FiberOptic.com

The Fiber Optic Marketplace LLC®

Splicing Equipment | Test Equipment | Consumables & Tools | Cable Connectivity | Cable & Cable Assemblies | Cable Management | Active Devices | Premise Security

2012 Catalog

V. 3.5

Full-Line Edition

Toll Free: 877.529.9114 • Fax: 215.689.1463 • sales@fiberoptic.com

FiberOptic.com Company Profile

The Fiber Optic Marketplace, LLC®

Since its formation in 1995, FiberOptic.com has become the number one on-line provider of fiber optic products, training and rental solutions. The Fiber Optic Marketplace, LLC began as an on-line business–to–business portal for the fiber optic community, and has expanded its business both domestically and internationally. The company's customers include Fortune 500 companies, telecommunications providers, the military, installers, contractors and educational institutions from across the globe. In addition to efficient product distribution, FiberOptic.com offers classroom, on–site and on-line training courses for individuals interested in fiber optic theory and installation. Experienced fiber optics instructors conduct two and four-day training classes throughout the year at our location in Breinigsville, Pennsylvania. On-site training programs are also available for groups of six students or more. The company also offers equipment rentals including fusion splicers and OTDRs.

The Fiber Optic Marketplace, LLC is committed to maintaining excellent customer service and client relations. As we continue into the future, the company will continue to offer expertise in the field of fiber optics by providing customized solutions for our customers' project requirements. We will continue to uphold our status as the number one on-line provider of fiber optic products, training and rental solutions.

SHIPPING OPTIONS

- Same day shipping for in-stock products ordered before 3PM EST.
- You choose your shipping method: UPS, FedEX, DHL or U.S. Postal Service
- Global shipping

VALUE ADDED SERVICES

We are here to provide you with solutions and products to fulfill your project needs

- Free account set up with your first purchase
- Equipment Rentals
- Free Professional Technical Support available 9AM-5PM EST
- Chat on-line with a Professional in Real Time
- Global Training
- With Over 3,000 Products in Stock we are guaranteed to meet any of your fiber optic needs

TO PLACE AN ORDER

- Web: www.fiberoptic.com
- E-mail: sales@fiberoptic.com
- Phone: 1-877-529-9114
- Fax: 1-215-689-1463

If we have your email address on file, orders will be confirmed automatically via e-mail.

HOURS OF OPERATION

FiberOptic.com has Professional Sales Representatives ready to take your order Monday through Friday, 9AM - 5PM Eastern Standard Time or place your order on-line through our web-site www.fiberoptic.com.

For sales assistance

1-877-529-9114

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LEGAL NOTICE

All products are sold FOB shipping point. Items will be shipped UPS ground, freight collect or third-party bill unless otherwise requested by purchaser. Please advise method of shipment and preferred carrier when order is placed. We discourage mandatory carrier requirements which have an adverse effect on service and delivery. Check your order immediately upon arrival. All damages must be noted on delivery receipt. Any claims for damage or loss of items while in transit must be filed with the carrier.

For purchasers with established credit, terms are net 30 days from date of shipment. Payments must be in U.S. dollars and cash discounts are not allowed. Our remit to address is The Fiber Optic Marketplace, One TEK Park Suite 220, 9999 Hamilton Blvd. Breinigsville PA 18031.

Items being returned must first be approved by FiberOptic.com and must be shipped freight prepaid. Returned goods are subject to a 25% restocking fee.

Any liability for consequential or incidental damages is expressly disclaimed. FiberOptic.com's liability is limited to, and shall not exceed, the purchase price paid.

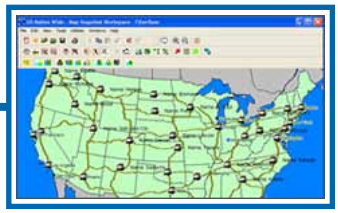
Catalog prices are subject to change without notice.

FiberBase™

By FiberOptic.com
The Fiber Optic Marketplace, LLC®

FiberBase™ is a sophisticated database and mapping package designed for today's broadband environment. Designed by industry professionals, FiberBase™ lets you map all your network assets in a GIS enabled database, completely document your network from entire routes to individual fibers, and plan for network expansion. Check out our FiberBase™ specific page for more info!

Utilizing Pitney Bowes Business Insight (formerly MapInfo®), FiberBase™ can handle networks of any size. This powerful platform can show you exactly where a particular asset is located, find faults in an OTDR trace on a map, and calculate fiber distance between two points (including twist factor.)

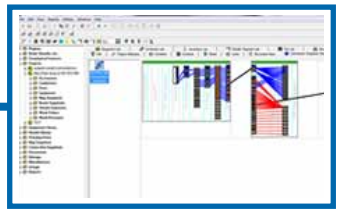


The map workspace is only one of many workspaces which work in conjunction with each other to provide you with all the tools you need to efficiently plan, track and run your fiber network.

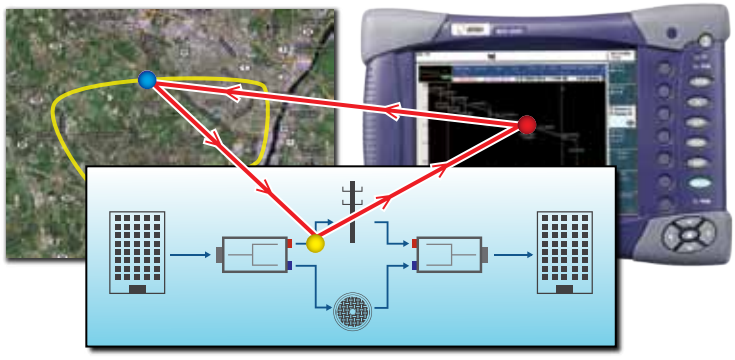
FiberBase™ allows you to zoom in on any cable sheath to see exactly what fibers are contained within. Valuable tool-tips are available when you mouse over any network element

The sheath segment workspace is only one of many workspaces which work in conjunction with each other to provide you with all the tools you need to efficiently plan, track and run your fiber network.

Network planning can happen in FiberBase™ before any work is done ensuring that the new connections are the most efficient possible. In this diagram, the red connections are "live" and the blue ones are planned.



The connection workspace is only one of many workspaces which work in conjunction with each other to provide you with all the tools you need to efficiently plan, track and run your fiber network.



FiberBase™ gives you the ability to launch the transport topology to display a logical view of the light path and the MapWorkspace to view a geographical view of the light path. As you move your cursor along the OTDR trace, the location of your cursor will be displayed logically on the transport topology and geographically on the map allowing you to quickly identify the exact location of each event on the OTDR trace.

FiberOptic.com Rental Equipment

The Fiber Optic Marketplace, LLC® (Splice & Test)

FiberOptic.com offers OTDRs, fusion splicers and hand held test equipment for rent. Rental periods are available; weekly, biweekly or monthly from the time of shipment until the time of return. No cancellations will be granted after the product has been shipped.

OTDR Rental Packages

JDSU T-Berd 4000

The JDSU Last Mile (LM) OTDR Module for the T-BERD/ MTS-4000 Multiple Services Test Platform meets these challenges for both now and the future. The LM OTDR Module provides the needed performance with maximum efficiency for any access/FTTx network test application.

	Week	Price
Single	1	$795
	2	$975
	3	$1,225
Quad	1	$1,025
	2	$1,250
	3	$1,675

EXFO FTB-200

The FTB-150 OTDR takes EXFO's world renowned OTDR technology to the next level of user-friendliness.

Fusion Splicer packages

FSM-60S

The FSM-60S Fusion Splicer sets the standard for core alignment fusion splicers. The FSM-60S is one of the fastest field splicers available, and completes a splice and tube heat in a total of 39 seconds.

RENTAL OPTIONS

	Core Align/ Fixed V-Groove	Ribbon FSM-60R12
1 Week Rental	$1,025.00	$1,225.00
2 Week Rental	$1,255.00	$1,485.00
4 Week Rental	$1,695.00	$1,925.00

PRO-730 Fusion Splicer

The PRO-730 is a core alignment fusion splicer designed for use within several areas of fiber optic deployment. Designed to work with all the popular fiber types and in all weather conditions.

RENTAL OPTIONS

1 Week Rental	$795.00
2 Week Rental	$950.00
4 Week Rental	$1,025.00

EXFO FOT-930 Testers

The FOT-930 takes EXFO's world renowned optical experience and technology to the next level of user-friendliness.

RENTAL OPTIONS

	SM & MM	SM	MM
1 Week Rental	$1,075.00	$825.00	$825.00
2 Week Rental	$1,350.00	$1,025.00	$1,025.00
4 Week Rental	$1,795.00	$1,375.00	$1,375.00

Optical Test Equipment

PRO Fiber Loss Test Kits (PM & LS)

FiberOptic.com offers complete optical loss test kits for rental in several configurations. When contacting us, please specify Singlemode, Multimode, or QUAD wavelength kit configurations.

Kit Includes

Semi-rigid Case: 3 HH, 1 Scope, + Acc. 1 PRO SM (1310/1550) Digital Variable Att. 1

The kit also inlcudes only one of the following:	The kit also inlcudes only one of the following:
Laser Source LS-102D (SM) 1310 & 1550 Laser Source LS-202D (SM) 1310 & 1550 Light Source LS-103D (MM) 850 & 1300 Light Source LS-203D (MM) 850 & 1300 Laser Source FTTx (SM) 1310/1490/1550	Power Meter PM-102A (SM) Power Meter PM-204A (SM) w/ data storage Power Meter PM-102B (CATV) Power Meter PM-204B (CATV) w/ data storage

RENTAL OPTIONS

	SM & MM	SM	MM
1 Week Rental	$795.00	$395.00	$295.00
2 Week Rental	$895.00	$495.00	$395.00
4 Week Rental	$995.00	$595.00	$495.00

TERMS & CONDITIONS

- Cleaver and one spare set of electrodes are provided with the splicers, electrodes are also available for purchase.
- If required, OTDRs are supplied with choice of adapter and launch cable. (FC or SC standard)
- One test cable is provided with each power meter and light source.
- Rental periods are by the week from the time of shipment until the time of return.
- No cancellations will be granted after the product has been shipped.
- Renter agrees to use equipment safely and return the product in as good condition as when originally received. If in default, renter agrees to pay the Fiber Optic Marketplace, LLC for any loss or damage of rental equipment.
- It is the renter's responsibility to return the rental unit via a traceable means (e.g. UPS).

PRECISION RATED OPTICS *FUSION SPLICERS*

PRO-730
Core Alignment Fusion Splicer

The PRO-730 is a core alignment fusion splicer designed for use within several areas of fiber optic deployment. Whether your application is Premise, OSP, or FTTx splicing with the PRO-730 will get the job done right. The PRO-730 is designed to work with all the popular fiber types and in all weather conditions. The dual axis view and reversible color monitor with control panels on both sides assures splicer efficiency in any work environment.

Features:

- Color LCD monitor & 256 magnification
- Compact & Light weight
- Reversible monitor with control panel on each side
- Max. wind velocity of 15m/s.
- 8 Sec. splice time, 40 Sec. tube-heat time
- Simultaneous X and Y views
- Large capacity internal battery
- SYSTEM TEST ensures the best working condition
- User programmable
- Auto check fiber end face
- Auto calibrate parameters
- Store 8000 groups of splice results
- Multiple language options

SPECIFICATIONS

Applicable Fibers	SM, MM, DS, NZ-DS, EDF
Cladding Diameter	100 to 150um
Cleave Length	16mm (standard)
Average Splice Loss	0.02dB (SM), 0.01dB (MM), 0.04dB (DS), 0.04 (NZDS)
Environmental Conditions	~25 ~ +50 C (temp), 0~95% (humidity), 0~5000m (altitude)
Tension Test	2.0N (Standard)
Monitor	Color LCD @ 200X
Splice Time	8 Seconds
Heater Time	40 Seconds (Best time)
Max Wind Velocity	15 mph
Camera Axis	X axis & Y axis
Languages	English, Spanish, Russian, Korean
Auto check fiber end face	Yes
Auto calibrate	Yes
User Programable	Yes
Interface	RS232
Data Storage	8000 Splices
Power Supply	Internal Battery (12V - 200 splices), DC Adapter (12V)
Dimensions	6.5 (W) x 5.5 (H) x 6.5 (D) inches
Weight	7.25 lbs

ORDERING INFORMATION

PRO-730	*PRO-730*	**$8,995.00**

The Kit includes: Splicer, Cleaver, Spare Electrodes, Battery, AC Adapter/Batter Charger, AC Power Cord, V-Groove Brush, Cooling Tray, Monitor Cover, Manual, Quick Guide, Hard Case.

PRO-730-STK1	*PRO-730 Technician Kit*	**Request Quote**

The Kit includes: Splicer, 100 Splice Sleeves, (LS-201Q) Quad Laser Source, (PM-102A) Power Meter, (VFL-1A) Visual Fault Locator, 400x Scope, Rugged Nylon Bag

Rentals also available

Week	Price
1	$850.00
2	$1,025.00
4	$1,250.00

OPTIONAL ACCESSORIES AND SUPPLIES

FS-BAT-730	*Battery*	**$530.00**
FS-ELEC-730	*Electrodes*	**$150.00**
FS-C20	*Cleaver*	**$1,113.00**
FS-AC-1	*AC Adapter*	**$265.00**
FS-AC-2	*AC Power Cord*	**$100.00**
PRO-730-EW	*1 Year Extended Warranty*	**$995.00**

Splice Sleeves - Page 61

PRO - 810 Fusion Splicer

Dual Heaters & Digital Image Processing

Features 8 sec. splice time, 30 sec. heat time & USB interface

Features

- High definition LCD display
- Profile Alignment System Technology (PAS)
- Core or cladding alignment
- Dual Independent Heaters, 30 Sec. tube-heat time
- 3 magnification modes, max. 360 magnification
- Four display modes, fiber core visible
- 8 Sec. splice time
- Li-on battery
- Max. wind velocity of 15m/s
- Splicing method: auto, manual
- Store 8000 groups of splice results
- USB interface - for updates + result transfers

SPECIFICATIONS

Applicable fibers	SM, MM, DS, NZ-DS(G655), EDF and others
Cladding diameter (um)	100 to 150
Coating diameter (um) **Fiber cleaved length**	100 to 1000 16mm (standard)
Splicing mode	Auto & Manual
Average splice loss	0.02dB(SM), 0.01dB(MM). 0.04dB(NZDS)
Return loss	≥60dB
Tension test	2.0N (200gf) (Standard)
Protection sleeve length	20mm, 40mm, 60mm and other series micro protection sleeves
Splicing program	80 groups
Language	English, Korean, Russian, Spanish , French, Portuguese and others
Environment conditions	-13~ +122^{O}F operation temp (-25~ +50^{O}C), 0~95%RH (humidity) 0~4000m (altitude)
Storage environment	-40~ +176^{O}F temp (-40~ +80^{O}C), 0~95% RH (humidity)
Interface	USB interface - updates & result transfer
Power supply	AC adaptor: 85~260V input voltage Internal battery: 12V, 10Ah, Capable of up to 200 sets of continuous splice and heat DC adaptor: 12V voltage,optional multipurpose external battery
Dimensions/Weight	5.75 (D) x 5.90 (W) x 6.29 (H) in / 7.3 lbs (146 (D) x 150 (W) x 160 (H) mm/ 3.3 kg)

ORDERING INFORMATION

PRO-810 *Dual Heaters & Digital Image Processing Fusion Splicer* **$9,500.00**

The Kit includes: Fusion Splicer, Internal Battery, Charger, Spare Electrodes, Cooling Tray, Instruction Manual, Carry Case, Fiber Cleaver, Fiber Stripper, AC Adaptor, AC Power Cord

PRO-810-STK1 *PRO-810 Technician Kit* **Request Quote**

The Kit includes: Splicer, 100 Splice Sleeves, (LS-201Q) Quad Laser Source, (PM-102A) Power Meter, (VFL-1A) Visual Fault Locator, 400x Scope, Rugged Nylon Bag

Rentals also available

Week	Price
1	$850.00
2	$1,025.00
4	$1,250.00

PRECISION RATED OPTICS *FUSION SPLICERS*

PRO-790
Fusion Splicer

The PRO-790 is a perfect complement to our existing fusion splicer product line. The PRO-790 is designed to be lightweight (3.75 lbs) and can fit in the palm of your hand (just under 5 inches).

This splicer is perfect for todays outside plant challenges such as fiber to the premise or home. The PRO-790 provides a manual adjustment to the V-groove that allows this unit to perform like a more expensive core alignment unit.

If you are working with bare fibers, pigtails, patch cords or drop cables this unit provides performance and results found in splicers costing thousands of dollars more.

Features:

- Color 3.5 Inch TFT, 200 magnifications
- Compact & Light weight
- Splice Memory 10000
- Max. wind velocity of 15m/s.
- 8 Sec. splice time, 35 Sec. tube-heat time
- Battery Capacity with more than 120 times of continuous splices and heats

The PRO-790 offers custom removable fiber holders that allow you to use the most popular splice-on connectors. Splice-on connectors enable technicians to manage cable without any shorts or excesses. The use of splice-on connector results in easier fiber management, particularly in MDU-type FTTH applications.

SPECIFICATIONS

Applicable Fibers	SM, MM, DS, NZ-DS(G655), G655,G657 and others
Fiber Diameter	Cladding Diameter: 80-150 um; Coating Diameter: 100~1000 um
Average Splice Loss	0.03db(MM),0.05db(SM),0.08db (DS/NZDS/G.655/G.657)
Return loss	60dB
Tension Test	2.0N
Splice Time	8 seconds
Protection sleeve length	25mm, 40mm, 50mm
Heater Time	35 Sec.
Splicing program	Manual or Automatic Setting
Alignment	Fixed V - Groove (Clad to Clad) (manual adjustment for the V-groove, to simulate core alignment)
Fiber Holder	Suitable for the Splice of bare fiber (250 to 900um), pigtail ,patch cord, Optical fiber drop cable and SC,FC,LC connector
Display	Color3.5 Inch TFT, 200 magnifications
Interface	USB
Splice Memory	10000
Electrode Span	5000 times
Operating Temp	-18^{O}C ~ 50^{O}C (-0.4^{O}F ~ 122^{O}F)
Storage Temp	-40^{O}C ~ +80^{O}C (-40^{O}F ~ 176^{O}F)
Window Protection	Max. wind velocity of 15mph
Power Supply	Internal Li-Battery, DC adaptor
Battery Capacity	More than 120 times of continuous splices and heats
Dimension	120mm(L) x 120mm(W) x 115mm(H) (4.7x4.7x4.5in)
Weight	1.7KG (3.75lbs) (Include battery)

ORDERING INFORMATION

PRO-790 *PRO-790* **$7,995.00**

The Kit includes: Fusion Splicer, Charger, Spare Electrodes, Cooling Tray, Operating Manual, Carry Case, Fiber Cleaver, Fiber Strippers, Fiber Stripper for Drop Cable, Fiber Holders

PRO-790-STK1 *PRO-790 Technician Kit* **Request Quote**

The Kit includes: Splicer, 100 Splice Sleeves, (LS-201Q) Quad Laser Source, (PM-102A) Power Meter, (VFL-1A) Visual Fault Locator, 400x Scope, Rugged Nylon Bag

S123 SERIES
Fixed V-Groove Fusion Splicer

With its super low profile and new user friendly interface, the Fitel S123 series fusion splicer offers next generation workability for every splicing field, FTTX, LAN, backbone, or long-haul installations. Combining the portability, power flexibility and field ruggedness of Fitel's previous generation of handheld splicers with the proven quality and performance of Fitel ribbon splicers, the S123 delivers fast and consistent splicing with outstanding mobility and extreme ease-of-use.

