Modules Ordering Information

Model	Description	Use
OF-500	OptiFiber Mainframe and Battery	Mainframe, battery, CD with LinkWare and manuals, user manual, AC adapter, 32 MB MMC, USB cable, carrying strap
OFTM-5610B	OptiFiber Multimode OTDR Module	Pinpoint the location of problems within a multimode fiber link, even if spaced as closely as .5 m apart
OFTM-5611B	OptiFiber Multimode OTDR + PM Module	Measure the attenuation of multimode fiber link using a separate far-end 850/1300 nm source
OFTM-5612B	OptiFiber Multimode OTDR + PM + Loss/Length Module	Certify a multimode link using the proven standards-based two fiber, dual wavelength methodology
OFTM-5730	OptiFiber Extended Range Singlemode OTDR Module	Pinpoint the location of problems within a singlemode fiber links, even if spaced as closely as 1 m apart
OFTM-5731	OptiFiber Extended Range Singlemode OTDR + PM Module	Measure the loss of singlemode fiber links using a separate far-end 1310/1550 nm source
OFTM-5732	OptiFiber Extended Range Singlemode OTDR + PM + Loss/Length Module	Certify a singlemode link using the proven standards-based two fiber, dual wavelength methodology

OptiFiber Options and Accessories Ordering Information

Model	Description	Use
OFTM-5352	FiberInspector Pro Video Probe, 200x/400x	High resolution 200x/400x inspection of fiber connectors on patch panels and cable assemblies. Includes Probe Adapter Tips (ST, SC, FC, and universal 2.5 mm patch cord tip)
OFSR-MMREM	Smart Remote with multimode option	Use with OptiFiber mainframe for Smart Remote loss/length certification. Includes smart remote unit with a smart remote multimode module and accessories
OFSR-SFM	Singlemode Smart Remote module option	Use with the OptiFiber Smart Remote Option (OFSR-MMREM) to allow Smart Remote loss/length certification of singlemode fibers
OFSR-MFM	Multimode Smart Remote module option	Use with a DTX CableAnalyzer™ to allow its remote unit to work with an OptiFiber mainframe as an OptiFiber smart remote unit for loss/length testing of multimode fibers
NF360	FiberInspector MT-RJ Probe Tip	For inspecting MT-RJ small form factor connectors
NF362	FiberInspector LC Probe Tip	For inspecting LC small form factor connectors
NF364	FiberInspector MU Probe Tip	For inspecting MU small form factor connectors
NF366	FiberInspector E2000 Probe Tip	For inspecting E2000 connectors
NFK1-LAUNCH	SC-SC 62.5/125 µm launch cable, 100 m	OptiFiber launch and receive fibers
NFK2-LAUNCH	SC-SC 50/125 µm launch cable, 100 m	
NFK3-LAUNCH	SC-SC Singlemode launch cable, 130 m	
OFBP-LI	OptiFiber Li-Ion battery	Test a full 8 hours between charges with integrated charger
OFCC-SOFTCASE	OptiFiber protective carry case	Protective carrying case for mainframe, module, launch fiber and accessories
OFCC-HCASE	OptiFiber hard carrying case	Ultimate protection for the mainframe, modules, batteries and accessories
OPV-KB	External mini-keyboard	Enter information quickly with the plug and play keyboard
32MB	Secure digital memory card	Record storage
DTX-SMC32	32MB secure digital memory card	
MMC CASE	MMC softcase	Easily keep track of your MMC cards in this handy case that stores up to 8 MMC cards
DSP-MCR-U	MMC Reader, USB cable	Upload saved results to the PC for results management, analysis and reporting
8251-13	SimpliFiber 850/1300 LED Source, SC	Optional sources for use with OptiFiber OTDR + power meter modules
8251-11	SimpliFiber 1310 Laser Source, SC	
8251-12	SimpliFiber 1550 Laser Source, SC	
NF400	Soft Case for Patch Cords & Accessories	Easily keep track of patch cords and small accessories
NF430	Cleaning kit	Properly clean fibers with optical grade cleaning pads, swabs and alcohol
800695	Adapter cable for cigarette lighter jacks	Charge the OptiFiber while route to the jobsite
OPV-PS	AC adapter with line cord	Keep your battery charged up with AC adapter
OPV-KB	External keyboard	Use optional keyboard for fast set up
NFA-SC	SC connector adapters for OFTM Power Meter and DTX Module inputs, set of two	Replacement SC adapters for Power Meter Ports