Key Features

- Superb Mobility and Workability
- Rugged Body
- New GUI & LCD Screen
- Multi-Window Fiber Display
- Fast and Accurate
- Enhanced Ease of Use

SPECIFICATIONS

Applicable Fibers	SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653), NZD (ITU-T G655), BIF/UBIF (Bend Insensitive Fiber ITU-T G.657)
Cladding Diameter	125 µm
Coating Diameter	250 to 900 µm for single fiber, 280 to 400 µm for ribbon
Fibers Cleave Length	5 to 10 mm [S123C], 10 mm [S123M4, S123M8, S123M12]
Average Splice Loss	SM: 0.05 dB, MM: 0.02 dB, DSF 0.08 dB, NZD 0.08 dB
Splice Time	Single fiber: 13 seconds Ribbon fiber: 15 seconds
Heat Time	Single fiber: 25 seconds Ribbon fiber: 35 seconds
Splice Programs	Max. 150
Heat Programs	Max. 18
Applicable Sleeves	20/40/60 mm
Tension Test	1.96 N
Fiber Image Magnification	58X [S123C], 48X [S123M4], 28X [S123M8], 20X [S123M12]
Splice Memory	Max. 1500 [S123C, S123M4], Max. 1000 [S123M8, S123M12]
Weight	S123C, S123M4: 1.4 kg (without battery), 1.6 kg (with S943B battery) S123M8, S123M12: 1.6 kg (without battery), 2.0 kg (with two S943B batteries)
Monitor	3.5" color LCD monitor
Battery Capacity	Typical 70 splice/heat cycles with S943B battery [S123C, S123M4] Typical 160 splice/heat cycles with two S943B batteries [S123M8, S123M12]
Wind Protection	Max. wind velocity of 15 m/s.
Operating Temperature	-10 to 50˚C (without excessive humidity)
Storage Temperature	-40 to 60˚C (without excessive humidity)
Power Source	AC input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V without any change of hardware

ORDERING INFORMATION

S123C-Basic-Kit — *S123C Fusion Splicer Kit* — **$6,999.00**

Kit includes: Soft Carrying Case, Fiber Optic Stripper, Hand-Held Precision Cleaver, 250µm Fiber Holders (pair), AC Adapter, Spare Electrodes (1 pair), Electrode Cleaning Disk, V-Groove Cleaning Brush, Manual

S123C-Value-Kit — *S123C Fusion Splicer Value Kit* — **$7,200.00**

Kit includes: Soft Carrying Case, Battery, Battery Charger, Fiber Optic Stripper, Hand-Held Precision Cleaver, 250µm Fiber Holders (pair), AC Adapter, Spare Electrodes (1 pair), Electrode Cleaning Disk, V-Groove Cleaning Brush, Manual

S123C-Extended-Kit — *S123C Fusion Splicer Extended Kit* — **$7,985.00**

Kit includes: Soft Carrying Case, Fiber Optic Stripper, Hand-Held Precision Cleaver, 250µm Fiber Holders (pair), 900µmFiber Holders (pair), Battery (2qty), Battery Charger, AC Adapter, Spare Electrodes (1 pair), Electrode Cleaning Disk, V-Groove Cleaning Brush, Manual

S123M4 — *S123M4 Fusion Splicer Kit* — **$9,760.00**

Kit includes: Soft Carrying Case, Fiber Optic Stripper, Hand-Held Precision Cleaver, 250µm Fiber Holders (pair),

S123M12 — *S123M12 Fusion Splicer Kit* — **$17,255.00**

Kit includes: S123M12 Splice Body, HCC-01 Hard Carrying Case, S218R Thermal Stripper, S325 One-Action Precision Cleaver, S712A-012 12-Ribbon Fiber Holders (pair), S122-X-A-0008 Fiber Reformer (pair), S943B Li-ion Battery, S958B Battery Recharger, S976A AC Adapter for S122M, S977A AC Adapter for S958B, S969 Spare Electrodes, D5111 Electrode Cleaning Disk, FPF-01 Fiber Preparation Fluid, FW-01 Fiber Wipes, VGC-01 V-Groove Cleaning Brush

OPTIONAL ACCESSORIES AND SUPPLIES

S943	*Extra Li-Ion Battery*	**$150.00**
S957B	*AC Adapter*	**$50.00**
S966	*Replacement Electrodes (pair)*	**$125.00**
D5111	*Electrode Cleaning Disk*	**$20.00**
FPF-01	*Fiber Preparation Fluid*	**$13.00**
FW-01	*Fiber Wipes*	**$7.00**

OPTIONAL ACCESSORIES AND SUPPLIES

S325A	*One-Action Precision Cleaver*	**$1,090.00**
S218R	*Thermal Stripper*	**$1,325.00**
JIC-375	*3 Hole Strippers*	**$22.90**
S211B	*Fiber Stripper*	**$40.00**
S709S-250	*250µm Fiber Holders (pair)*	**$450.00**
S709S-900	*900µm Fiber Holders (pair)*	**$450.00**

Splice Sleeves - Page 61

S178 SERIES
Core-Alignment Fusion Splicer

The FITEL® S178 Hand-Held Core-Alignment Fusion Splicer is the latest, state-of-the art addition to the S17X series of splicers. By combining speed, precision, durability and portability in one unit, the S178 Fusion Splicer ushers in an entirely new range of applications for core alignment splicing.

Equipped with a new alignment system that can save up to 20% on splicing time, the S178 Splicer's improved heating mechanism can also reduce protection sleeve shrink time by more than 30%. In addition, a newly incorporated USB 2.0 interface speeds PC communication and image/video transfer, while enhancing reliability.

Although the S178 Fusion Splicer is significantly smaller and lighter in weight than previous models, its canopy design, durable metal body frame and rubber protection corners provide robust protection, enabling use in demanding environments without compromising splicing performance. Along with its rugged durability, the splicer also offers convenience. A new battery system allows up to 200 splicing cycles (splicing/heating) before additional batteries are needed, and an innovative, mirror-free alignment system makes maintenance work a snap.

Features:

- Rugged and compact handheld design endures harsh environmental conditions
- 200 cycles (splicing & heating) with new battery confi guration
- Available for all METRO/LAN/FTTX fibers including ultra bend-optimized fibers (e.g. EZ-Bend® Fibers)
- Splicer is compatible with the OFS, Diamond2 and Seikoh Giken3 Splice-on-Connectors (SOC)
- Easy maintenance – Easy electrode replacement/ mirror-free alignment system
- Easy software upgrade via the Internet
- Easily exchanged fiber holder systems (tight holder/fiber holder/SOC holder)
- PC interface software to allow user management of splicing recipes and results
- Improved GUI to further enhance ease of use
- Large memory for storage of splice data (2,000) and images (100)

ORDERING INFORMATION

S178A-EX-900	*S178 Hand-Held Core-Alignment Includes 250µm/900µm holders*	**$15,600.00**

The Package includes: 250µm Fiber Holders, 900µm Fiber Holders, Hard Carrying Case, Spare Electrodes, AC Adapter for S178, AC Adapter for S958B, Battery for S178 (Qty 2), Battery Charger, V-Groove Cleaning Brush, Electrode Cleaning Disk, Fiber Stripper, One-Step High Precision Cleaver, Fiber Prep Fluid and Fiber Wipes, User Manual

OPTIONAL ACCESSORIES AND SUPPLIES

SCC-01	*Soft Carrying Case*	**$136.00**
FO-103-T-250-J	*Miller Tri-hole Stripper*	**$75.00**
FOM-TK-TECH	*FiberOptic.com Technician's Cleaning Kit*	**$97.00**
WBT-01	*Working Belt*	**$450.00**
USB-01	*USB Cable*	**$15.00**
CDC-01	*Car Cigarette Cable*	**$150.00**
Fiber Holder Options		
S712S-160	*160 µm fiber holders*	**$750.00**
S712S-250	*250 µm fiber holders*	**$450.00**
S712S-500	*500 µm fiber holders*	**$450.00**
S712S-900	*900 µm fiber holders*	**$450.00**

SPECIFICATIONS

Applicable Fibers	SM, MM, DSF, NZD, EDF, BIF/UBIF (Bend insensitive fi ber)
Cladding Diameter	80 ~ 150 µm
Coating Diameter	160 ~ 900 µm
Fibers Cleave Length	5 ~ 16 mm
Average Splice Loss	SM: 0.02 dB, MM: 0.01 dB, DSF: 0.04 dB, NZD: 0.04 dB
Splice Time	7 seconds (semi-auto mode), 9 seconds (regular mode)
Heat Time	25 seconds (S922: 40 mm Sleeve, S921: 60 mm Sleeve) (Pre-heat mode) 31 seconds (S922: 40 mm Sleeve, S921: 60 mm Sleeve) (regular mode)
Splice Programs	Up to 150
Automatic Splicing Selection	SM: SM, DSF, NZD, BIF/UBIF, MM: MM
Heat Programs	Up to 18
Automatic Heating Start	Available
Applicable Sleeves	20/40/60 mm
Fiber Holding	Tight holder (Loose tube applicable) or Fiber Holder System
Tension Test	1.96 N
Image Magnification	304X, 608X
Splice Memory	Max. 2,000
Image capture Capacity	Last 100 images to be automatically captured + Up to 24 images to be stored permanently
Dimension	127W × 199D × 105H mm (no shock absorber) 159W × 231D × 130H mm (shock absorber)
Weight	1.9 kg (without battery), 2.3 kg (with two batteries)
Monitor	3.5" color LCD monitor
Data Output	USB ver.2.0 mini
Diaplay Language	20 languages (e.g. English, Spanish, Japanese, Chinese)
Battery Capacity	Typical 80 splice/heat cycles with single battery 7 Typical 200 splice/heat cycles with 2 batteries 8
Altitude	5,000 mh
Operating Temp	-10° to +50° C (without excessive humidity)
Storage Temp	-40° to +60° C (without excessive humidity)
Power Source	AC Input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V

FSM-11R & FSM-11S
SpliceMate™

SpliceMate (FSM-11) is the world's smallest and most portable fusion splicer and is designed to meet the challenges posed by today's fiber networks. SpliceMate fits in the palm of your hand, yet it's smart and reliable enough to be used with confidence by inexperienced operators.

SpliceMate's advanced intelligence features include two-camera fiber inspection to insure the splice is right and Auto Arc Calibration...an industry first. It's easy to operate and quickly makes low loss splices with all common types of optical fibers up to 4-fiber ribbons. SpliceMate is available with a variety of powering options including a battery pack and adapters to work with AC or DC power sources.

A workstation, specifically designed for the SpliceMate, is available for simplified splicing in the field. Whether splicing on a pole, in a bucket, or in a neighborhood...SpliceMate is the friend to have along on the job!

World's Smallest Handheld Fusion Splicer.

- Highly portable
- Dual camera inspection
- 3.5" dual direction monitor
- Single or 4-fiber versionvs available
- 40 second tube heater
- Auto arc calibration
- 30 mph wind protector

SPECIFICATIONS

Applicable Fibers	SMF, MMF, NZDS, DSF
Number of Fibers	Single fiber (FSM-11S) / up to 4-fiber ribbon (FSM-11R)
Cladding Diameter	125µm
Coating Diameter	250µm and 900µm
Typical Splice Loss	SMF = 0.05dB / MMF = 0.02dB
Splicing Time	FSM-11R (20 seconds) / FSM-11S (11 seconds)
Heat-Shrink Time	40 seconds
Arc Calibration	Automatic and manual methods
Splicing Modes (40)	Auto SM / NZ / DS Auto MM SM, MM, NZDS, DSF
Splice Loss Estimate	Based on dual camera inspection
Monitor	3.5", adjustable monitor angle (front or top selectable)
Splices Per Charge	30
Power Supply	AC, DC, Battery
Terminals	USB
Wind Protection	30 mph
Dimensions	110W x 80D x 100H (mm) / 4.33W x 3.14D x 3.94H (inches)
Weight	0.80kg / 1.76 lbs (w/battery)
Warranty	1-year limited warranty

ORDERING INFORMATION

S013956	*FSM-11S Splicemate Kit*	**$7,500.00**

Package includes: FSM-11S Fusion Splicer, FH-50-250 Fiber Holders, BTC-04 Battery Charger, BTR-07 Battery, Spare Electrodes (Pair), Operation Manual, Transit Case, 1-year Warranty

S013988	*FSM-11S Splicemate Kit (with cleaver)*	**$8,400.00**

Kit includes: FSM-11S Fusion Splicer, CT-30 Cleaver, FH-50-250 Fiber Holders, BTC-04 Battery Charger, BTR-07 Battery, Spare Electrodes (Pair), Operation Manual, Transit Case, 1yr Warranty

S013960	*FSM-11R Splicemate Kit*	**$8,900.00**

Package includes: FSM-11R Fusion Splicer, FH-50-4 Fiber Holders, BTC-04 Battery Charger, BTR-07 Battery, Spare Electrodes (Pair), Operation Manual, Transit Case, 1-year Warranty

S013992	*FSM-11R Splicemate Kit (with cleaver)*	**$10,900.00**

Kit includes: FSM-11R Fusion Splicer, CT-30 Cleaver, FH-50-4 Fiber Holders, BTC-04 Battery Charger, BTR-07 Battery, Spare Electrodes (Pair), Manual, Transit Case, FC-01 Fiber Collector, HJS-03 Battery Powered Hot Jacket Stripper, 1-year Warranty

OPTIONAL ACCESSORIES AND SUPPLIES

S014076	*CT-30 Cleaver*	**$1,036.00**
S014092	*FC-02 Fiber Collector*	**$185.00**
S014104	*FDB-02 Fiber Collector Box*	**$11.10**
S014000	*BTC-04 Battery Charger*	**$351.50**
S014004	*BTR-07 Battery*	**$370.00**
S014008	*DCA-02 DC Adaptor*	**$92.50**
S012548	*ADC-10 AC Adapter*	**$222.00**
S013800	*FH-50-250 Fiber Holders (250 micron-Single fiber)*	**$240.50**
S013804	*FH-50-900 Fiber Holders (900 micron-Single fiber)*	**$240.50**
S013812	*FH-50-4 Fiber Holders FSM-11R (only)*	**$240.50**
S013808	*FH-50-2 Fiber Holders FSM-11R (only)*	**$240.50**
S013996	*HJS-03 Battery Powered Hot Jacket Stripper*	**$1,017.50**
S014024	*LC-01 Leather Case for SpliceMate 11R/11S*	**$92.50**
S014028	*Electrodes: FSM-11S/R 11R/11S*	**$100.00**
S002111	*FAT-02 Fiber Arrangement Tool FSM-11R (only)*	**$850.00**
S010212	*FAT-04 Fiber Arrangement Tool FSM-11R (only)*	**$444.00**
S008720	*FAA-03 Ribbon Forming Adhesive (4 oz. bottle)*	**$14.80**
S008622	*FAA-03 Ribbon Forming Adhesive (0.5L bottle)*	**$129.50**

Splice Sleeves - Page 61

AFL/FUJIKURA *FUSION SPLICERS*

FSM-18S
Fixed V-Groove Fusion Splicer

The FSM-18S Fusion Splicer is a low cost, fixed V-groove, single fiber fusion splicer with the same robust features offered in other high end models. The new rugged construction adds improved reliability by resisting shock, dust, and rain, and withstands a 30" drop test.

New features such as automatic tube heater operation, user-selectable clamping method (sheath clamp or fiber holder system), automated monitor image orientation, and battery charge capability during splicer operation provide the end user a reliable productivity tool. New software is included with each splicer and provides the user with the ability to download splice data to a PC for splice data reporting, download splicer operating software via the internet to maintain peak performance, and download video images from the splicer to enhance technical support.

Splice case doubles as a workstation!

Features

- Rugged construction providing shock, dust and moisture resistance
- Dual monitor position with automatic image orientation
- 35-second heat time (60mm sleeve)
- Automatic arc calibration
- Auto-start tube heater
- User-selectable fiber clamping method – sheath clamp or fiber holders
- Detachable work table incorporated into the transit case
- Long life battery (up to 90 splice/shrink cycles per charge)

SPECIFICATIONS

Applicable Fibers	SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU -T G.653), NZDS (ITU-T G.655)
Cladding Diameter	125µm
Coating Diameter	100µm to 1000µm
Fiber Cleave Length	8-16mm w 250µm coating. 16mm w 900µm coating
Typical Splice Loss	0.05dB-SM, 0.02dB-MM, 0.08dB-DS, 0.08dB-NZDS
Splicing Time	Typically 11seconds with standard SM fiber
Heat-Shrink Time	Typical 30 seconds with FP-03 sleeve, 35 seconds with FP3 (40), 35-55 seconds with micro sleeves
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function
Protection Sleeve L.	60mm, 40mm, micro
Arc Calibration	Automatic, real-time by using results of previous splice when in AUTO mode; manual function available
Splicing Modes	100 preset and user programmable modes
Splice Loss Estimate	Based upon dual camera cladding axis alignment data
Result Storage	Last 2000 results to be stored in the internal memory
Fiber Display	X or Y, or both X and Y simultaneously; front or rear monitor display options with automated image orientation
Magnification	300X for single X or Y view, or 187X for X and Y view
Viewing Method	Dual cameras with 4.1 inch TFT color LCD monitor with anti-reflective coating
Mec. Proof Test	1.96 to 2.25N
Cycles Per Charge	Typical 150 splice/heat cycles with power save functions activated
Terminals	USB 1.1 (USB-B type) for PC communication, Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater
Operating Condition	0 to 3,660m above sea level, 0 to 95% RH, -10 to 50°C respectively
Wind Protection	Maximum wind velocity of 15m/s. (34 mph)
Power Supply	Auto voltage selection from 100 to 240V AC or 10 to 15V DC with ADC-1, 13.2V DC with BTR-08 battery
Warranty	1 Year Warranty

ORDERING INFORMATION

S014527	*FSM-18S (machine only)*	**$6,250.00**

The Package includes: FSM-18S Fusion Splicer, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, Transit Case w/ Strap

S014528	*FSM-18S Kit (w/ cleaver)*	**$7,150.00**

The Kit includes: FSM-18S Fusion Splicer, CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, Transit Case w/ Strap

S014560	*FSM-18S Kit (w/ cleaver, battery + cord)*	**$7,475.00**

The Kit includes: FSM-18S Fusion Splicer, BTR-08 Battery, DCC-14 Battery Charge Cord, CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, Transit Case w/ Strap

OPTIONAL ACCESSORIES AND SUPPLIES

S014080	*CT-30A Cleaver*	**$1,091.50**
S014548	*FH-60-250 Fiber Holder*	**$240.50**
S014549	*FH-60-900 Fiber Holder*	**$240.50**
S014535	*ADC-13 AC Adapter*	**$370.00**
S014540	*BTR-08 Battery*	**$296.00**
S014541	*DCC-14 Power Cord (connects ADC-13 to BTR-08)*	**$37.00**
S013552	*DCC-12 Power Cord (connects ADC-13 to cigarette lighter socket)*	**$92.50**
S013532	*ELCT2-20A Electrodes*	**$100.00**
S010532	*ASW-02 Splicing Workstation*	**$693.75**
S014537	*JP-05 Splice Sleeve Cooling Tray*	**$92.50**
S014551	*CLAMP-S60B Sheath Clamp (8mm min. cleave for 250µm and 900µm)*	**$92.50**
S012996	*One year extended warranty*	**$1,500.00**

Splice Sleeves - Page 61

FSM-60S
Core Alignment Fusion Splicer

The FSM-60S fusion splicer sets the standard for core alignment fusion splicing by incorporating a user-friendly interface with enhanced features to provide the most rugged and reliable fusion splicer in the market today. The new rugged construction adds improved reliability by resisting shock, dust, and rain, and can withstand a 30" drop test.

The FSM-60S splices a fiber in 9 seconds and heats a 60mm splice sleeve in 30 seconds, for a total cycle time of only 39 seconds. New features, such as automatic tube heater operation, user-selectable clamping method (sheath clamp or fiber holder system), automated monitor image orientation, and battery charge capability during spliceroperation provide the end user a productivity tool they can count on.

New software included provides the ability to download splice data to a PC for splice data reporting, download splicer operating software via the internet to maintain peak performance, and download video images from the splicer to enhance technical support.

Splice case doubles as a workstation!

Features

- Rugged construction providing shock, dust and moisture resistance
- Dual monitor position with automatic image orientation
- Automatic arc calibration and fiber identification
- User-selectable fiber clamping method – sheath clamp or fiber holders
- Auto-start tube heater feature
- Color LCD display with anti-reflective coating for excellent visibility in bright sunlight
- Simultaneous battery charge and splicer operation
- Long life battery (up to 160 splice/heat cycles per charge)
- Detachable work table incorporated into the transit case
- Data and video download software and splicer upgrade software included; software upgrades through PC application via the internet
- Green friendly – RoHS & WEEE compliant

SPECIFICATIONS

Applicable Fibers	Single-mode (ITU-T G.652), Multimode (ITU-T G.651), DS (ITU -T G.653), NZDS (ITU-T G.655)
Cladding Diameter	80µm to150µm
Coating Diameter	100µm to 1,000µm
Fiber Cleave Length	8 to 16mm with 250µm coating diameter, 16mm with 900µm coating diameter
Typical Splice Loss	0.02dB with SM, 0.01dB with MM, 0.04dB with DS, 0.04dB with NZDS Measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	Typical 9 seconds with standard single-mode fiber
Arc Calibration	Automatic and manual available
Splicing Modes	100 preset and user programmable modes
Splice Loss	Based upon dual camera core alignment data
Fiber Display	X or Y, or both X and Y simultaneously. Front or rear monitor display options with automated image orientation
Magnification	300X for single X or Y view, or 187X for X and Y view
Tube Heater	Built-in tube heater with 30 heating modes; auto-start
Tube Heating Time	Typical 30 seconds with FP-03 sleeve, 35 seconds with FP3 (40), 35-55 seconds with Fujikura micro sleeves
Viewing Method	Dual cameras with 4.1 inch TFT color LCD monitor
Splices Per Charge	160 cycles with power save functions activated
Power Supply	100 to 240V AC or 10 to 15V DC with ADC-11
Terminals	USB 1.1 (USB-B type), DIN (6-pin)-HJS-02/03 & SH-8
Wind Protection	Maximum wind velocity of 15m/s. (34 mph)
Oper. Condition	0 to 5,000m, 0 to 95%RH and -10 to 50°C respectively
Dimensions	136W x 161D x 143H (mm) / 5.3W x 6.3D x 5.6H (inches)
Weight	5.1 lbs with AC adapter ADC-11; 5.9 lbs with BTR-08
Warranty	2 Year Warranty

ORDERING INFORMATION

S014531	*FSM-60S Fusion Splicer (machine only)*	**$15,000.00**

Includes: ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap

S014532	*FSM-60S Fusion Splicer Kit (with cleaver)*	**$15,900.00**

The Kit includes: CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap

S014562	*FSM-60S Fusion Splicer Kit (with cleaver, battery and cord)*	**$16,225.00**

The Kit includes: BTR-08 Battery, DCC-14 Battery Charge Cord, CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap

OPTIONAL ACCESSORIES AND SUPPLIES

S014080	*CT-30A Cleaver*	**$1,091.50**
S014548	*FH-60-250 Fiber Holder*	**$240.50**
S014549	*FH-60-900 Fiber Holder*	**$240.50**
S014535	*ADC-13 AC Adapter*	**$370.00**
S014540	*BTR-08 Battery*	**$296.00**
S014541	*DCC-14 Power Cord (connects ADC-13 to BTR-08)*	**$37.00**
S013552	*DCC-12 Power Cord (connects ADC-13 to cigarette lighter socket)*	**$92.50**
S013532	*ELCT2-20A Electrodes*	**$100.00**
S010532	*ASW-02 Splicing Workstation*	**$693.75**
S014537	*JP-05 Splice Sleeve Cooling Tray*	**$92.50**
S014551	*CLAMP-S60B Sheath Clamp (8mm min. cleave for 250µm and 900µm)*	**$92.50**
S012996	*One year extended warranty*	**$1,500.00**

AFL/FUJIKURA *FUSION SPLICERS*

FSM-60R12
Ribbon Fusion Splicer

The FSM-60R12 Fusion Splicer offers unmatched versatility and reliability. The new ribbon splicer withstands a drop test of up to 30" and continues to splice. And enhanced, robust features enable the FSM-60R12 to resist shock, dust, and rain so that unfortunate environmental conditions do not negatively impact productivity. Equipped with a user-friendly interface and precision fixed V-groove, the FSM-60R12 offers 2 to 12 fiber ribbon splicing, as well as, single fiber splicing capability. Automated features such as auto-start splicing, auto-start tube heater operation, automatic ribbon fiber identification, and auto-arc calibration reduce operational steps and improve splicing performance. Additional improvements include automatic image orientation when switching the dual position monitor, a large capacity battery option and the ability to charge the battery during splicer operation. New software included provides the ability to download splice data to a PC for splice data reporting, download splicer operating software via the internet to maintain peak performance, and download video images from the splicer to enhance technical support.

SPECIFICATIONS

Applicable Fibers	Single-mode (ITU-T G.652), Multimode (ITU-T G.651), DS (ITU -T G.653), NZDS (ITU-T G.655)
Fiber Count	Single, 2, 4, 5, 6, 8, 10, 12
Cladding Diameter	125µm
Coating Diameter	Ribbon: 0.25mm to 0.4mm, Single: 250µm and 900µm
Fiber Cleave Length	10mm
Typical Splice Loss	0.05dB with SM, 0.02dB with MM, 0.08dB with DS, 0.08dB with NZDS; measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	Typical 20 seconds with standard single-mode fiber
Arc Calibration	Automatic, real-time by using results of previous splice when in AUTO mode; manual arc calibration function available
Splicing Modes	100 preset and user programmable modes
Splice Loss	Based upon dual camera cladding alignment data
Splice Storage	Last 2000 splice results stored in the internal memory
Fiber Display	X or Y, or both X and Y simultaneously; front or rear monitor display options with automatic image orientation
Magnification	35X to 90X
Viewing Method	Dual cameras with 4.1 inch TFT color LCD monitor with anti-reflective coating
Mechanical Proof Test	1.96 to 2.25N
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function
Tube Heating Time	Typical 50 seconds with FP-5 sleeve, 40 seconds with FP3 (40), 35-55 seconds with Fujikura micro sleeves
Protection Sleeve Length	60mm, 40mm, Micro
Splice/Heat Cycles with Battery	Typical 90 cycles with power save functions activated
Power Supply	Auto voltage selection from 100 to 240V AC or 10 to 15V DC with ADC-13, 13.2V DC with BTR-08 battery
Terminals	USB 1.1 (USB-B type) for PC communication, Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater
Wind Protection	Maximum wind velocity of 15m/s. (34 mph)
Oper. Condition	0 to 3,660m above sea level, 0 to 95% RH, and -10 to 50°C respectively.
Dimensions	136W x 161D x 143H (mm) / 5.3W x 6.3D x 5.6H (inches)
Weight	2.1 kg (4.6 lbs) with AC adapter ADC-13; 2.5kg (5.5 lbs) with BTR-08 battery
Warranty	2 Year Warranty

Features

- Rugged construction providing shock, dust and moisture resistance
- Dual monitor position with automatic image orientation
- Automatic arc calibration and ribbon fiber identification
- Auto-start tube heater
- Color LCD display with anti-reflective coating for excellent visibility in bright sunlight
- Simultaneous battery charge and splicer operation
- Long life battery (up to 90 splice/heat cycles per charge)
- Detachable work table incorporated into the transit case
- Data and video download software and splicer upgrade software included; software upgrades through PC application via the internet
- Green friendly – RoHS & WEEE compliant

ORDERING INFORMATION

S014533 *FSM-60R12 Fusion Splicer (machine only)* **$16,500.00**

Includes: FH-50-12 Fiber Holders (pair), ADC-13 AC Adapter, ACC-14 AC Cord, Magnifier, JP-05 Splice Sleeve Cooling Tray, USB Cable, Splicer Carrying Strap, Spare Electrodes (pair), Quick Reference Guide, Video Instruction Manual, and Transit Case with Carrying Strap

S014534 *FSM-60R12 Fusion Splicer Kit (with cleaver and stripper)* **$17,900.00**

Includes: CT-30 Cleaver, HJS-02 Hot Jacket Stripper, FH-50-12 Fiber Holders (pair), ADC-13 AC Adapter, ACC-14 AC Cord, Magnifier, JP-05 Splice Sleeve Cooling Tray, USB Cable, Splicer Carrying Strap, Spare Electrodes (pair), Quick Reference Guide, Video Instruction Manual, and Transit Case with Carrying Strap

S014563 *FSM-60R12 Fusion Splicer Kit (with cleaver, stripper, battery and cord)* **$18,225.00**

Includes: CT-30 Cleaver, HJS-02 Hot Jacket Stripper, FH-50-12 Fiber Holders (pair), BTR-08 Battery, DCC-14 Battery Charge Cord, ADC-13 AC Adapter, ACC-14 AC Cord, Magnifier, JP-05 Splice Sleeve Cooling Tray, USB Cable, Splicer Carrying Strap, Spare Electrodes (pair), Quick Reference Guide, Video Instruction Manual, and Transit Case with Carrying Strap

OPTIONAL ACCESSORIES AND SUPPLIES

S010340	*HJS-02 Hot Jacket Stripper*	**$647.50**
S013828	*FH-50-12 Fiber Holder*	**$240.50**
S013824	*FH-50-10 Fiber Holder*	**$240.50**
S013820	*FH-50-8 Fiber Holder*	**$240.50**
S013816	*FH-50-6 Fiber Holder*	**$240.50**
S013812	*FH-50-4 Fiber Holder*	**$240.50**
S013808	*FH-50-2 Fiber Holder*	**$240.50**
S013800	*FH-50-250 (250µm coated single fiber)*	**$240.50**
S013804	*FH-50-900 (900µm jacketed single fiber)*	**$240.50**
S010212	*FAT-04 Fiber Arrangement Tool*	**$444.00**
S008720	*FAA-03 Ribbon Forming Adhesive (4 oz. bottle)*	**$114.80**
FOM-TK-VGROOVE	*Fiberoptic.com Fusion Splicer Cleaning Kit*	**$79.00**
S014558	*CC-24-60R Transit Case (fits FSM-60R12 only)*	**$333.00**

Type-25eU/S/M
TomCat™ FTTH Fusion Splicer

The new Type-25e TomCats incorporate all the features, functions and proven reliability of the Type-25 family—the industry's most popular handheld splicers for FTTx, premise, and restoration applications—but with numerous enhancements. The new TomCats feature improved optical technology utilizing your choice of an economical one camera system or an industry standard dual camera splice loss estimation system. The improved optical technology, combined with a quicker splice protection sleeve heater, allows the unit to deliver a typical splice time in less than 11 seconds for SMF or MMF.

The units are also compatible with Sumitomo's new Lynx—CustomFit™ Splice-on Connector, which makes index matching gel, hand polishing, epoxies and splice trays obsolete. The Type-25e family features an improved fiber holder system to increase splice repeatability while making the units effortless to learn and operate.

SUMITOMO ELECTRIC LIGHTWAVE

TomCat SPLICERS

Features:

- Dual Camera Splice Loss Estimation
- Economically Priced Single Camera Unit
- 60 Splice & Heat Shrinks per Battery Charge
- Multiple Language Options Including Spanish
- User-Friendly Menu Selection System
- Unified Holders for Type-25e/Type-66
- Unified Electrodes for Type-25e/Type-66/Type-39
- Built-in Battery Charger
- AC Adapter Incorporated within Unit
- Lynx -- CustomFit Splice-On Connector Compatible
- Automatic Arc Test Function

SPECIFICATIONS

Model	Type-25eU	Type-25eS	Type-25eM
SMF/MMF	0.10/0.04dB	0.05/0.03dB	0.05/0.03dB
RoHS	Compliant (environmentally friendly)		
Alignment Method	Fixed V-Groove		
Applicable Fiber Types	SMF, MMF, DSF, NZ-DSF		
Fiber Count	1ct.	1ct.	up to 4ct. ribbon
Splice Loss Estimation	No	Yes	Yes
Fiber Placement Fiber	Holder System (for Type 25e/Type 66/Type-65)		
Cladding Diameter	125 µm		
Typical Splice Loss	Identical Fibers		
SMF/MMF	0.10/0.04dB	0.05/0.03dB	0.05/0.03dB
Typical Heaters Cycle	40 seconds		
Typical Splice Time	11 seconds		
Splices Per Charge	60 Splice & Heat Shrink Cycles per Charge		
Arc Test	Compensates for Environmental Conditions		
External Interface	12 Volt DC Output for Accessories USB Port for Quick PC Transfers		
Internal Data Storage	1500		
Lynx—CustomFit™ Splice-On Connector	Compatible		
Powering Options	Internal Battery Charger Internal AC Adapter		
Warranty	2-year Limited Warranty		

Check out Sumitomo's Lynx Splice-On Connectors
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ORDERING INFORMATION

TYPE-25EU-KIT-1 *Type-25eU Fusion Splicer Kit (splicer only)* **$4,890.00**

The Kit includes: Type-25eU Fusion Splicer, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25EU-KIT-2 *Type-25eU Fusion Splicer Kit (w/cleaver)* **$5,720.00**

The Kit includes: Type-25eU Fusion Splicer, Fiber Cleaver, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25ES-KIT-1 *Type-25eS Fusion Splicer Kit (splicer only)* **$6,250.00**

The Kit includes: Type-25eU Fusion Splicer, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25ES-KIT-2 *Type-25eSFusion Splicer Kit (w/cleaver)* **$7,650.00**

The Kit includes: Type-25eU Fusion Splicer, Fiber Cleaver, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25EM-KIT-1 *Type-25eM Fusion Splicer Kit (splicer only)* **$8,700.00**

The Kit includes: Type-25eM Fusion Splicer, Fusion Splicer, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, 4 Fiber Ribbon Holders, Hard Carrying Case, 1-year Limited Warranty

TYPE-25EM-KIT-2 *Type-25eM Fusion Splicer Kit (w/cleaver)* **$10,190.00**

The Kit includes: Type-25eM Fusion Splicer (w/ cleaver), Fiber Cleaver, Jacket Remover, Battery, Battery Charger, V-groove Brush, Spare Electrodes, Operation Manual, 250µm Fiber Holders, 4 Fiber Ribbon Holders, Hard Carrying Case, 1-year Limited Warranty

*** All the above available as Kit-3, includes an extra battery**

OPTIONAL ACCESSORIES AND SUPPLIES

FOM-TK-VGROOVE	*Fiberoptic.com Fusion Splicer Cleaning Kit*	**$79.00**
FCP-BL	*Cleaver Blade (FC-XXX)*	**$195.00**
FHS-025	*250 µm Single Fiber Holder (T-25e)*	**$500.00**
FHS-09	*900 µm Single Fiber Holder (T-25e)*	**$500.00**
FHM-4	*4 Count Ribbon Fiber Holder (T-25eM)*	**$500.00**
FHM-12	*12 Count Ribbon Fiber Holder (T-25eM)*	**$500.00**
ER-10	*Spare Electrodes (T-25e)*	**$100.00**
BU-HH2	*Battery Unit*	**$265.00**
JR-6	*Heated Jacket Remover, 1-4ct. Ribbon*	**$1,100.00**
APF-03-KIT	*Aerial Work Platform w/Mounting Arm*	**$595.00**
VGB-003-CR	*V-groove Brush*	**$15.00**

Splice Sleeves - Page 61

Quantum Type-Q101-CA
Core Alignment Fusion Splicer

The Quantum Type-Q101-CA marks the new standard for fusion splicers. The Quantum is the Industry's 1st and ONLY fusion splicer with: fully navigational touch screen interface for optimum user friendliness; SD port for virtually unlimited data storage, plus favorite program, video, audio, and software uploads; remote maintenance capability; the largest fiber view; and the longest electrode life—with the legendary reliability common to all Sumitomo splicers. Although it's also the lightest, smallest, and most advanced core alignment fusion splicer in the industry, the Quantum is more ruggedized with superior dust, shock and water-proof resistance making it the ideal choice for even the harshest environments. The built-in dual heater system, a Sumitomo Electric innovation, reduces heater wait time and improves splicing efficiency by 70%, yielding a splicer with the speed, performance, and specifications that advances fusion splicing technology.

QUANTUM FUSION SPLICERS

SPECIFICATIONS

RoHS	Compliant
Fiber Requirement	SMF, MMF, DSF, NZ-DSF, BIF/UBIF
Coating Diameter	100 to 1000 µm
Cladding Diameter	80 to 150 µm
Cleave Length	5-16 mm
Typical Splice Loss	SMF: 0.02dB; MMF: 0.01 dB; NZ-DSF: 0.04dB
Return Loss	<70dB
Alignment Method	High Resolution Direct Core Monitoring & 3-Axis Core Alignment
Built-In Splice Protection	Dual Independent Auto Splice Sleeve Heaters
Heater Cycle Time	28 Seconds; 60mm
Heater Programs Max/Preset	100 / 30
Typical Splice Time	7 Second Splice Time
Splice Programs Max/Preset	300 / 50
Attenuation Splicing	0.1 – 15.0dB
Interface	Touch Panel Input & Switches Built-in Audio & Video SD Memory Card, USB2.0 (USB-mini B) DC Input for Car Battery Operation
Power Requirements	Input: 100V to 240V AC; 50/60 Hz; 10-15V DC
Battery Module	Li-ion; Arc and Heater Cycle Capacity Number Displayed on Monitor
Arc Test	Auto Compensation for Environmental Conditions
Proof Test	Internal 200g
Image Display	320X Single (zoom700X) and 88X Dual Fiber Imaging; X/Y with 2 Cameras
Internal Splice Data Storage	10000 (Unlimited with SD card)
Image Storage	64
Size(mm)	120W x 154D x 130H
Display	4.1 Color, Low Glare, High Resolution Touch Screen Monitor
Wind Protection	30mph (15m/s)
Battery Operation	Standard: 200 Splices & Heater Cycles
Weight	2.1kg with Battery
Warranty	

Features:

- Dual Independent Heat Shrink Ovens
- Industry's Only High Resolution, Fully
- Navigational, Touch Screen Monitor
- Industry's Only SD Port for Virtually
- Unlimited Data Storage, Plus Favorite
- Program, Video, Audio, and Software Uploads
- Internet Interface for Remote
- Maintenance & Software Upgrades
- Industry's Only Video & Audio Playback
- Industry's Lightest Weight & Smallest
- Footprint Core Alignment Splicer
- Ruggedized Design for Shock, Water, and Dust Resistance
- Automatic Splice Start, Arc Calibration,
- Heater Start and Fiber Identification
- Hard Carrying Case with Integrated Work Platform
- Multiple Positional Monitor with Automatic Display Inversion
- Fiber Holder or Fiber Clamp Selectable
- Battery Recharges While Splicing with AC Power

ORDERING INFORMATION

TYPE-Q101-KIT-1	*Quantum Fusion Splicer*	**$15,284.00**
The Kit includes: Quantum Splicer, Hard Transit Case, Work Platform, AC Adapter, Standard Battery, Cleaning Tools, Fiber Protection Sleeve Cooling Tray, Manual, Fiber Optic Stripper		
TYPE-Q101-KIT-2	*Quantum Fusion Splicer w/ Cleaver*	**$16,184.00**
The Kit includes: Quantum Splicer, Hard Transit Case, Work Platform, AC Adapter, Standard Battery, Cleaning Tools, Fiber Protection Sleeve Cooling Tray, Manual, Fiber Optic Stripper, FC-6S-5C Fiber Optic Cleaver		

TYPE-66
TuffCat™ Mass Fusion Splicer

The Type-66 TuffCat mass fusion splicer features the industry's first Dual-Automatic-Splice Protection Sleeve Heater System - Sumitomo's exclusive patent-pending system. The dual heater system's simultaneous operation helps to eliminate squandered time waiting for a single heater system to complete its cycle. Instead, the streamlined splicing process reduces the bottle neck of "heater wait time" by 88% improving mass splicing efficiency and productivity in the field by 70%.

The TuffCat features an effortless fiber holder system to increase splice repeatability while making the unit easy to use regardless while making the unit easy to use regardless of the operator's experience level. Utilizing precision v-groove alignment, the TuffCat can be used for all types of ribbon and single splicing with an optimum arrangement for ease of use in trunk, aerial or taut-sheath applications.

The TuffCat mass fusion splicer embodies Sumitomo's mission of customer focused engineering by reducing the customer's overall cost of ownership. The unit features electrodes common with both the Type-39 FastCat and the Type-25e TomCat splicers to reduce the customer's inventory cost, as well as simplifying the ordering process. The Type 66's fiber holders are compatible with the Type-25e TomCat handheld splicers, as well as existing Sumitomo Type-61, 62, 63 and 65 fusion splicers.