FLUKE networks

OptiFiber Options and Accessories Ordering Information

Model	Description	Use
NFA-LC	LC connector adapters for OFTM Power Meter and DTX Module inputs, set of two	Replacement LC adapters for Power Meter Ports
NFA-ST	ST connector adapters for OFTM Power Meter and DTX Module inputs, set of two	Replacement ST adapters for Power Meter Ports
NFA-FC	FC connector adapters for OFTM Power Meter and DTX Module inputs, set of two	Replacement FC adapters for Power Meter Ports
NFK1-DPLX-SC	SC/SC to SC/SC Duplex 62.5 um test reference cord, 2 m, set of two	Use high quality, durable, test reference cords and mandrels for the best power and loss length measurements
NFK1-DPLX-LC	SC/LC to LC/LC Duplex 62.5 um test reference cord, 2 m, set of two	
NFK1-DPLX-ST	SC/ST to ST/ST Duplex 62.5 um test reference cord, 2 m, set of two	
NFK1-DPLX-FC	SC/FC to FC/FC Duplex 62.5 um Test Reference cord, 2 m, set of two	
NFK2-DPLX-SC	SC/SC to SC/SC Duplex 50 um test reference cord, 2 m, set of two)	
NFK2-DPLX-LC	SC/LC to LC/LC Duplex 50 um test reference cord, 2 m, set of two	
NFK2-DPLX-ST	SC/ST to ST/ST Duplex 50 um test reference cord, 2 m, set of two	
NFK2-DPLX-FC	SC/FC to FC/FC Duplex 50 um test reference cord, 2 m, set of two	
NFK3-DPLX-SC	SC/SC to SC/SC Duplex Singlemode test reference cord, 2 m, set of two	
NFK3-DPLX-LC	SC/LC to LC/LC Duplex Singlemode test reference cord, 2 m, set of two	
NFK3-DPLX-ST	SC/ST to ST/ST Duplex Singlemode test reference cord, 2 m, set of two	
NFK3-DPLX-FC	SC/FC to FC/FC Duplex Singlemode test reference cord, 2m, set of two	
NF-Mandrel-Kit	Mandrel Kit 2 each for testing 50 um and 62.5 um with 3 mm jacket	Use mandrels for accurate, standard compliant multimode measurements
NF-Mandrel -50	Mandrel for 50 um fiber with 3 mm jacket	Use mandrels for accurate, standard compliant multimode measurements
NF-Mandrel-625	Mandrel for 62.5 um fiber with 3 mm jacket	Use mandrels for accurate, standard compliant multimode measurements
LinkWare	LinkWare cable test management software CD	The best results management tool to document your results
NFK1-LAUNCH-ST	Launch Fiber, Multimode 62.5 um SC/ST 100 m	Hybrid launch fiber for testing cabling with ST style connectors
NFK2-LAUNCH-ST	Launch Fiber, Multimode 50 um SC/ST 100 m	
NFK3-LAUNCH-ST	Launch Fiber, Singlemode SC/ST 130 m	
NFK1-LAUNCH-LC	Launch Fiber, Multimode 62.5 um SC/LC 100 m	Hybrid launch fiber for testing cabling with LC style connectors
NFK2-LAUNCH-LC	Launch Fiber, Multimode 50 um SC/LC 100 m	Hybrid launch fiber for testing cabling with LC style connectors
NFK3-LAUNCH-LC	Launch Fiber, Singlemode SC/LC 130 m	Hybrid launch fiber for testing cabling with LC style connectors
NFK2-LAUNCH-E2K	Launch Fiber, Multimode 50 um SC/E2000 100 m	Hybrid launch fiber for testing cabling with E2000 style connectors
NFK3-LAUNCH-E2K	Launch Fiber, Singlemode SC/E2000 130 m	
NF-OPRT-SC	SC OTDR Port Adapter	Replacement adapter for OptiFiber OTDR port