SPECIFICATIONS

Alignment Method	Fixed V-groove
RoHs	Compliant (environmentally friendly)
Fiber Requirement	Silica Glass
Silica Glass	1-12
Cladding Diameter	125um
Coating Diameter	Ribbon 250um, Single:250 and 900um
Typical Splice Time	20 seconds
Splice Loss, Identical Fibers	SMF:0.04dB,MMF:0.03dB,NZ-DSF:0.07
Protection, Sleeve Heater	Built-In Dual Independent Splice Protection Sleeve Heaters
Heater Cycle Time	Heater 1.40 seconds, Heater 2.40 seconds
Arc Test Compensation	Automatic
DC (Battery Operation)	Standard: 70 Splices & Heater Cycles Extended Life:140 Splices & Heater Cycles
Arc Test	Automatically Compensates for Environment
Interface	USB for PC Interface RCA Jack for External Monitor 12 Volt DC Output for Accessories
Display Type	5.6 Color TFT Low Glare High Resolution Color Monitor
Display Positions	Multiple Positional For Front to Back/ Back to Front Work Flow
Selectable Language Options	18 Language Options including Spanish
Splice-On Connector	Compatible
Splice-Data Storage	2000 Splice Points
Size	150W x 150D x 1500H mm (5.9W x 5.9D x 5.9H)
Weight	2.7 kg(5.95 lbs)
Wind Protection	30 mph (15 m/s)
Battery Operations	Standard 70 Splices & Heater Cycles Extended Life 140 Splices & Heater Cycles
Warranty	2 Year Warranty

Features

- Dual Independent Splice Protection Sleeve Heaters
- RoHS Compliant
- Optional Splice-on-connector Heater
- 5.6" Switchable Color Monitor for Front to Back or Back to Front Operation
- Automatic Splice Start
- Automatic Heater Start
- Fiber Alignment Vibration clamps
- Extended Life Battery 140 Splices & Heater Cycles per Charge
- User-Friendly Menu Slection System with on Screen Assistance
- Spanish Language Option Standard
- 24-Hour Technical Support via (888-SPLICER)

ORDERING INFORMATION

TYPE-66-KIT-1	*Type-66 Kit*	**$17,250.00**

The Kit includes:: Splicer, 250um Fiber Holders, 12ct Ribbon Fiber Holders, Heated Jacket Remover, Mass Fiber Cleaver, Spare Electrodes, AC Interface/Battery Charger, Battery Charger Cable, Battery, Power Cord, Shrink Sleeve Cooling Tray, Spare Electrodes, Hard Transit Case, V-Groove Brush, Manual, Splice sleeves, Alcohol Dispensing Bottle

TYPE-66-KIT-2	*Type-66 Kit (with ribbonizing tool)*	**$17,900.00**

The Kit includes: Splicer, Mass Fiber Cleaver, Heated Jacket Remover, Power Cord, V-Groove Brush, Spare Electrodes, Manual, 250um Holders, 12ct. Ribbon Fiber Holders, Hard case, Ribbonizing Tool, Consumable kit, Splice sleeves, Alcohol Dispensing Bottle, Cooling Tray, AC Interface, Battery Charger w/power Cord, Standard Batteries, Manual

OPTIONAL ACCESSORIES AND SUPPLIES

BU-66S	*Standard Battery, 100 Splice and Heater Cycles per Charge*	**$325.00**
BU-66XL	*XL Battery, 200 Splice and Heater Cycles per Charge*	**$650.00**
PC-V66	*12 V DC, Car Adapter Battery*	**$245.00**
BCC-66	*Battery Charger Cable*	
PS-M2	*Power Supply / Battery Charger Module*	**$950.00**
ER-10	*Spare Electrodes*	**$100.00**
FC-6M-C	*Precision Fiber Optic Cleaver*	**$1,050.00**
FC6-CATCHER	*FC-6 Cleaver Series Scrap Catcher*	**$250.00**
JR-M03	*Jacket Remover*	**$29.00**
FPS-1	*Fiber Protection Sleeves (Single Fiber, 60mm, 50 Sleeves)*	**$12.50**
FPS-40-10P	*Fiber Protection Sleeves (Single Fiber, 40mm, 10 Sleeves)*	**$2.50**
PC-AC2	*AC Power Cord*	**$30.00**
APF-03-KIT	*Aerial Work Platform w/Mounting Arm*	**$595.00**
VGB-003-CR	*V-groove Brush*	**$15.00**

Precision Rated Optics

Work with a PRO!

FiberOpticPRO.com

PRO - 810 Fusion Splicer

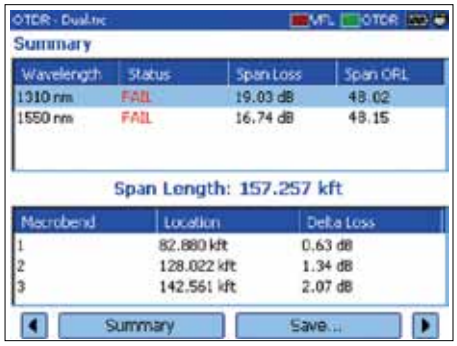
Premise, OSP, or FTTx splicing, Dual heater, Core alignment fusion splicer.

- Profile Alignment System Technology (PAS)
- 8 Sec. splice time, 40 Sec. tube-heat time
- Auto or Manual Splicing Modes
- High Definition LCD Display
- Store 8000 groups of splice results
- Daul Independent Heaters

AXS-100 / 110
Handheld OTDR

Compact, rugged, light-weight OTDRs optimized for access/FTTx and LAN/WAN network testing

Powerful handheld units combining OTDR and power meter functionalities, optimized for FTTx PON certification and troubleshooting, as well as for premises network testing.



Applications

- LAN/WAN network characterization
- Access network installation and troubleshooting

Features

- Complete test set with value-added options, including power meter, visual fault locator (VFL), fiber inspection probe, printer and IP testing
- Unrivaled event dead zone of 0.8 m, for easy location and characterization of all events
- A single unit for testing singlemode as well as 50 and 62.5 mm multimode fiber
- 850, 1300, 1310 and 1550 nm wavelengths, with respective dynamic ranges of 24, 25, 32 and 30 dB
- Top user-friendliness: one-touch testing, summary screen, macrobend finding
- Complete connectivity flexibility: USB stick compatibility and USB cable data download

SPECIFICATIONS

	AXS-100	AXS-110
Wavelength (nm)	1310/1550/1625	850/1300/1310/1550
Event Dead Zone (m)	2.5	0.8
Attenuation Dead Zone (mm)	11/12/12	3.5/4.5/4/4.5
Dynamic Range (dB)	29/28/28 (1310/1550/1625)	24/25/32/30 (850/1300/1310/1550)
Distance Range (km)	0.65 to 160	Multimode: 0.1 to 40 Singlemode: 0.65 to 260
Data Points	Up to 30 000	Up to 64 000
Storage Capacity	500 traces	
Ports	USB, RJ-45	
Trace File Format	Bellcore (.sor, Telcordia SR-4731)	
Size (H x W x D)	250 mm x 125 mm x 75 mm (9 7/8 in x 4 15/16 in x 3 in)	
Weight	1 kg (2.2 lb)	

The Fiber Technician's Complete Test Set-Value-Added Options

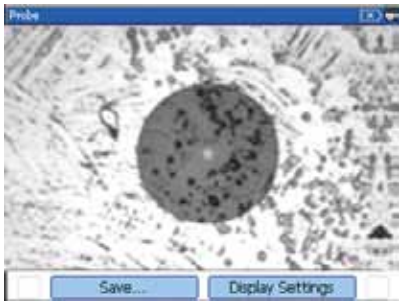
IP Testing (SK2 Software Option)
Performing complete access network testing also means testing the delivered service. With the AXS-100's IP testing option, you can perform basic IP verification that will facilitate future troubleshooting operations.

Visual Fault Locator
Ideal for easily identifying macrobends, bad splices or bad connectors, this option delivers built-in 650 nm visual fault location on a universal connector.

Power Meter GeX
The AXS-100's optional power meter covers the 800 to 1650 nm range, offering a power range of –60 to 26 dBm (GeX 2 mm); it is also calibrated according to CWDM wavelengths. The optional power meter comes with a three-year recommended calibration interval, providing for a very low cost of ownership.

Fiber Inspection Probe (SK3 Software Option)
In any optical network, connectors should be kept clean and in good condition—which is not always easy in outside conditions. You can quickly and easily inspect fiber ends or connectors using a fiber inspection probe, and view the endfaces on the AXS-100's high-resolution display. Then, save your image captures for future documentation purposes.

SmartKit Software (SK1 Software Option)
Save time on the field with automated software analysis functions. Let the instrument work for you. This software package combines automatic macrobend detection, pass/fail and fault finding features. It enables you to access all your results at once and easily check link status. A single summary screen shows you detailed pass/fail status, fiber-length measurements and pinpoint macrobend localization.



AXS-100 / 110
Handheld OTDR

EXFO's AXS-100 Handheld OTDR series covers the whole range of short-haul OTDR test applications. Featuring unrivaled event dead zones and first-class dynamic ranges, it includes four models to better suit your specific OTDR testing requirements.

AXS-110 All-Fiber OTDR Combining singlemode and multimode capabilities for enterprise, campus and access networks, this model offers the 850, 1300, 1310 and 1550 nm wavelengths, with respective dynamic ranges of 24, 25, 32 and 30 dB.

AXS-110-SM Singlemode OTDR Ideal for FTTx/access and CATV testing, this model offers the 1310 and 1550 nm wavelengths, with respective dynamic ranges of 32 and 30 dB.

AXS-110-MM Multimode OTDR Optimized for enterprise testing on both 50 and 62.5 µm multimode fiber, this model offers the 850 and 1300 nm wavelengths, with respective dynamic ranges of 24 and 25 dB.

AXS-100 Access OTDR Designed for singlemode OTDR troubleshooting, this model features an in-service PON troubleshooting option. It offers the 1310 and 1550 wavelengths on one port, and filtered 1625 nm on the other port, with respective dynamic ranges of 29, 28 and 28 dB

ORDERING INFORMATION

Base configurations are priced and quoted as below. Power meter, Software, Probe, Connector and Connector adapters are included in the order as add-ons. Extended 2 and 5 year warranties are available.

CONFIGURATIONS

PART #	WAVELENGTHS					DYNAMIC RANGE	EVENT DEADZONE	ATTENUATION DEADZONE	PRICE
	850	1300	1310	1550	1625				
AXS-100-003B-XX				•		28 dB	2.5 m	12 m	**$4,095.00**
AXS-100-023B-XX			•	•		29/28 dB	2.5 m	11/12 m	**$4,495.00**
AXS-100-034B-XX*				•	•	28/28 dB	2.5 m	12/12 m	**$4,795.00**
AXS-110-23B-XX			•	•		37/35 dB	0.8 m	4/4.5 m	**$5,995.00**
AXS-110-12CD-XX	•	•				24/25 dB	0.8 m	3.5/4.5 m	**$6,895.00**
AXS-110-12CD-23B-XX	•	•	•	•		24/25/32/30 dB	0.8 m	3.5/4.5/4/4.5 m	**$9,795.00**

* 2nd port option is not available for this configuration.

ADD-ONs AND OPTIONS

POWER METER OPTION		
PM2X-XX	*GeX Power meter (replace "XX" with connector adapter)*	**$680.00**

VFL OPTION Included as add-on		
VFL	*650nm Visual Fault Locator w/2.5mm adapter*	**$475.00**

PROBE OPTIONS Included as add-ons		
FP4S	*FP-400 single 400x video probe*	**$1,225.00**
FP4D	*FP-400 dual 200x/400x video probe*	**$1,595.00**

CONNECTOR ADAPTERS Included as add-ons w/ PM Option only		
FOA-22	*FC connector adapter (PC/SPC/UPC/APC), NEC-D3*	**$70.00**
FOA-32	*ST connector adapter (PC/SPC/UPC)*	**$70.00**
FOA-54	*SC connector adapter (PC/SPC/UPC)*	**$70.00**
FOA-98	*LC connector adapter*	**$140.00**
FOA-99	*MU connector adapter*	**$115.00**

SOFTWARE OPTIONS Included as add-ons		
SK1	*SmartKit including macrobending detection, pass/fail and fault finder*	**$630.00**
SK2	*IP testing software summary kit*	**$160.00**
SK3	*Fiber inspection probe software*	**$395.00**
SK1-SK2	*SmartKit (SK1) & IP testing (SK2)*	**$670.00**
SK1-SK3	*SmartKit (SK1) & Probe software (SK3)*	**$890.00**
SK2-SK3	*IP testing (SK2) & Probe software (SK3)*	**$490.00**
SK1-SK2-SK3	*SmartKit (SK1), IP testing (SK2) & Fiber Inspection probe software (SK3)*	**$900.00**

CONNECTORS / ADAPTERS Included as add-ons	
EI	*UPC , standard connector*
EA	*APC, standard connector*
EUI-89	*FC connector adapter narrow key*
EUI-90	*ST connector adapter (for EI only)*
EUI-91	*SC connector adapter*
EUI-95	*E-2000 connector adapter (for EI only)*

FTB-200
Compact Modular Test Platform

Testing today's networks requires a supertech. EXFO understands that technicians need to span various mediums, layers and technologies. With this reality in mind, EXFO designed the FTB-200 Compact Platform for multilayer, multimedium testing.

The FTB-200 was designed for supertechs in the field that perform tests on optical and copper for metro/access and FTTx networks. This task requires a compact platform optimized for time-efficient automated tests and in-depth troubleshooting and analysis. The FTB-200 is ideal for testing.

Bidirectional trace analysis*
Improve the accuracy of your loss measurements with the bidirectional averaging feature, which uses OTDR acquisitions from both ends of a fiber span to average loss results for each event.

Efficient multifiber testing with Template Trace
Reduce testing time when commissioning a large number of fibers by using the Template Trace mode. This mode dynamically compares new OTDR results with a trace you assign as a reference. Reference trace documentation is automatically pasted onto new acquisitions to save you time.

Professional report generation
User-configurable test reports and batch printing let you generate complete, professional OTDR reports quickly and efficiently.

Features
- Modules that test up to four wavelengths
- FTTx-optimized modules that combine multimode and singlemode network functions
- Future-proof - compatible with future module designs
- Backward compatible with the FTB-7000B/C generation OTDRs and FTB-3930 OLTS
- Rugged design meeting GR-196-CORE requirements
- Extended battery life of up to 8 hours for OTDR modules

SPECIFICATIONS

Display	Touchscreen, color, 640 x 480 TFT 163 mm (6 7/16 in)
Storage	Internal 80 MB (Flash) USB sticks 1 GB and 2 GB (optional) Compact Flash cards (optional)
Battery type	Rechargeable Li-Ion 8 h of operation as per Bellcore TR-NWT-001138
Size (H x W x D)	322 mm x 197 mm x 109 mm
Weight	5.4 lb
Operating temperature	23 °F to 122 °F
Storage temperature	-40 °F to 158 °F
Vibration	< 1.5 g at 10 Hz to 500 Hz (on three main axes
Mechanical shock	< 760 mm on six sides and eight main edges (according to GR-196-CORE)
POWER METER SPECIFICATIONS	
Calb. Wavelength (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm)	10 to —86 (InGaAs) 26 to —64 (GeX)
Uncertainty (%)	±5 % ± 3 pW (InGaAs) ±5 % ± 0.4 nW (GeX)
Display resolution (dB)	InGaAs 0.01 = max to —76 dBm 0.1 = —76 dBm to —86 dBm 1 = —86 dBm to min GeX 0.01 = max to —54 dBm 0.1 = —54 dBm to —64 dBm 1 = —64 dBm to min
Automatic offset nulling range	Max power to —63 dBm for InGaAs Max power to —40 dBm for GeX
Tone detection (Hz)	270/1000/2000

BuILT-IN POWER METER SPECIFICATIONS	
Calb. Wavelength (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm)	10 to —86 (InGaAs) 26 to —64 (GeX)
Uncertainty (%)	±5 % ± 3 pW (InGaAs) ±5 % ± 0.4 nW (GeX)
Display resolution (dB)	InGaAs 0.01 = max to —76 dBm 0.1 = —76 dBm to —86 dBm 1 = —86 dBm to min GeX 0.01 = max to —54 dBm 0.1 = —54 dBm to —64 dBm 1 = —64 dBm to min
Automatic offset nulling range	Max power to —63 dBm for InGaAs Max power to —40 dBm for GeX
Tone detection (Hz)	270/1000/2000

ORDERING INFORMATION

TK-200-S1-D3	*Modular Link Characterizer Test Kit (SM)*	**$8,465.00**
TK-200-S1-D16	*FTB-200 with (MM) 850/1300 (27/26db)*	**$9,140.00**
TK-200-S1-D15	*FTB-200 with MM/SM Quad Module*	**$13,320.00**

PLEASE CALL FOR CONFIGURATIONS

FTB-500

Modular Test Platform

The result of over 10 years of proven leadership in multimodular test platforms, the FTB-500 delivers a whole new spectrum of network testing possibilities, a whole new testing paradigm: more advanced applications, faster setups, test cycles and reporting, wireless communication and reporting, and universal compatibility with all EXFO FTB modules, past, present and future.

Features

- Full fiber characterization: industry-renowned OTDRs combined with the most advanced dispersion analyzers
- Industry-exclusive: distributed PMD analysis
- 10G, 40G and 100G-ready
- Most compact and powerful Ethernet, SONET/SDH, OTN and Fibre Channel analyzers
- Four-slot or eight-slot configurations
- Universal wireless connectivity
- Full backward compatibility with all FTB modules

SPECIFICATIONS

Display	Touchscreen, color TFT, 800 x 600 TFT, 307 mm (12.1 in)
Storage	Internal 80 GB hard drive minimum with G-shock protection Flash USB drive (1 GB, 2 GB and 8 GB optional) ExpressCard memory card (16 GB and up, optional) External USB read/write DVD drive (optional)
Interfaces	Ethernet port Fiber probe port ExpressCard port 34 mm format Serial RS-232 port Monitor port Four USB 2.0 ports Standard PC Mic in and Speaker out ports (3.5 mm)
Battery type	Eight-slot configuration: three rechargeable Li-ion, smart batteries (total of 207 W•h) Four-slot configuration: two rechargeable Li-ion, smart batteries (total of 138 W•h)
Power supply	100–240 VAC, 50/60 Hz
Weight	Eight-slot configuration: 10.9 kg (24 lb) Four-slot configuration: 8.5 kg (18.7 lb)
Size (H x W x D)	Eight-slot configuration: 366 mm x 296 mm x 216 mm (11 11/16 in x 14 7/16 in x 8 1/2 in) Four-slot configuration: 366 mm x 296 mm x 146 mm (11 11/16 in x 14 7/16 in x 5 3/4 in)
Operating temperature	32 °F to 122 °F
Storage temperature	–40 °F to 158°F
BUILT-IN POWER METER SPECIFICATIONS	
Calibrated wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm)	10 to —86
Uncertainty (%)	±5 % ± 3 pW (up to 5 dBm)
Display resolution (dB)	0.01 = max to —76 dBm 0.1 = —76 dBm to —86 dBm
Automatic offset nulling range	Max power to —63 dBm
Tone detection (Hz)	270/1000/2000

FTB-500 8-slot platform

- Distributed PMD analysis
- Full fiber characterization
- 100 Gbit/s testing applications
- ROADM/POTS and 40 Gbit/s testing

FTB-500 4-slot platform

- ROADM and PTN turn-up testing
- CWDM turn-up testing
- Multiservice testing
- Gigabit/10 Gigabit Ethernet configurations

PLEASE CALL FOR CONFIGURATIONS

NOYES-M200
Handheld OTDR

The Noyes M200 from AFL Telecommunications offers unmatched OTDR capabilities in a handheld package weighing less than 1 kg (2 lb). Multimode, Singlemode, and 'Quad' wavelength models are offered. With short dead zone and intermediate range specifications, the M200 is ideal for Tier 2 testing of premises (building and campus) networks or certification and troubleshooting of FTTx PON networks. Its bright display makes it suitable for both indoor and outdoor operation.

The M200 is based on a new hardware/software platform that supports automatic and manual setup, precision event analysis, dual-wavelength testing, fiber identification using Noyes 'TR' test receivers, rich file naming and folder setup, 6 hour battery life, internal and removable media data storage, and USB connectivity. Test ports are equipped with tool-free adapters, which can be changed in seconds. A custom-designed polycarbonate case and shock-absorbing boot make the M200 our most rugged OTDR ever.

Results are saved as industry standard .SOR files, which can be viewed, printed, and analyzed on a PC using free-ware available to you and your customers. Unit firmware, user settings, and test results are saved in non-volatile memory. Thus the M200 may be stored with battery removed for an extended period of time and still be up and running in seconds when needed.

Features
- Integrated VFL (650 nm)
- 22 dB (MM), 26 dB (SM) dynamic range
- Bellcore (GR-196) .SOR file format
- Handheld, 0.9 kg (2 lb)
- 850/1300/1310/1550 nm

Applications
- Tier 2 testing of premises networks
- FTTx PON certification and troubleshooting
- Fast fault location
- Splice verification
- Network documentation

NOYES Test & Inspection

SPECIFICATIONS

	Multimode	Singlemode
Wavelength (nm)	850/1300	1310/1550
Event Dead Zone (m) [1]	1.5	
Attenuation Dead Zone (m) [2]	9	
Dynamic Range (dB)	22	26
Distance Range	250 m to 64 km	250 m to 208 km
Data Points	Up to 16 000	
Storage Capacity	> 100 internal; thousands on Compact Flash	
Ports	USB, RJ-45	
Trace File Format	Bellcore GR-196, Version 1.1	
Size (H x W x D)	230 mm x 110 mm x 70 mm (8.8 in x 4.3 in x 2.8 in)	
Weight	0.9 kg (2 lb)	

All specifications are subject to change.
1. Typical distance between the two points is 1.5 dB down each side of a reflective spike caused by a -40 dB (Multimode) or -45 dB (Singlemode) event using 10 ns pulse width.
2. Typical distance from event location to point where trace is within 0.5 dB of back scatter.

Package Includes:
- M200 SM, MM or QUAD OTDR
- 110/220 VAC power adapter with counrty-specific power cord
- Rugged, soft-sided carry case with shoulder strap
- User guide

ORDERING INFORMATION

M200-K-SM	*1310/1550 nm Singlemode OTDR, Test Port Adapters: (1) ST, (1) FC**	**$5,995 .00**
M200-K-MM	*850/1300 nm Multimode OTDR, Test Port Adapters: (1) ST, (1) SC**	**$6,295.00**
M200-K-QUAD	*850/1300 nm Multimode and 1310/1550 nm Singlemode OTDR, Test Port Adapters: (1) ST, (2) SC, (1) FC**	**$8,995.00**

*LC test port adapters are available (order separately)

OFL-280 FlexTester

Handheld PON OTDR

The Noyes OFL280 FlexTester offers an unmatched combination of fiber optic test functions, ease-of-use, portability, and value. All OFL280 FlexTester models include an integrated single-mode 1310/1550 nm OTDR with PON-optimized and standard test modes, optical power meter, 1310/1550 nm laser source, and visual fault locator.

Features

- Standard OTDR, PON OTDR, live fiber OTDR, and FTTx PON meterall from the same test port
- 1.0 m event dead zone, 3.5 m attenuation dead zone
- 34 dB dynamic range
- Fast Real Time OTDR mode
- Internal storage (>1000 OTDR traces in standard .SOR format)
- High-contrast display is clear and bright in any lighting condition,including direct sunlight
- Transfer test results to a PC via USB
- Short power-on time (< 5 sec)

Applications

- PON OTDR - FTTx PON construction certification
- Live Fiber OTDR - FTTx service turn-up and troubleshooting
- Full Auto OTDR - Normal (point-to point) fiber cable construction testing and fault location
- Real Time OTDR - Fault location, splice verification, first connector checker
- End Locator - Quickly locate breaks or measure fiber length
- Optical Power Meter - Measure optical power or fiber loss
- Laser Source - Measure end-to-end loss or trace fibers using the tone feature and a Noyes OFI
- Visual Fault Locator - Red laser for fiber bend/break location and tracing

SPECIFICATIONS

Display	LCD, 320 x 240, 3.5 inch (89 mm), color, high-contrast transflective with backlight and AR coating
Battery	10 hours, backlight ON, continuous operation
Power	Rechargeable Li-Ion or AC adapter
Weight	1.7 lb
Size	7.5 x 4.4 x 1.9 in
Operating temperature	-10 to +50°C, 0 to 95% RH (non-condensing)
Storage temperature	-20 to +60°C, 0 to 95% RH (non-condensing)
POWER METER SPECIFICATIONS	
Calibrated wavelengths (nm)	1310, 1490, 1550, 1625, 1650 nm
Measurement range (dBm)	+23 to – 50 dBm
Tone Detect Range	+3 to -35 dBm
Wavelength ID Range	+3 to -35 dBm
Accuracy	± 0.25 dB
Resolution	0.01 dB
Measurement Units	dB, dBm or Watts
Laser Source	
Emitter Type	Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03
Fiber Type	Single-mode
Available Wavelengths (nm)	1310, 1490, 1550
Wavelength Tolerance	± 20 nm
Spectral Width (FWHM)	2 nm (maximum)
Internal Modulation	1 kHz, 2 kHz, CW
Wavelength ID (one, two, or three wavelengths)	Compatible with Noyes Optical Power Meters and Light Sources
Output Power Stability	0.25 dB
Output Power (nominal)	– 3 dBm

SPECIFICATIONS

Visual Fault Locator	
Emitter Type	Laser
Safety Class	Class II FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03
Wavelength	650 nm
Output Power (nominal)	0.8 mW into single-mode fiber
PON POWER METER for Single-mode only	
Calibrated Wavelengths	1490, 1550 nm
Detector Type	Filtered InGaAs
Isolation	> 40 dB
Measurement Range	+23 to – 50 dBm
Accuracy	± 0.5 dB
Resolution	0.01 dB
Measurement Units	dBm or watts

ORDERING INFORMATION

OFL280-102	*FTTx construction OTDR*	**$6,195.00**

Includes: Carry case, SC adapter, 2.5 mm Universal adapter, 2.5 mm Universal adapter, USB cable, AC power adapter with a country specific power cord, and user guide.

OFL280-103	*FTTx installation (live fiber) OTDR*	**$6,995.00**

Includes: Filter to test live FTTx fibers @ 1625 nm, and a PON power meter to measure downstream (1490/1550 nm) power levels on FTTx networks – Carry case, SC adapter, 2.5 mm Universal adapter, 2.5 mm Universal adapter, USB cable, AC power adapter with a country specific power cord, and user guide.

T-BERD-4000

Multiple Services Test Platform

The T-BERD 4000 is a highly integrated platform that features two module slots, a large 7-inch color screen (with a touchscreen option), a high-capacity Lithium-Ion battery, an optional video inspection scope (through universal serial bus [USB] port), and optional built-in optical test functions, such as a visual fault locator (VFL), power meter, and optional WiFi/Bluetooth interface.

SPECIFICATIONS

Display	TFT color, 7-in, LCD 800 x 480, high visibility for outdoors, Touchscreen,TFT color, 7-in, LCD 800 x 480, high visibility for outdoors
Storage and I/O Interface	Internal memory
WiFi	Standard IEEE 802.11 b/g
Bluetooth	Class 2, up to 10 m range
Audio interface	2.5 mm jack connector
Ethernet	10/100/1000 MHz full-half duplex
Battery type	Standard removable Li-Ion batteries
AC/DC adapter	Input 100-250 V, 50-60 Hz Output 12-15V DC/3.7 A
Electrical safety	EN 60950 Compliant
Operation time	Up to 11 hours with standard display Telcordia GR-196-CORE
Size (W x H x D)	10.2 x 5.3 x 3.5 in
Weight	Mainframe only (with battery) 3 lb Mainframe with one module (with battery) <4.35 lb
Environmental Specifications	
Operating temperature range (no option)	–4 to 122°F
Operating temperature range (all options)	32 to 104°F
Humidity, non-condensing	95%
Base Unit Optical Interfaces (optional)	
Power Meter	
Power level	+10 to –60 dBm
Calibrated wavelengths	850, 1310, and 1550 nm
Connector type	Universal push/pull (UPP)
Visual Fault Locator	
Wavelength	635 nm ±15 nm
Output power level	<1 mW
Laser safety	Class 2 laser
Connector type	Universal push/pull (UPP)
Quick Capture Probe Kit (via USB)	
Magnification	200X and 400X
Interface	through the USB port
Tips	FC, SC, SC-APC, LC, U25, U25MA, U12

Features

- Cost-effective, dual-modular and handheld platform
- Large 7-inch display (touchscreen option)
- Comprehensive connection checker functionality with built-in VFL, power meter, and scope
- Flexible connectivity including USB, high-speed 1G Ethernet,WiFi, and Bluetooth interfaces
- Automated test and data reporting capability
- Integrated web browser

Broadband Power Meter

The T-BERD/MTS-4000 comes with optional built-in power meters that let technicians easily verify the presence of a signal. The large screen of the T-BERD/MTS-4000 displays power values in large fonts, allowing for immediate interpretation of results.

Visual Fault Locator

The VFL features, available as an option on the T-BERD/MTS-4000 platform, offers built-in 635 nm visual fault location on a universal connector.

Video Inspection Probe

The optional fiber inspection probe facilitates the Inspect Before You ConnectSM process. The T-BERD/MTS-4000 offers this capability through a USB port connection, which allows for quick and easy inspection of connector end faces for contamination and also enables capturing the image and storing it in jpeg format.

Ethernet Testing

The T-BERD/MTS-4000 enables Internet connectivity testing using an integrated Web browser and also performs required Internet Protocol (IP) data tests, including IP Ping and File Transfer Protocol (FTP) testing, to verify bandwidth requirements for real-time applications and services (such as online gaming and streaming video).

ORDERING INFORMATION

TB4-DIS-LMD-S	*JDSU T-BERD-4000 Handheld OTDR*	**$5,490.00**

Includes: Handheld platform w/ super-size 7" landscape high res. color display, Short Range (32/30dB 1310/1550nm) SM OTDR Module w/ Light Source/Power Meter option in module, UPC Connector, SC connector adapter, wrap-around carrying case, AC Adapter, Manuals

PLEASE CALL FOR CONFIGURATIONS

T-BERD 6000/T-BERD 6000A

Compact OTDR Solution

T-BERD 6000

JDSU's T-BERD 6000 isa compact and lightweight test platform designed for the installation and maintenance of fiber networks. It provides field service technicians with the highest levels of performance and upgradeability on the market today.

Modular in design, the T-BERD 6000 offers an extensive portfolio of test functionality with over forty different fiber modules supporting a wide range of applications. The versatility of the T-BERD 600 allows technicians to standardize using one type of test equipment and then introduce new testing capabilities in the field without incurring additional costs.

Since the T-BERD 6000 is compatible with out existing fiber module product line, technicians can exchange plug-in modules between the T-BERD 800 Multiple Network Test Platform and the T-Berd 6000, in the field and without the need for additional tools. To ensure the highest level of return on your test equipment capital investment, existing OTDR modules from the MTS-5100 can be transformed (with and extension) for use with the T-BERD 6000

T-BERD 6000A

The JDSU TB-6000A is a highly intergrated test platform desighned for all phases of network lifecycle from the installation to the highest levels of performanse and upgradeability on the market today.

Modular in design, the TB-6000A offers an extensive portfolio of test functionality with over forty different modules supporting a wide range of applications. The versatility of the TB-6000A allows technicians to standardize using one type of test equipment and then introduce new testing capabilities in the field without incurring additional training and device costs.

Key Features

- Lightweight platform
- Large 8.4 inch transreflective TFT color display improves viewing under any conditions.
- Intuitive graphical user interface with touchscreen option
- Extended battery life using smart Lithium ion cell.
- Connection Check with VFL, power meter, Loss Test Set/ ORL meter and video inspection scope options
- Built-in optical talkset option for communicating along the fiber.
- Unique automatic bi-directional analysis function available to save up to 50% test time for OTDR, IL, and ORL measurements.
- Fast data transfer via USB, Ethernet port and 1Gb extended memory option.
- Exceeds Telcordia specifications for ruggedness, drop testing, and extended battery life

SPECIFICATIONS

Wavelength (nm)	1310 / 1550 ±20
Event Dead Zone (m)	2.5
Attenuation Dead Zone (m)	8
Dynamic Range (dB)	32 / 30 (1310 / 1550 nm)
Distance Range	Up to 260 km
Data Points	Up to 128,000
Storage Capacity	1000 test results
Ports	(2) USB, (1) RJ-45
Display Size	TFT color, 8.4", LCD 800 x 600, high visibility (standard)
Size (H x W x D)	285 x 195 x 93 mm (11.2 x 7.7 x 3.7 in)
Weight	3.4 kg (7.5 lb)

ORDERING INFORMATION

ETB-6000	*T-BERD 6000 platform with high visibility color display and battery pack*
ETB-6000T	*T-BERD 6000 platform with high visibility touchscreen color display and battery pack*
TB-6000AT	*TB-6000A platform with high visiblity touchscreen color display and battery pack*

Additional Parts

E60EXTMEM	*Extended Memory*
E80VFL	*VFL with UPP connector*
E80TS	*Optical talkset*
E80PM	*Optical power meter with UPP connector (2.5 mm provided as standard)*
E8036LTSTS	*Optical loss test set with talkset*
E80lighter	*Cigarette lighter power adapter*
E60LIHP1	*Additional high power Li-ion rechargable battery*

Main Modules (single slot plug-in modules)

E81xxSR, E81xxDR, E81xxHD, E81xx-VLR, E81xxUHD, E8123MM	*OTDR module*
E81PMD, E81WDMPMD	*PMD module*
E81WDM	*WDM module*
E5083CD	*CD module*
E81xxOFI	*OFI module*

Application Software

E0FS100	*Optical FiberTrace software(for port analysis)*
E0FS200	*Optical FiberCable sofware (for acceptance report generation)*

Optical connectors for the loss test set and talkset options (connector must be of the same type)
Field replaceable connertors: EUNIPCFC, EUNIPCSC, EUNIPCST, EUNIPCDIN, EUNIPCLC, EUNIAPCFC, EUNIAPCSC, EUNIAPCST, EUNIAPCDIN, EUNIAPCLC

PLEASE CALL FOR CONFIGURATIONS

T-BERD 8000

Comprehensive Optical Network Platform

The T-BERD 8000 is a field-scalable optical test platform for both installation and maintenance. Based on the rich T-BERD heritage, the T-BERD 8000 is the industry's most innovative and cost-effective test solution for metro networks. A single Transport Module provides an integrated solution for Ethernet, SONET, SDH, PDH, and T-carrier networks. Optical Modules allow thorough testing of short-haul, long-haul, FTTx, CWDM, DWDM and ROADM networks.

SPECIFICATIONS

Display	TFT color, 10'4 in, LCD 800x600 TFT color, 10'4 in, LCD 800x600, High visibility Touchscreen TFT color, 10'4 in, LCD 800x600, High visibility
Storage	Internal memory 16 MB Hard disk (optional) min 20 GB Floppy disk drive (optional) 3.5 in MSDOS compatible CD read/write (optional)
Input/Output	RS232C x USB, VGA, RJ45 Ethernet RJ11 modem (optional)
Battery type	Standard removable Li-Ion batteries
Operation time	Up to 16 OTDR hours with two batteries and standard display, Telcordia GR-196-CORE
Internal charger	Yes
Charging time	<3 hours per battery
DC input	19 to 25 V
Power supply	Input 100 to 240 V
AC/DC adapter	50 to 60 Hz, 1.8 A, out put 19 V DC/3.1 A
Size (W x H x D)	Mainframe w/ back plate 12.6 x 10.4 x 2.1 Unit w/receptacle + battery pack 12.6 x 10.4 x 4.5
Weight	Mainframe w/ back plate 6.39 lbs Unit w/receptacle + battery pack 11.9 lbs
Operating temperature range (no option)	-4 °F to 122 °F
Operating temperature range (all options)	-4 °F to 140 °F
Strorage	-4 °F to 140 °F
Humidity	95% without condensing
EMI/ESD	CE compliant

Features

- Configure with numerous application modules and a variety of storage media, including USB memory stick, and read/write CD-ROM.
- All application modules are field-installable so that existing MTS-5000 users can simply field install the optical plug-in by adding an extender.
- A Large color transreflective display is offered as standard for improved visibility for use in direct sunlight. A touchscreen option is available.
- Base unit can house Visual Fault Locator(635 nm), Power Meter (800 to 1650 nm),Loss Test Set/ORL meter, as well as Optical Talkset (45 dB) options
- Optical Talkset allows both communication and file transfer.
- Comprehensive suite of PC software tools for post-processing of test results via FiberTrace (OFS-100) and FiberCable (OFS-200)

ORDERING INFORMATION

ETB8000bt	*T-Berd 8000 Tester Mainframe ONLY*	**$5,659.50**

PLEASE CALL FOR CONFIGURATIONS

OTDR Module Specifications

	High perfomance multimode MM	Short range singlemode SR	Medium range singlemode DR	Longe range singlemode HD	Very long range singlemode VLR	Ultra long haul singlemode UHD
Central wavelength	850/1300 nm ± 20 nm	1310/1550 nm ± 20 nm	1310/1550 nm ± 20 nm	1310/1550/1625 nm ± 20 nm ± 10 nm for 1625 nm	1310/1550/1625 nm ± 20 nm	1310/1550/1625 nm ± 20 nm ± 10 nm for 1625 nm
Laser saftey class (21 CFR)	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Pulse width	3 ns to 200 ns	10 ns to 10 µs	10 ns to 20 µs	10 ns 20 µs	3 ns to 20 µs	10 ns to 20 µs
Distance range	Up to 80 km	Up to 260 km	Up to 260 nm	Up to 380 km	Up to 380 km	Up to 380 km
RMS dynamic range	25 dB/23 dB	37 dB/35 dB	37 dB/35 dB	42 dB/40 dB/40 dB	45 dB/43 dB/ 43 dB	46 dB/50 dB/ 46 dB
Event dead zone	1.5 m	1 m	1 m	4 m	0.8 m	4 m
Attenuation dead zone	5 m	8m	15 m	15 m	4 m	15 m

AFL Hand-held OTDRs

M200
(Single-mode, Multimode, QUAD)

OFL250-50
(Fault-locating OTDR)

OFL280 FlexTester
(Single-mode)

For more details check page 23-24

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PRO Precision Rated Optics

PRO - 3533 OTDR

1310/1550 Wavelength 35/33dB

PRO-3533 is a portable OTDR which is stable and durable and aims at broadcast and telecommunications network measurement. It is also the first OTDR to achieve data share of point-to-point and point-to-multipoint via internet. User can remotely control this instrument via PC when conducting fiber maintenance and testing.

PRO - OTDR

Handheld OTDR

The PRO OTDR handheld series supports averaging and real-time tests featuring compact design, excellent stability, user-friendliness and cost-effectiveness. The hotkeys enable convenient events review and analysis. A variety of models are available for singlemode/multimode fibers and LAN/WAN/FTTx applications. With TraceManager software, you can save and transfer test data from OTDR to PC for further analysis, reporting and printing.

SPECIFICATIONS

Specfications	Pro-MM-18/22
Wavelength (±20nm)	850/1300
Dynamic Range	18/22dB
Event Deadzone (m)	7
Attenuation Dead-zone (m)	20
Multimode	Yes
Selectable Range (km)	0.1,0.3,0.5,1.3,2.5,5.0,10@850nm; 0.1,0.3,0.5,1.3,2.5,5.0,10,20,40,80@1300nm; 0.3,1.3,2.5,5.0,10,20,40,80,120,160,240@others
Pulse Width	12ns,30ns,100ns,275ns,1μs@850nm; 12ns,30ns,100ns,275ns,1μs,2.5μs@1300nm; 5ns,10ns,12ns,30ns,100ns,275ns,300ns,1μs,2.5μs,10μs,20μs@others
Averaging Time	15s,30s,1min,2min,3min
Distance Measure Accuracy	±(1m + 5×10^{-5} × distance + sampling space)
Attenuation Detect Accuracy	±0.05 dB / dB
Reflection Detect Accuracy	±4dB
Data Storage	1000 records
Connectivity	USB/RS-232
Connector	FC/PC (Interchangeable SC, ST)
Power Supply	NiMH Battery / AC Adapter
Battery Life	8 hours continuous operation; 20 hours standby (on one charge)
Operating Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Relative Humidity	0~95% (non-condensing)
Weight	1kg (2.2 lbs)
Dimensions (H×W×T)	220×110×70mm (8.7×4.3×2.7 inch)
Visible Fault Locator	(Only available with Type B/N and C/N)
Output Power (dBm)	= -3
Max Measurement Range	5 km

ORDERING INFORMATION

PRO-MM-18/22	*MM (850/1300) OTDR:18/22dB (7m DZ)*	**$4,130.00**

OPTIONAL ACCESSORIES

FOM-CT-001	*Fiber Optic Cleaning Cassette*	**$85.00**
FOM-CT-004	*Cleaning Cassette Replacement Reel*	**$25.00**
FOM-9000	*650nm Pocket Visual Fault Locator*	**$250.00**
9392	*IBC Cleaner (2.5mm) Cleaning Tool*	**$63.99**
9393	*IBC Cleaner (1.25mm) Cleaning Tool*	**$63.99**

PRO - 3000 OTDRs

Handheld OTDR

The PRO-3000s is a portable OTDR which is stable + durable and aims at broadcast and telecommunications network measurement. It is also the first OTDR to achieve data share of point-to-point and point-to-multi-point via internet. Use can remotely control this instrument via PC when conducting fiber maintenance and testing.

Features

- Remotely control the instruments via internet*
- 6.4" color TFT LCD
- Convenient one-button testing
- High-speed signal processing, less measurement time, and faster result analysis
- USB port, SD card slot, and Ethernet Port
- Compact and lightweight
- Shock and water proof, the battery typicaly exceeds 10 hours of working time
- Linux operating system for easy upgrade
- Battery is changeable, on site
- Supporter for hand-free testing
- Anti-shock rubber protection

1310/1550 Wavelength

Specifications

Distance (Km)	5m-200km
Pulse width(ns)	5ns-20μs
Measurement time	user-defined (smart link) with real-time measurement function
Distance uncertainty(m)	±(0.5m ±0.001%×testing distance±resolution)
Linearity	±0.05dB/dB
Loss threshold(dB)	0.01dB
Loss resolution(dB)	0.001dB
Distance resolution(m)	0.1m
Sampling points	64000
Data storage	1000 items (PRO-3533/PRO-3331) / 2000 items (PRO-3735)
Display	6.4 inch TFT color LCD
Fiber adapter	FC/PC SC/PC
Interface	USB(Principal and subordinate each),SD,RJ45
Battery	built-in rechargeable Li-ion battery (charging time <4 hours, working time >10 hours)
Power	AC/DC adapter (Input AC90-240V ±10%,Output DC18V)
Operating temperature	-10°C~40°C (14°F~104°F)
Storage temperature	-40°C~70°C (-40°F~158°F)
Relative humidity	<80%
Weight	<2.5Kg (<5.51 lbs)
Dimensions (mm)	248×201×75mm (9.76 x 7.91 x 2.95 in)

ORDERING INFORMATION

Type	wavelength (nm)	dynamic range (dB)	event dead zone (m)	attenuation dead zone (m)	Price
PRO-3331	1310±20/1550±20	33/31	<1.5m	<10m	**$5,080.00**
PRO-3533	1310±20/1550±20	35/33	<1.5m	<10m	**$6,220.00**
PRO-3735	1310±20/1550±20	37/35	<1.5m	<10m	**$7,050.00**

Included Accessories

OTDR, AC-DC power adapter/charger, FC adapter, SC adapter, Manual, USB cord, Carrying bag, Toolbox software CD, SD card (1gb)

PRO OBL-201A / OFL-301A

Optical Break / Fault Locator

The OBL-201A and OFL-301A are a high performance optical fiber troubleshooter for locating fiber breaks and imperfections. It detects the break location in the optical fiber and displays the result on the LCD screen. This portable and easy to use device is an ideal instrument for fiber cable construction and maintenance.

Applications:

- FTTx fiber certification
- CATV technicians (Field verification of fiber continuity)
- MDU installation (Verification od fiber continuity)
- Any application where affordable, "distance to break" testing is required

Features

- Short Dead Zone 3m
- Backlight for easy operation in low light
- Rechargable batteries
- Data transfer via USB interface
- Ienterchangable (SC/ST/SC) connectors

OBL-201A:
Programed to find one fault at a time

OFL-301A:
Programed to find multiple faults at a time

SPECIFICATIONS

Item / Model No.	OFL - 301A	OBL-201A
Fiber Type	9/125 µm Single Mode	
Wavelength	1550 ± 20 nm	
Emitter Type	LD	
Connector Type	FC/SC/ST	FC/PC (interchangeable SC,ST)
Pulse Width	10ns/20ns/40ns/80ns/160/ns/320ns/640ns/1280ns/2560ns/5120ns/12400ns/24800ns (auto-switch)	
Max. Output Power	100 mW	
Max. Measurement Range	130 Km	
Distance Accuracy	+/- (0.8 m + 0.001% x Distance)	
Data Storage	999 Measurements	
Event Dead Zone	3 m	
Power Supply	AC/DC adaptor &. rechargable batteries 4	
Battery Life	15,000 times measurement	
Operating Temp.	14~122°F (-10 ~ +50°C)	
Strorage Temp.	-4 ~ 140°F (20 ~ +60°C)	
Humidity	0 ~ 85% (non-condensing)	
Communication Port	Mini USB	
Weight	10 oz. (286 g)	
Dimension	7.5 x 4.1 x 2.1 in (190 x 105 x 55 mm)	

ORDERING INFORMATION

OBL-201A	*OBL - 201A*	**$1,895.00**
OFL-301A	*OFL - 301A*	**$3,225.00**

Standard Accessories
Rechargable NiHM battery(4 pcs), AC adapter, PC software and USB cable, travel bag, test report, and manual.

OPTIONAL ACCESSORIES

FOM-CT-001	*Fiber Optic Cleaning Cassette*	**$85.00**
FOM-CT-004	*Cleaning Cassette Replacement Reel*	**$25.00**
FOM-9000	*650nm Pocket Visual Fault Locator*	**$250.00**
9392	*IBC Cleaner (2.5mm) Cleaning Tool*	**$63.99**
9393	*IBC Cleaner (1.25mm) Cleaning Tool*	**$63.99**

AXS-200/850

Ethernet Test Set

Part of EXFO's wide-ranging Ethernet test offering, the AXS-200/850 Ethernet Test Set delivers comprehensive test functionalities without the typical complexity associated with Ethernet/IP testing. Whether for installing, turning up or maintaining Ethernet and IP services, the AXS-200/850 is ready to perform. Thanks to a feature set that includes bidirectional RFC 2544, traffic generation and monitoring, multistream background traffic, BERT, as well as IP connectivity tools such as ping and traceroute, this lightweight, handheld unit provides front-line technicians with all the tools they need to get through their test cycles quickly and efficiently.

AXS-850-XX-XX

Models
AXS-850 = Ethernet 10/100 Base-T electrical
AXS-850-1 = Ethernet 10/100/1000 electrical and GigE optical

Example: AXS-850-100optical-Cable_test

Note
a. Includes GigE electrical and GigE optical; available only with AXS-850-1.

Options
00 = Without options
100optical = Enable support for 100M optical interface
GigE = Enable support for 1000Base-T and GigE optical a
Cable_test = Cable test
TRAFFIC GEN = Traffic generation and monitoring test
MULTI_STREAM = Multiple streams
IPV6 = Internet protocol version 6

SFP UPGRADES

FTB-8590	SFP modules GigE/FC/2FC at 850 nm, MM, < 500 m
FTB-8591	SFP modules GigE/FC/2FC at 1310 nm, 10 km
FTB-8592	SFP modules GigE/FC/2FC at 1550 nm, 90 km
FTB-85910	SFP modules 100Base-FX, 1340 nm, MM, 2 km
FTB-85911	SFP modules 100Base-LX10, 1310 nm, SM, 15 km

BIDIRECTIONAL SFP UPGRADES

FTB-8596	SFP modules Bidir 1490TX 1310RX 1000BASE-BX10
FTB-8597	SFP modules Bidir 1310TX 1490RX 1000BASE-BX10
FTB-8598	SFP modules Bidir 1310TX 1490/1550RX 1000BASE-BX
FTB-8599	SFP modules Bidir 1550TX 1310RX 1000BASE-BX

Call For Pricing And Configuration

TESTING

RFC 2544	Throughput, back-to-back, frame loss and latency measurements according to RFC 2544. Frame size: RFC-defined sizes, user-configurable between 1-7 sizes.
Traffic generation and monitoring	Capability to generate traffic and monitor Ethernet and IP networks. Capability to perform traffic shaping with the following statistics: throughput, frame loss, sequencing, packet jitter, latency, frame size, traffic type and flow control
Multistream background traffic	Capability to transmit and monitor up to three additional streams over Ethernet and IP networks. Configurable per-stream analysis; capability to set packet size, MAC source/destination address, VLAN ID, VLAN priority, IP source/destination address, ToS field, DSCP field, TTL, UDP source/destination port and payload.
BERT	Up to layer 4 supported with or without VLAN Q-in-Q.
Patterns (BERT)	PRBS 2E9-1, PRBS 2E11-1, PRBS 2E15-1, PRBS 2E20-1, PRBS 2E23-1, PRBS 2E31-1 and one user pattern. Capability to invert patterns.
Bit error insertion	1-50
Error measurement	Jabber/giant, runt, undersize, oversize, FCS, symbol, alignment, collision, late collision, excessive collision.
Error measurement (BERT)	Bit error, bit mismatch 0, bit mismatch 1.
Alarm detection	LOS, link down, pattern loss, frequency.
VLAN stacking	Capability to generate streams with up to two layers of VLAN (including IEEE 802.1ad Q-in-Q tagged VLAN) traffic by VLAN ID or VLAN priority at any of the stacked VLAN layers.
Cable testing	Category 5 cable (or better), 100 Ω UTP/STP cable, ≤120 meters
Service disruption time (SDT) measurement	Includes statistics such as longest, shortest, last, average, count, total and pass/fail thresholds.
IPv6 testing	Includes BERT, RFC 2544, traffic generation and monitoring, background streams, Smart Loopback, remote loopback, ping and traceroute.

AXS-200/855
Part of the SharpTESTER Access Line

Whether for mobile backhaul, TDM/ISDN or Ethernet commercial services testing, the AXS-200/855 streamlines processes and seamlessly transitions from E1/DS1, DS3 or PRI circuits, to a full suite of Ethernet performance test functionalities without swapping modules or test units—using a single preloaded software package.

FTB-8510B and FTB8510G Packet Blazer
1 and 10 Gigabit Ethernet Test Modules

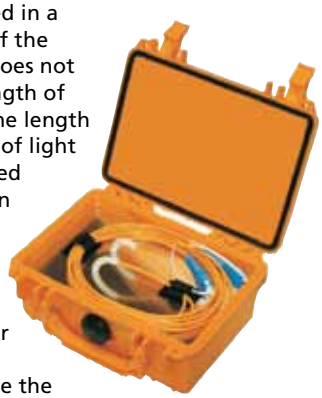
Housed in the FTB-400 and FTB-200 platforms, the FTB-8510B and FTB-8510G modules test Ethernet connectivity in its native format: 10/100/1000Base-T, 1000Base-SX, 1000Base-LX, 1000Base-ZX, 10GBASE-xR or 10GBASE-xW. They can also be used to test next-generation SONET/SDH, hybrid multiplexers, dark fiber or xWDM networks running 1 and 10 Gigabit Ethernet interfaces.

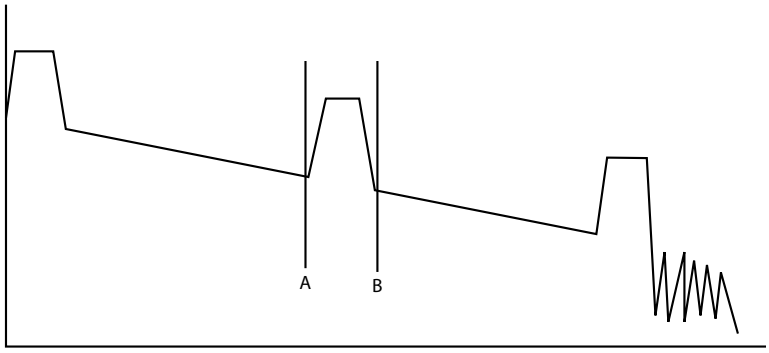
FTB-8120NGE and FTB-8130NGE Power Blazer
Next-Generation Multiservice Test Modules

Housed in the FTB-200 platform, the FTB-8120NGE (2.5/2.7 Gbit/s) and FTB-8130NGE (10/10.7 Gbit/s) Power Blazer test modules specifically address field commissioning and maintenance requirements, providing SONET/SDH and Ethernet test functions in the industry's smallest and most efficient form factor and setting a new standard for multiservice field testing.

Why Use a Launch Box?

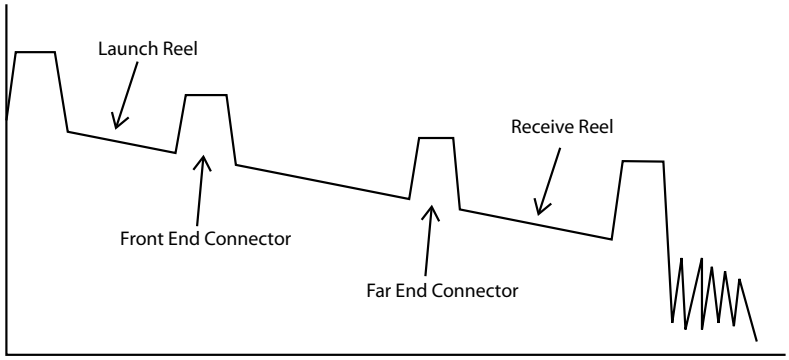
What is a pulse Suppresor or Launch Box? A pulse suppressor or launch box is a length of either of SM fiber or MM fiber coiled up in a case that is about 300m to 2.2Km in length.The whole length of the fiber is secured in a case and two patch cords usually extend from the case which are connected to the input and the output of the fiber. You may also hear the launch box being called a deadzone eliminator which is really a myth and it does not eliminate deadzones. If the Launch Box does not elminate the deadzone then why is it used? Adding a length of fiber before the initial connection will not eliminate that connection or deadzone it simply moves it out the length of the fiber added. The pulse of light will still have to transit this connection and it will scatter high levels of light and the result will be a Fresnel Refection with its associated deadzone. The deadzone will not be eliminated or effectually shortened in anyway. If the pulse of light remains the same length, the deadzone will remain the same length with or without a pulse suppressor. The only effective way to shorten a deadzone is to shorten the light pulse. A launch box is used to really identify the quality of the first connector within a fiber span. Without the use of a launch cord there is no linear backscatter before the first connector and there is no way to accurately measure loss or reflectance values of that first connector. With the use of a launch box the technician can now place a cursor (A) in front of the first connector and place the (B) cursor just after the reflection in order to accurately measure the initial connector loss. The analysis software in the OTDR can now also identify the true reflectance and loss value because of the linear backscatter before the initial connector due to the addition of the launch box.





What about the far end Connector?

Also, a launch box is sometimes used at the end of the fiber. A launch box is needed at the end of the fiber to verify the quality of the end connection. With a launch and receive cable the OTDR can now characterize both the front end and far end connections due to the addition of the fiber spools within the launch box. The backscattered signal can now be measured on both sides of the connectors allowing for loss and reflectance measurements of the near and far end.



The use of an OTDR is used to help identify all the characteristics of the fiber including splices, connectors and the quality of the fiber itself; however test fiber boxes are required to really test the quality of the front end and far end connectors.

Advantages:

- Identifies quality of front end and far end connectors for loss and reflectance
- Improves EMD in Mutimode fibers for more precise measurements
- Helps identify good launch levels from an OTDR using a good known lead in fiber.

Note: For the most accurate results the test fiber being used should match the fiber being tested such as type, core size and connector type. The length of the test boxes should be longer than the pulse width and needs to be long enough to show linear backscatter before the connectors.

10M-1G ETHERNET TESTER

SmartClass™ Ethernet

The SmartClass Ethernet provides an economical 1G Ethernet test set with optical and electrical interfaces that is an easy-to-use, entry-level Ethernet/IP tester for front-line technicians who support Metro Ethernet networks. The compact, rugged, and battery-operated SmartClass is ideal for technitions turning up Ethernet and Internet Protocol (IP) services in the field.

Key Features:

- Generates and measures L2/L3 traffic on up to 1G electrical or optical Ethernet interfaces with VLAN, Q-inQ tags, or Multiple Streams and Multiprotocol Label Swithing (MPLS) labels
- RFC2544 proves acceptance for Ethernet service level agreements
- MPLS Test checks for correct policing and prioritization in MPLS domains using the MPLS option
- Physical Layer tests verify integrity of the physical layer to pass traffic before testing throughput
- Ethernet Loopback completes the JDSU Ethernet field test portfolio

SmartClass Pricing and Configuration

CSC-ETHLP-P2	SmartClass Loopback Optical Configuration, SmartClass Ethernet handheld unit optioned for loopback on 10/100/1000Mbps Electrical and 1000Mbps Optical interfaces. Includes power charger, USB cable, RJ45 Ethernet cable, AA batteries, One Expert(TM) Handheld Manager software for easy result management, soft carry case. No SFPs or optical cables included in this configuration. To get those accessories, add the appropriate accessories or purchase the CSC-ETHLP-P3 package.	**$2,691.00**
CSC-ETHLP-P3	SmartClass Loopback Complete Configuration, SmartClass Ethernet handheld unit optioned for loopback on 10/100/1000Mbps Electrical and 1000Mbps Optical interfaces. Includes one 850nm SFP, one 1310nm SFP, fiber patch cables, power charger, USB cable, RJ45 Ethernet cable, AA batteries, One Expert(TM) Handheld Manager software for easy result management, soft carry case.Note this package contains all optical cables that would be considered necessary to properly use the optical option. Additional SFP's and cables available for purchase if needed.	**$3,141.00**
CSC-ETHTR-P1	SmartClass Ethernet Electrical Configuration, SmartClass Ethernet handheld unit optioned for traffic production on 10/100/1000Mbps electrical interfaces. Includes power charger, USB cable, RJ45 Ethernet cable, AA batteries, 'One Expert(TM) Handheld Manager' software for easy result management, soft carry case.	**$3,141.00**
CSC-ETHTR-P2	SmartClass Ethernet Optical Configuration, SmartClass Ethernet handheld unit optioned for traffic production on 10/100/1000Mbps Electrical and 1000Mbps Optical interfaces. Includes power charger, USB cable, RJ45 Ethernet cable, AA batteries, 'One Expert(TM) Handheld Manager' software for easy result management, soft carry case. No SFPs or optical cables included in this configuration. To get those accesssories, add the appropriate accessories or purchase the CSC-ETHTR-P3 package	**$4,486.50**
CSC-ETHTR-P3	SmartClass Ethernet Complete Package, SmartClass Ethernet handheld unit optioned for traffic production on 10/100/1000Mbps Electrical and 1000Mbps Optical interfaces. Includes one 850nm SFP, one 1310nm SFP, fiber patch cables, power charger, USB cable, RJ45 Ethernet cable, AA batteries, One Expert(TM) Handheld Manager software for easy result management, soft carry case. Note this package contains all optical cables that would be considered necessary to properly use the optical option. Additional SFPs and optical cables available for purchase if needed.	**$4,936.50**
CSC-MPLS	CSC-MPLS	**$440.00**
CSC-MPLS-U1	Software Option to support MPLS in the SmartClass Ethernet. This option enables the MPLS software in the SmartClass Ethernet product on units out in the field. For an option included in SmartClass products shipped from the factory, please use part CSC-MPLS. For this upgrade the SmartClass Ethernet ID# is required. To get this ID, from the main menu select System Settings then select Version Info(#2) and read the SCE ID Number. This option can only be enabled on Units with Software version 3 and above.	**$440.00**
CSC-MSTR	FACTORY INSTALLED Software Option to support Multiple Streams traffic generation in the SmartClass Ethernet. This option enables the Multiple Streams option in the SmartClass Ethernet product on units shipped from the factory. For a field upgrade, please use part CSC-MSTR-U1 ias this part does not support field upgrades	**$520.00**
CSC-MSTR-U1	Software Option to support Multiple Streams in the SmartClass Ethernet. This option enables the Multiple Streams option in the SmartClass Ethernet product on units out in the field. CSC-MSTR-U1 part is only for field upgrades. For an option included in SmartClass products shipped from the factory, please use part CSC-MSTR. For this upgrade the SmartClass Ethernet ID# is required. To get this ID, from the main menu select System Settings then select Version Info(#2) and read the SCE ID Number. This option can only be enabled on Units with Software version 3 and above.	**$520.00**
CSC-OPT-U1	User installable software option enabling the optical interface in traffic transmitting enabled SmartClass Ethernet. For this upgrade the SmartClass Ethernet ID# is required. To get this ID, from the main menu select System Settings (#5) then select Version Info(#2) and read the SCE ID Number.	**$1,196.00**

Accessories

CSC-OPT	Optical Option	CSC-MSTR-U1	Multiple Streams Field Upgrade	AC-SFP-CWDM-2	1491 nm CWDM SFP
CSC-TRF	Traffic Option	AC-SFP-1000LX	1000LX SFP	AC-SFP-CWDM-3	1511 nm CWDM SFP
CSC-MPLS	MPLS Option	AC-SFP-1000SX	1000SX SFP	AC-SFP-CWDM-4	1531 nm CWDM SFP
CSC-MPLS-U1	MPLS Field Upgrade	AC-SFP-1000ZX	1000ZX SFP	AC-SFP-CWDM-5	1551 nm CWDM SFP
CSC-ASY	Asy-RFC2544 Option	AC-SFP-1000BX1	1310 nm TX, 1490 nm RX, Single mode SFP	AC-SFP-CWDM-6	1571 nm CWDM SFP
CSC-ASY-U1	Multiple Streams Option	AC-SFP-1000BX2	1490 nm TX, 1310 nm RX, Single mode SFP	AC-SFP-CWDM-7	1591 nm CWDM SFP
CSC-MSTR	Multiple Streams Option	AC-SFP-CWDM-1	1471 nm CWDM SFP	AC-SFP-CWDM-8	1611 nm CWDM SFP + assorted cables

HST-3000
Handheld Service Tester

Key Features
- 3.8" diagonal, 1/4 VGA, Color Active Matrix display.
- Simplified user interface to facilitate ease-of-use and minimize technicians learning curve.
- Handheld, rugged and portable. Lightweight (1.3kg/2.7lb).
- Weather resistant. Ideal for field use.
- Battery operated (up to 10 hours). Swappable battery pack.
- RS-232, USB and Ethernet connectivity.
- PC replacement - including file transfer, 8MB of storage, VT100 emulation, printing and internet browser.
- Built-in microphone and speaker. Headset connection.

Highlights
- Support for Electrical and Optical Ethernet testing in a single module.
- IPv6 option to enable installation and troubleshooting of IPv6 networks.
- Modular hardware and software architecture is flexible and easily upgraded in the field.
- Supports Triple Play and FTTX testing, as well as TDM network testing.
- Future-proof solution for circuit-switch to packet-switch migration.
- Fully configurable - buy only what you need now, easily upgrade as needs change.
- Rugged, hand-held platform ideal for field use.

Applications
- Ability to perform traffic generation up to interface line rate and support automated RFC2544 at Layers 2 to 4 (Eth/IP/TCP/UDP).
- Ability to generate and analyze traffic with various encapsulation schemes such as VLAN, VLAN Stacking (Q-in-Q), and MPLS.
- PPPoE protocol support for emulation of data traffic in the last mile.
- FTTX and Triple Play testing - Advanced tests for the installation and maintenance of DSL and PON-based Triple Play IP voice, video, and data services.
- xDSL testing - verify the circuit and service with modem emulation and replacement for ADSL, ADSL2, ADSL2+, G.SHDSL, and VDSL2.
- Complete copper testing including DVOM, TDR, wideband TIMS, spectral noise, and resistive fault locator (RFL).
- GigE and 10/100 Ethernet - Generate traffic and troubleshoot Ethernet links, both optical and electrical, for point to point or routed networks.
- North American 'Special Services' - Turn-up and troubleshooting for North American business-class data services: Ethernet, T1, DS3, PCM TIMS, PCM
- Signaling, DDS-LL, Frame Relay, ISDN PRI, ISDN BRI, and Datacom.
- Global Business Services - Turn-up and troubleshooting for global business-class data services: Ethernet, E1, ISDN BRA, G.SHDSL, and Datacom.
- TechComplete - Improve xDSL processes through automation and centralized, web-based management tools.

HST Pricing and Configuration

HST-PKG1	HST 3000 base unit without copper test capability, ADSL/2/2+ Annex A ATU-R modem module, Advanced IP test functionality, FTP and web browsing, RJ-45 to clip lead cable to outside plant ADSL/2/2+ testing, Printed base unit manuals, CD test and troubleshooting manuals, Carrying case	**$3,995.00**
HST-PKG2	HST-3000 base unit with copper test capability, Combination copper (dual tip/ring and ground connectors) and ADSL/2/2+ Annex A ATU-R modem module, Advanced IP test functionality, FTP and Web browsing, DVOM functionality, TDR functionality, RJ-45 to clip lead cable to outside plant ADSL/2/2+ testing, Tip/ring/ground copper lineman cable set, Base unit manual, CD test and troubleshooting manuals, Carrying case	**$6,495.00**
HST-PKG3	HST-3000 base unit with copper test capability, Combination copper (dual tip/ring and ground connectors), Advanced IP test functionality, FTP and Web browsing, TDR functionality, Tip/ring/ground copper lineman cable set, Base unit manual, CD test and troubleshooting manuals, Carrying case	**$4,995.00**
HST-PKG4	Copper software upgrade includes RFL copper test option, Wideband TIMS test option, Spectral Analysis test option, Base unit manual, CD test and troubleshooting manuals, One-time firmware upgrade	**$1,995.00**
HST-PKG5	HST-3000 base unit without copper test capability, Dual port T1 testing module, PCM TIMS test option, PCM signaling test option, Cable kit for DS1 testing, VT-100 emulation feature, Pulse Shape software, Base unit manual, CD manuals for test applications, Carrying case	**$6,995.00**
HST-PKG6	HST 3000 platform without copper test capability, Dual port T1 testing module, PCM TIMS test option, PCM signaling test option, ISDN PRI option, VT-100 emulation feature, Pulse Shape software, Cable kit for DS1 testing, Base unit manual, CD manuals for test application, Carrying case	**$7,995.00**
HST-PKG7	HST-3000 base unit without copper test capability, Combination dual port T1 and DS3 testing module, PCM TIMS test option, PCM signaling test option, Cable kit for T1/DS1 testing, Cable kit for DS3 testing, VT-100 emulation feature, Pulse Shape software, Base unit manual, CD manuals for test application, Carrying case	**$8,495.00**
HST-PKG8	HST-3000 base unit without copper test capability, Combo dual port T1 and DS3 testing module, PCM TIMS test option, PCM signaling test option, ISDN PRI option, Cable kit for T1/DS1 testing, Cable kit for DS3 testing, VT-100 emulation feature, Pulse Shape software, Base unit manual, CD manuals for test application, Carrying case	**$9,495.00**
HST-PKG9	HST-3000 base unit with copper test capability, Combination Dual port T1 testing and copper testing module, DVOM, TDR, PCM TIMS test option, PCM signaling test option, ISDN PRI option, VT-100 emulation feature, Pulse Shape software, Cable kit for DS1 testing, Tip/ring cable set with ground lineman cable set, Base unit manual, CD manuals for test applications, Carrying case	**$9,995.00**

FiberOptic.com Calibration Service

The Fiber Optic Marketplace, LLC®

FiberOptic.com provides accredited calibration services to all branches of the fiber optic marketplace and specializes in the calibration of fiber optic/Lightwave instruments. FiberOptic.com offers calibration services for a full range of instruments including:

- Optical Power Meters (OPM)
- Attenuators (Single-mode and Multi-mode)
- Light Sources (LASER, LED, Broadband)
- Return Loss Meters / Precision Reflectometers
- Optical Spectrum Analyzers (OSA)
- Wavemeters
- Tunable Lasers
- Optical Time Domain Reflectometers (OTDR)
- PMD Analyzer
- Amplifiers (EDFA)
- Chromatic Dispersion Analyzer and more
- Test Kits

	Calibration Price		Expedited Calibration	
Instrument Type	**No Certification**	**Certification**	**No Certification**	**Certification**
OPM, One Channel (Handheld)	$324.00	$360.00	$352.00	$384.00
Optical Loss Test set (Source-OPM-Combo)	$648.00	$720.00	$688.00	$768.00
Return Loss Meter (total RL)	$567.00	$630.00	$600.00	$672.00
OSA	$1,377.00	$1,530.00	$1,472.00	$1,632.00
Tunable Laser	$810.00	$900.00	$864.00	$960.00
Light Source (DFB,FP,LED) Handheld	$405.00	$450.00	$432.00	$480.00
ASE Broadband Light Source	$729.00	$810.00	$776.00	$864.00
Attenuator	$486.00	$540.00	$520.00	$576.00
OTDR SM or MM	$729.00	$810.00	$776.00	$864.00
QUAD OTDR Modules (2x MM, 2x SM Lambda)	$1,458.00	$1,620.00	$1,552.00	$1,728.00
Chromatic Dispersion	$1,539.00	$1,710.00	$1,640.00	$1,824.00
PMD	$1,125.00	$1,251.00	$1,200.00	$1,336.00

STICKLERS Fiber Optic Cleaning Kit

This convenient kit includes all the cleaning supplies necessary for cleaning fiber optic connections.

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EXFO *POWER METERS & LIGHT SOURCES*

EXFO
EXPERTISE REACHING OUT

Introducing EXFO's FiberBasix testers, a series of handheld instruments designed to meet your basic day-to-day test requirements while helping you stay within budget. These worry-free, straightforward solutions provide the tools you need to accurately measure signal attenuation during fiber-optic cable installation.

EXFO FiberBasix 50 TEST KITS

Pocket-sized Optical Test Kits

FiberBasix 50 Handheld Testers deliver simple, accurate measurement of signal attenuation during fiber-optic cable installation. Buy the ELS-50 Light Source or EPM-50 Power Meter individually, or choose from five test kits designed for specific users/testing needs: LAN, outside plant, contractors, FTTH and CATV.

An FTTx Test Solution

These products are part of EXFO's series of FTTx optical test products. They allow for the testing of passive optical networks (PONs) at the three main wavelengths (1310, 1490 and 1550 nm) used in fiber-to-the-home (FTTH) and fiber-to-the-premises (FTTP) networks and comply with the ITU-T G.983 and G.984 Recommendation series and the IEEE 802.3ah standard.

ORDERING INFORMATION

FBK-54	*FiberBasix 50 FTTH Test Kit*	**$2,065.00**

Kit Includes: Including: EPM-53X-RB-PMA-22 FiberBasix Power Meter with High-Power InGaAs detector and rubber boot - Universal 2,5mm slip grip interface - PMA-22 FC Connector adapter ELS-50-235BL-RB-LSA-89 FiberBasix Optical Source 1310/1490/1550 nm laser (9/125im)with rubber boot - LSA-89 FC Connector adapter Extra power meter adapters: - 1x PMA-54 SC connector adapter - 1x PMA-32 ST connector adapter Extra light source adapters: - 1x LSA-91 SC connector adapter - 1x LSA-90 ST connector adapter Carrying case GP-10-061, Six AA batteries, Two soft pouches - Quick Reference Card - Calibration & Compliance Certificates

FBK-52	*FiberBasix 50 Outside Plant Test Kit*	**$1,795.00**

Kit Includes: Including: EPM-53-RB-PMA-22 FiberBasix Power Meter with InGaAs detector and rubber boot - Universal 2,5mm slip grip interface - PMA-22 FC Connector adapter ELS-50-23BL-RB-LSA-89 FiberBasix Optical Source 1310/1550 nm laser (9/125im) with rubber boot - LSA-89 FC Connector adapter Extra power meter adapters: - 1x PMA-54 SC connector adapter - 1x PMA-32 ST connector adapter Extra light source adapters: - 1x LSA-91 SC connector adapter - 1x LSA-90 ST connector adapter Carrying case GP-10-061, Six AA batteries, Two soft pouches - Quick Reference Card - Calibration & Compliance Certificates

FBK-53	*FiberBasix 50 Contractor Test Kit*	**$2,385.00**

Kit Includes: Including: EPM-53-RB-PMA-22 FiberBasix Power Meter with InGaAs detector and rubber boot - Universal 2,5mm slip grip interface - PMA-22 FC Connector adapter ELS-50-12C-RB-LSA-89 FiberBasix Optical Source 850/1300 nm LED source (50/125 im) with rubber boot - LSA-89 FC Connector adapter ELS-50-23BL-RB-LSA-89 FiberBasix Optical Source 1310/1550 nm laser (9/125im) with rubber boot - LSA-89 FC Connector adapter Extra power meter adapters: - 1x PMA-54 SC connector adapter - 1x PMA-32 ST connector adapter Extra light source adapters: - 2x LSA-91 SC connector adapter - 2x LSA-90 ST connector adapter - Carrying case GP-10-061, Nine AA batteries, Three soft pouches - Quick Reference Cards - Calibration & Compliance Certificates

FBK-55	*FiberBasix 50 CATV Test Kit*	**$1,810.00**

Kit Includes: Including: EPM-53X-RB-PMA-22 FiberBasix Power Meter with High-Power InGaAs detector and rubber boot - Universal 2,5mm slip grip interface - PMA-22 FC Connector adapter ELS-50-23BL-RB-LSA-89 FiberBasix Optical Source 1310/1550 nm laser (9/125im) with rubber boot - LSA-89 FC Connector adapter Extra power meter adapters: - 1x PMA-54 SC connector adapter - 1x PMA-32 ST connector adapter Extra light source adapters: - 1x LSA-91 SC connector adapter - 1x LSA-90 ST connector adapter Carrying case GP-10-061, Six AA batteries, Two soft pouches - Quick Reference Card - Calibration & Compliance Certificates

EXFO ELS-100 LIGHT SOURCE

Multiwavelength Capability

EXFO's ELS-100 Light Source provides excellent stability and high measurement accuracy for up to three singlemode wavelengths or two multimode wavelengths. It is the perfect complement to the FiberBasix EPM-100 Power Meter when it comes to measuring attenuation on fiber-optic links.

SPECIFICATIONS

Wavelength (nm)	1310 ± 20 1550 ± 20
Emitter Type	LED
Connector Styles	EXFO Univ. Intrfc.

ORDERING INFORMATION

ELS-100-12D23BL	*850/1300nm LED (62.5/125µm), 1310/1550mm laser (9/125µm)*	**$2,100.00**

EXFO EPM-100 POWER METER

High Accuracy and Easy Referencing

The EPM-100 Power Meter provides highly accurate power measurements, as well as reference value setting capabilities. What's more, this convenient unit requires no offset nulling, and offers power autonomy of 300 hour, for reliable, long-lasting performance in the field.

SPECIFICATIONS

Power range (dBm)	10 to –60
Detector	Ge
Data Storage (Items)	N/A

EXFO
EXPERTISE REACHING OUT

ORDERING INFORMATION

EPM-102	*Power Meter (Ge detector)*	**$485.00**

EXFO FOT-930 POWER METER

Designed for network service providers, network installers and CATV operators, the FOT-930 MaxTester provides fully automated loss test results in 10 seconds for up to three wavelengths, as well as automatic ORL and fiber-length measurement. It combines a powerful light source, a power meter, a visual fault locator, a full-duplex digital talk set and a video fiber inspection probe, and it comes with a large, high-resolution color display and nine hours autonomy—all this and more in an ergonomic, eye-catching handheld package built for today's fiber-optic testing requirements.

This unit easily and efficiently provides complete, high-quality test documentation. Its data logging and management features help users quickly access and download test results to any PC through the RS-232 port for in-depth analysis and first-class report generation.

The FOT-930 MaxTester delivers fast, three-wavelength loss and ORL results based on user-configurable pass/fail thresholds, for error-free testing. It is the only unit of its kind designed for testing both multimode and single-mode fiber. What's more, it comes with a GeX detector, for high-power measurement up to +26 dBm.

SPECIFICATIONS

External Power Meter	FOT-932	FOT-932X	FOT-933
Detector type	Ge	Gex	InGaAs
Measurement range (dBm)	10 to -70	26 to -55	6 to -73
Wavelength (nm)	800 to 1650	800 to 1650	800 to 1650
Measurement-distance units	kilometers, meters, kilofeet, feet, miles		

Optimized for Testing Passive Optical Networks

This mode lets you configure your FOT-930 MaxTester to suit your FTTx wavelengths and test-unit locations, as well as choose your preferred data presentation options for on-screen display or report generation. Benefits include the display of test data according to FTTx terminology, as well as similar test-data presentation, regardless of the location of main and remote units.

ORDERING INFORMATION

FOT-932-XX	*Ge detector, Dual lambda 1310/1550 nm laser (9/125 µm)*	**$6,870.00**
FOT-932-12C-XX	*Ge detector, Four lambda* *- 1st FasTest Port: 1310/1550 nm laser (9/125 µm),* *- 2nd FasTest Port: 850/1300 nm LED (50/125 µm)*	**$9,545.00**
FOT-932-12D-XX	*Ge detector, Four lambda* *- 1st FasTest Port: 1310/1550 nm laser (9/125 µm),* *- 2nd FasTest Port: 850/1300 nm LED (62.5/125 µm)*	**$9,545.00**
FOT-932-4-XX	*Ge detector, Tri-lambda 1310/1550/1625 nm laser (9/125 µm)*	**$8,995.00**
FOT-932-5-XX	*Ge detector, Tri-lambda 1310/1490/1550 nm laser (9/125 µm)*	**$8,410.00**
FOT-932X-XX	*High-power Ge detector, Dual lambda 1310/1550 nm laser (9/125 µm)*	**$6,920.00**
FOT-932X-12C-XX	*High-power Ge detector, Four lambda* *- 1st FasTest Port: 1310/1550 nm laser (9/125 µm),* *- 2nd FasTest Port: 850/1300 nm LED (50/125 µm)*	**$9,595.00**
FOT-932X-12D-XX	*High-power Ge detector, Four lambda* *- 1st FasTest Port: 1310/1550 nm laser (9/125 µm),* *- 2nd FasTest Port: 850/1300 nm LED (62.5/125 µm)*	**$9,595.00**
FOT-932X-4-XX	*High-power Ge detector, Tri-lambda 1310/1550/1625 nm laser (9/125 µm)*	**$9,055.00**
FOT-932X-5-XX	*High-power Ge detector, Tri-lambda 1310/1490/1550 nm laser (9/125 µm)*	**$8,460.00**
FOT-933-XX	*InGaAs detector, Dual lambda 1310/1550 nm laser (9/125 µm)*	**$6,975.00**
FOT-933-4-XX	*InGaAs detector, Tri-lambda 1310/1550/1625 nm laser (9/125 µm)*	**$9,115.00**
FOT-933-5-XX	*InGaAs detector, Tri-lambda 1310/1490/1550 nm laser (9/125 µm)*	**$8,510.00**

Features

- FasTest and ORL function
- Fiber Inspection Probe connection
- 2 rechargeable batteries (GP-1001) & AC adapter/charger
- Soft carrying case (GP-10-061)
- USB to serial converter; USB to DB9 male (GP-2004)
- Calibration mandrel
- Instruction manual and Certificate of Compliance
- Test report
- Shoulder strap
- Connector adapter EUI-XX
- Connector adapter FOA-XX

Options

VFL	*650 nm Visual Fault Locator with universal 2.5 mm adapter*	**$475.00**
VFT	*650 nm Visual fault locator and talk set, 1550 nm Laser (9/125 µm) with headset (GP-1002). Option NOT possible if already 5 wavelengths present on FOT-930.*	**$2,965.00**
FP4S	*FIP-400-P-SINGLE: 400X Video Probe. Comes w/* *FIPT-400-FC-SC: FC-SC Bulkhead tip.* *FIPT-400-U25M: Univ. patchcord tip (2.5mm ferrule)* *Compartmented plastic case for tips.* *Software & Instruction manual on CD.*	**$1,225.00**
FP4D	*FIP-400-P-DUAL: 200X/400X Video Probe. Comes w/* *FIPT-400-FC-SC: FC-SC Bulkhead tip.* *FIPT-400-U25M: Univ. patchcord tip (2.5mm ferrule)* *Compartmented plastic case for tips.* *Software & Instruction manual on CD.*	**$1,595.00**

EXFO *POWER METERS & LIGHT SOURCES*

EXFO ELS-500 LIGHT SOURCE
Multiwavelength Testing Capability

The EXFO's ELS-500 Light Source provides excellent stability and high measurement accuracy with your choice of two wavelengths (850/1300 nm or 1310/1550 nm) on a single port, or four wavelengths (850/1300 nm and 1310/1550 nm) on two ports. With its automatic wavelength switching mode, it is the perfect complement to the EPM-500 Power Meter when it comes to quickly and easily measuring attenuation on fiber-optic links.

SPECIFICATIONS

Model	12D	23BL
Wavelength (nm)	850 ± 25 1300 +50/–10	1310 ± 20 1550 ± 20
Emitter Type	LED	Laser
Connector Styles	EXFO Universal Interface	

ORDERING INFORMATION

ELS-500-23BL	*1310/1550nm Laser, 9/125mm*	**$2,200.00**
ELS-500-12D23BL	*850/1300nm LED Fiber D, 1310/1550nm Laser*	**$2,850.00**

EXFO EPM-500 POWER METER
High Accuracy and Easy Referencing

The EPM-500 Power Meter provides highly accurate power measurements, as well as reference value setting capabilities. What's more, this convenient unit requires no offset nulling, for reliable, long-lasting performance in the field. When paired with an ELS-500 Light Source used in Auto-Switching mode, the power meter allows for semi-automated loss measurement, providing easy, error-free testing.

SPECIFICATIONS

Model	EPM-502
Power range (dBm)	10 to –70
Detector	Ge
Data Storage (Items)	Up to 1000

EXFO
EXPERTISE REACHING OUT

ORDERING INFORMATION

EPM-502-XX	*Power Meter (Ge Detector)*	**$1,150.00**

EXFO FLS-600 LIGHT SOURCE
Automatic Wavelength Switching

The FLS-600 Light Source are designed for first-class versatility. Choose among laser, LED models, as well as various wavelength options. What's more, you can save time by building a list of your "favorite" wavelengths and only sweeping through these wavelengths when testing.

SPECIFICATIONS

Model	12D	23BL
Wavelength (nm)	850 ± 25 1300 +50/–10	1310 ± 20 1550 ± 20
Output power (dBm)	≥–20/≥–20 (62.5/125 µm)	≥–20/≥–20 (62.5/125 µm)
Emitter Type	LED	Laser
Connector Styles	EXFO Universal Interface	

ORDERING INFORMATION

FLS-600-23BL	*1310/1550 nm laser source (9/125 µm)*	**$2,910.00**
FLS-600-12D23BL	*850/1300 nm LED source (62.5/125 µm)*	**$2,995.00**

EXFO FPM-600 POWER METER
FTTx Test Solution

The FPM-600 Power Meters are the ideal tool for link and system qualification. Thanks to its memory capacity of 1000 data items and converter software, it facilitates data management and enables data transfer to a PC via USB connection. The FPM-600 features a green/red LED indicator that gives you a pass or fail test verdict according to the thresholds you have defined.

SPECIFICATIONS

Model	FPM-602	FPM-602X
Power range (dBm)	10 to –70	26 to –55
Detector	Ge	GeX
Wavelength range (nm)	800 to 1650	
Data Storage (Items)	more than 1000	

EXFO
EXPERTISE REACHING OUT

ORDERING INFORMATION

FPM-602	*EXFO FPM-600 Power Meter (GE Detector)*	**$1,260.00**
FPM-602X-XX	*High-power Ge detector*	**$1,310.00**

NOYES MLP SERIES OPTICAL LOSS KITS

MLP1 Fiber Optic Loss Test Kits

Basic Multimode Test Kit

The MLP1 test kits are inexpensive solutions for testing multimode and single-mode systems. By joining the OPM1 optical power meter and the OLS1 optical light source, the MLP1 is a great kit for beginners or network owners. Two versions of the MLP1 test kit are available for testing Premises networks, LAN, and Gigabit Ethernet. The MLP1-1S test kit includes the OPM1-2C power meter and OLS1-1C light source. The MLP1-2 test kit combines the OPM1-2C optical power meter and OLS1-2C optical light source

Test Kit Model	MLP 1-1S		MLP 1-2	
Optical Light Source	***OLS 1-1C***		***OLS 1-2C***	
Wavelength (nm)	660 - red	850 + 35/-40	850 + 35/-40	1300 + 50/-10
Emitter type	Class 1 (IEC 60825 - 1)			
Connector	ST			
Optical Power Meter	***OPM 1-2C***			
Power Range	+6 to -60 dBm			
Detector	Ge			

ORDERING INFORMATION

MLP1-1S	*MLP1-1S Test Kit, ST connector*	**$799.00**
MLP1-2	*MLP1-2 Test Kit, ST connector*	**$995.00**

Test jumpers and connector adapters are required for operation (purchased separately).

MLP1 Kit includes: OLS1 optical light source, OPM1-2C optical power meter, protective rubber boots, adapter cap, 50 and 62.5µm mandrels, user's guide, and carrying case.

MLP4-2 Multimode Test Kit

Multimode Kit with Wave ID and Set Reference

The MLP4-2 test kit offers accurate fiber optic testing at an affordable price. Combining the OPM4-2D optical power meter and the OLS1-Dual LED light source in a rugged carry case, the MLP4-2 is a complete test kit for fiber optic LANs and WANs.

Test Kit Model	MLP 4-2	
Optical Light Source	***OLS 1-Dual (single port)***	
Wavelength (nm)	850 ±30	1300 +50/-10
Emitter type	Class 1 (IEC 60825 - 1)	
Connector	SC (FC & ST available)	
Optical Power Meter	***OPM 4-2D***	
Power Range	+6 to -50 dBm / +6 to -45 dBm for 850 nm	
Detector	Ge	

ORDERING INFORMATION

MLP4-2D	*MLP4-2 Test Kit (-**XX** = SC, FC, ST connector)*	**$1,195.00**

Test jumpers and connector adapters are required for operation (purchased separately).

MLP4-2 Kit includes: OLS1-Dual optical light source, OPM4-2D optical power meter, AA batteries, protective rubber boots, adapter cap, 50 and 62.5 µm mandrels, user's guide, and carry case

MLP5-2 Multimode Test Kit

Wave ID, Set Reference, and Data Storage

The MLP 5-2 test kit raises field testing to new standards by combining our popular OPM 5-2D optical power meter, and the OLS 1-Dual LED light source in a rugged carrying case. Used during installations, the MLP 5-2 performs insertion loss measurements on multimode fiber at 850 and 1300 nm, as well as measurements on single-mode fiber at 1300 nm.

Test Kit Model	MLP 5-2	
Optical Light Source	***OLS 1-Dual (single port)***	
Wavelength (nm)	850 ±30	1300 +50/-10
Emitter type	Class 1 (IEC 60825 - 1)	
Connector	SC (FC & ST available	
Optical Power Meter	***OPM 5-2D***	
Power Range	+6 to -60 dBm	
Detector	Ge	
Data Storage (Items)	Up to 500 per wavelength	

ORDERING INFORMATION

MLP5-2D	*MLP5-2 Test Kit (-**XX** = SC, FC, ST connector)*	**$1,595.00**

Test jumpers and connector adapters are required for operation (purchased separately).

MLP5-2 Kit includes: OLS1-Dual optical light source, OPM5-2D optical power meter, AA batteries, protective rubber boots, adapter cap, USB cable, Windows® compatible software and user's guide, 50 and 62.5 µm mandrels, user's guide, and carry case.

NOYES CONTRACTOR SERIES TEST KITS

CKM-2 Fiber Optic Loss Test Kits

Multimode Test Kit with Set Reference

Combining the CSM1-2 optical power meter and CSS1-MM Dual LED light source, the CMK-2 is a cost-effective test kit designed for performing insertion loss measurements on multimode fiber optic links.

Weighing only 0.4 lb each, both units are compact and convenient for field use. The CSS1-MM Dual LED light source, and CSM1-2 optical power meter are fully N.I.S.T. traceable.

- Palm-sized, rugged, lightweight
- Certify multimode fiber links per TIA/EIA standards
- CW and modulated Tone
- 270, 330, 1000, and 2000 Hz supported Tone
- Power measurements in dBm or µW; insertion loss in dB
- Reference power level storage
- Large LCD with Backlight
- Free 50 µm and 62.5 µm mandrels
- N.I.S.T traceable

Test Kit Model	CKM-2	
Optical Light Source	***CSS1-MM (single port)***	
Wavelength (nm)	850 nm ±20 nm	1300 nm +40/-60 nm
Emitter type	Class 1 (IEC 60825 - 1)	
Connector	SC	
Optical Power Meter	***CSM1-2***	
Power Range	+6 to -60 dBm	
Detector	Germanium (Ge)	
Data Storage (Items)	N/A	

Kit includes:

CSS1-MM dual optical light source, CSM1-2 optical power meter, AA batteries, 2.5 mm Universal adapter cap, 50 and 62.5 µm mandrels, user's guide, and carry case.

Test jumpers and connector adapters are required for operation (purchased separately).

ORDERING INFORMATION

CKM-2	*CKM-2 Test Kit*	**$799.00**

CKSM-2 Fiber Optic Loss Test Kits

Multimode & Single-mode Test Kit with Set Reference

Combining the CSM1-2 optical power meter, CSS1-MM Dual LED light source, and CSS1-SM Dual LASER source, the CKSM-2 is a cost-effective test kit designed for performing insertion loss measurements on multimode as well as single-mode fiber optic links.

- Palm-sized, rugged, lightweight
- Certify multimode fiber links per TIA/EIA standards
- CW and modulated Tone
- 270, 330, 1000, and 2000 Hz supported Tone
- Power measurements in dBm or µW; insertion loss in dB
- Reference power level storage
- Large LCD with Backlight
- Free 50 µm and 62.5 µm mandrels
- N.I.S.T traceable

Optical Light Source	***CSS1-MM (single port)***	
Wavelength (nm)	850 nm ±20 nm	1300 nm +40/-60 nm
Emitter type	Class 1 (IEC 60825 - 1)	
Connector	SC	
Optical Light Source	***CSS1-SM (single port)***	
Wavelength (nm)	1310 nm ±20 nm, 1550 nm ±20 nm	
Emitter type	Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
Connector	UCI base and FC, SC, ST, or LC adapter	
Optical Power Meter	***CSS1-2***	
Power Range	+6 to -60 dBm	
Detector type	Germanium (Ge)	
Data Storage (Items)	N/A	

Kit includes:

CSS1-MM Dual LED source, CSS1-SM Dual Laser source, CSM1-2 optical power meter, AA batteries, 2.5 mm universal adapter cap, UCI-SC connector, 50 and 62.5 µm mandrels, user's guide, and carry case.

Test jumpers and connector adapters are required for operation (purchased separately).

ORDERING INFORMATION

CKSM-2	*CKSM-2 Test Kit*	**$1,649.00**

NOYES SMLP SERIES OPTICAL LOSS KITS

SMLP4-4 Test Kit

Single-mode / Multimode Test Kit with Wave ID and Set Reference

The SMLP4-4 test kit combines the OPM4-2D optical power meter and OLS4 integrated LED and LASER light source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.

- Certify multimode and single-mode links per TIA/EIA standards
- Wave ID - automatic wavelength identifi - cation and switching
- Dual Wave ID, single Wave ID, CW, and modulated Tone
- 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone
- Large LCD with Backlight
- Power measurements in dBm or µW; insertion loss in dB
- Free 50 µm and 62.5 µm mandrels
- N.I.S.T traceable

Test Kit Model	SMLP4-4			
Optical Light Source	***OLS4***			
Optical	MM Optical Port		SM Optical Port	
Wavelength (nm)	850 ± 30	1300 -10/+50	1310 ± 20	1550 ± 20
Emitter type	LED, Class 1 (IEC 60825 - 1)		Laser, Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
Connector	SC (FC, ST, or LC available)		SC (FC, ST, or LC available)	
Optical Power Meter	***OPM4-2D***			
Power Range	+6 to -60 dBm			
Detector	Germanium (Ge)			
Data Storage (Items)	N/A			

Package includes:

OLS4 optical light source, OPM4-2D optical power meter, AA batteries, protective rubber boots, adapter cap, 50 and 62.5 µm mandrels, user's guide, and carry case.

Test jumpers and connector adapters are required for operation (purchased separately).

ORDERING INFORMATION

SMLP4-4-XX	*SM/MM Test Kit w/ Wave ID & Set Reference* (**-XX** = *ST, FC, SC Connector)*	**$2,595.00**

SMLP5-5 Test Kit

SMLP5-5 Single-Mode/Multimode Test Kit with Wave ID and Data Storage

SMLP5-5 Single-Mode/Multimode Test Kit with Wave ID, Set Reference and Data Storage The SMLP5-5 test kit combines the OPM5-2D optical power meter and OLS4 integrated LED and LASER light source and is ideally suited for testing fiber optic networks with hybrid (single-mode and multimode) cables.

- Certify multimode and single-mode links per TIA/EIA standards
- Wave ID - automatic wavelength identification and switching
- Dual Wave ID, single Wave ID, CW, and modulated Tone (on single-mode output)
- 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone
- Large LCD with Backlight
- Power measurements in dBm or µW; insertion loss in dB
- Up to 500 test records per wavelength storage and download
- USB port for download of stored records
- Free 50 µm and 62.5 µm mandrels
- N.I.S.T traceable

Test Kit Model	SMLP5-5			
Optical Light Source	***OLS4***			
Optical	MM Optical Port		SM Optical Port	
Wavelength (nm)	850 ± 30	1300 -10/+50	1310 ± 20	1550 ± 20
Emitter type	LED, Class 1 (IEC 60825 - 1)		Laser, Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)	
Connector	SC (FC, ST, or LC available)		SC (FC, ST, or LC available	
Optical Power Meter	***OPM5-2D***			
Power Range	+6 to -60 dBm			
Detector	Germanium (Ge)			
Data Storage (Items)	Up to 500 per wavelength			

Package includes:

OLS4 optical light source, OPM5-2D optical power meter, AA batteries, protective rubber boots, adapter cap, USB cable, Windows® compatible software and user's guide, 50 and 62.5 µm mandrels, SMLP5-5 test kit user's guide, and carry case

Test jumpers and connector adapters are required for operation (purchased separately).

ORDERING INFORMATION

SMLP5-5-XX	*SM/MM Test Kit w/ Wave ID & Data Storage* (**-XX** = *ST, FC, SC Connector)*	**$2,995.00**

JDSU *POWER METERS & LIGHT SOURCES*

JDSU OMK-5 / OMK-6 / OMK-7 TEST KIT

Pocket-sized Optical Test Kits

All JDSU OMK optical test kits include one power meter and one light source as standard. Each kit is packaged in its own field carrying case including cables and accessories.

OMK-5, OMK-6 and OMK-7 are handy, pocket-sized instruments optimized for absolute power and loss measurements.

Features:
- Verification, installation, maintenance and surveillance.
- Easy report generation
- Simple reliable operation
- Rugged, compact and lightweight

SPECIFICATIONS

	OMK-5	OMK-6	OMK-7
LIGHT SOURCE	**OLS-5**	**OLS-6**	**OLS-6**
Wavelength (nm)	850, 1300	1310, 1550	1310, 1550
Emitter Type	LED	Laser	Laser
Connector Style	SC	FC/PC or SC/PC	SC/PC
METERS	**OLP-5**	**OLP-6**	**OLP-8**
Power Range	-60 to + 5dBm	-65 to + 10dBm	-50 to + 23dBm
Wavelength (nm)	820, 850, 1300, 1550	850, 1300, 1310, 1490, 1550	980, 1310, 1480, 1550
Data Storage (Items)	N/A	N/A	N/A

ORDERING INFORMATION

2126/05	*OMK-5 Basic Optical Test Kit - Datacom*	**$1,340.00**
2126/06 (FCPC)	*OMK-6 Basic Optical Test Kit Telecom, FTTx (termination only) - FC/PC*	**$1,700.00**
2126/62 (SCPC)	*OMK-6 Basic Optical Test Kit Telecom, FTTx (termination only) - SC/PC*	**$1,700.00**
2126/07 (FCPC)	*OMK-7 Basic Optical Test Kit Multimedia / CATV - FC/PC*	**$2,750.00**
2126/75 (SCPC)	*OMK-7 Basic Optical Test Kit Multimedia / CATV - SC/PC*	**$1,950.00**

JDSU OLS-5 / OLS-6 LIGHT SOURCE

Pocket-sized Dual Wavelength

- OLS-5 is for multimode at 850 and 1300 nm
- OLS-6 is for single mode at
  - 1310 and 1550 nm or at
  - 1550 and 1625 nm or at
  - 1490 and 1550 nm
- FTTx ready

SPECIFICATIONS

MULTIMODE SOURCE	2255/01
Wavelength (nm)	850, 1300
Emitter Type	LED
Connector Style	ST
SINGLEMODE SOURCE	**2255/02**
Wavelength (nm)	1310, 1550
Emitter Type	Laser
Connector Style	FC
MULTIMODE SOURCE	**2255/45**
Wavelenght (nm)	1310, 1550
Emitter Type	Laser
Connector Style	SC

Quick charger for NiMH or NiCd cells (accessory)

ORDERING INFORMATION

2255/01	*OLS-5 - Datacom*	**$850.00**
2255/02	*OLS-6 - (1310/1550nm) FC/PC*	**$1,495.00**
2255/45	*OLS-6 - (1310/1550nm) SC/PC*	**$1,495.00**

JDSU OLP-5, OLP-6, OLP-8

Pocket-sized Optical Power Meters

The JDSU OLP product line of pocket–sized optical power meters provides an excellent price/performance ratio for universal, singlemode loss test and systems power measurements.

- Rugged, compact and lightweight
- Reliable basic functionality
- Singlemode & multi-mode applications
- Universal push pull interface (2.5/1.25 mm)
- Standard AA batteries or NiMH/NiCd cells

SPECIFICATIONS

METER	OLP-5
Measurement Range	-60 to + 5dBm
Wavelength (nm)	820, 850, 1300, 1550
METER	**OLP-6**
Measurement Range	-65 to + 10dBm
Wavelength (nm)	850, 1300, 1310, 1490, 1550
METER	**OLP-8**
Measurement Range	-50 to + 23dBm
Wavelenght (nm)	980, 1310, 1480, 1550

ORDERING INFORMATION

2256/01	*OLP-5 Pocket Optical Power Meter - Datacom*	**$350.00**
2256/02	*OLP-6 Pocket Optical Power Meter - Telecom, FTTx*	**$415.00**
2256/03	*OLP-8 Pocket Optical Power Meter - Hi Power*	**$690.00**

OVF-1 Visual Fault Locator (accessory)

ACCESSORIES AND SUPPLIES

2229/90.21	*OCK-10 Cleaning kit*	**$189.00**	**2252/01**	*OVF-1 Visual Fault Locator*	**$240.00**
2229/90.07	*Optical connector cleaning tape*	**$165.00**	**2237/90.02**	*NiMh Battery Cells*	**$4.00**

JDSU Optical Channel Checker

The JDSU OCC series is a handheld, battery operated Channel Checker that is ideal for field service groups tasked with the installation, maintenance, and upgrades of systems. The Channel Checker scans the system and automatically records all channels with the wavelength and the related power level. The information can be displayed in a graphical spectrum format, or in a table of results so that users can easily check the performance of each and every channel.

OCC-55 CWDM

Optical Channel Checker

- Industry's smallest and lightest CWDM channel checker
- Wavelength scan range: 1260 nm to 1620 nm
- Outstanding battery lifetime ensures highest flexability
- Graphical/tabular display mode
- Results can be saved via internal memory
- Report generation software OFS-355

OCC-55 SPECIFICATIONS

	OCC-55
Wavelength range	1260 nm to 1620 nm
Minimum channel spectral resolution	2 nm (@ 3 dB)
Absolute wavelength accuracy	± 0.2 nm
Relative wavelength accuracy	± 0.1 nm
Power level range/channel	+10 dBm to -50 dBm
Maximum composite power	+22 dBm
Dynamic range	50 dB
Channel power repeatability	± 0.4 dB
Channel power accuracy	± 0.8 dB
PDL	± 0.3 dB
Measurement time	1 min
Optical interface	Universal PC (FC/SC/DIN...)
Return loss	>35 dB
Graphical display Trace	Bar graph
Table	ch-no, wavelength, power
Functions	marker, wavelength, drift
Sweep mode	Single, continuous
Remote control	via USB interface

ORDERING INFORMATION

2277/40	*OCC-55 CWDM*	**$5,770.00**
2277/41	*OCC-56C DWDM*	**$6,715.00**

OCC-56C DWDM

Optical Channel Checker

- Industry's smallest and lightest DWDM channel checker
- Supports C-band or L-band applications
- Outstanding battery lifetime ensures highest flexibility
- Graphical/tabular display mode
- Supports 50 GHz, 100 GHz, or 200 GHz channel spacing (according to ITU-T)
- Results can be saved via internal memory or external USB memory stick
- Report generation software OFS-355

OCC-56C SPECIFICATIONS

	OCC-56
Wavelength range	1528 nm to 1564 nm
Wavelength accuracy	typ. ± 3.3 GHz
Channel spacing	50 GHz / 100 GHz / 200 GHz
Channel power range	<-70 to +10 dBm
Absolute accuracy	< ± 1 dB
Readout resolution	± 0.1 dB
Filter selectivityOptical bandwidth 3 dB	35 GHz (0.28 nm) typ.
Measurement time	~ 120 s (full span sweep) typ.
Optical interface	Universal PC (FC/SC/DIN...)
Max. composite power	+22 dBm
Return loss	>35 dB
Graphical display Trace	Bar graph, 50 GHz/pixel
Table	ch-no, wavelength, power
Functions	Zoom, marker
Sweep mode	Single, continuous
Remote control	via USB interface

JDSU TLS-55 SMART Optical Tunable Laser Source

The TLS-55 Smart Optical tunable laser source is designed to support ROADM network channel routing applications. These handheld light sources are setting new benchmarks when it comes to size, weight and power. The tester also provides wavelength tuning in C-band or L-band on a footprint of only 195 x 95 mm at a weight of 500 g is unique in today's market.

SPECIFICATIONS

	TLS-55C	TLS-55L
Wavelength range	1528.38 nm (191.70 THz) to 1563.86 nm (196.15 THz)	1570.42 nm (186.35 THz) to 1608.76 nm (190.90 THz)
Output power range	+9 dBm to +6 dBm, adjustable	+9 dBm to +6 dBm, adjustable
Frequency accuracy	± 2.5 GHz	± 2.5 GHz

ORDERING INFORMATION

BN 2279/41	*TLS-55C C-band*
BN 2279/91.15	*1510 nm laser option (only with TLS-55C)*
BN 2279/42	*TLS-55L L-band*

Features:

- Industry's first battery-operated tunable laser source for field applications.
- Supports ROADM network channel routing applications.
- Battery-operation ensures highest flexibility even for field applications.
- C-band or L-band version.
- Extra 1510 nm wavelength for OSC testing (only with TLS-55C).
- Supports 50 GHz, 100 GHz, or 200 GHz channel spacing(according to ITU-T).

Call for pricing

PRO Precision Rated Optics

Pro Test Kits

- Test Cables and SC,
- Semi-Rigid carrying case
- Universal adapters
- SM and MM testing

Our optical test kits provide much of the basic gear required for first-line optical fiber cabling installation and verification.

These affordable kits come in varying configurations containing

Light Sources

102D
103D
202D
203D
201T
202T
201Q
202X

Power Meters

102A
102B
202A
202B
204A
204B

All kits include

VFL-A1
400x Microscope

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PRO OPTICAL LOSS KITS

Precision Rated Optics has developed optical test kits designed for specific markets within the communications industry.. With new advanced capabilities that make testing simple, PRO Test Kits are the best "go-to" kits for anyone involved in first-line optical fiber cabling installation and verification. Whether you are a fiber technician or contractor, our expertly configured kits contain all the tools necessary to quickly measure loss, power levels and inspect and clean connector end-faces. Features including both SM and MM testing capabilities along with Test Cables and SC, ST, FC and universal adapters in a semi-rigid carrying case make PRO the best fiber test kit on the market.

PRO-100 ORDERING INFO

PK-12D12A *PRO 100 Series Test Kit (SM)* **$2,190.10**

Includes: (1) FC-ST Simplex SM UPC Patchcord 1 Meter, (1) FC-LC UPC Singlemode Simplex 1 Meter, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Light Source LS-102D (SM) 1310 & 1550, (1) Power Meter PM-102A, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) Mating Sleeve SC SM, Flanged Simplex Zr

PK-12D12B *PRO 100 Series Test Kit (CATV)* **$2,332.19**

Includes: (1) FC-ST SIMPLEX MM62.5 1 MTR, (1) FC-LC SIMPLEX MM 62.5um 1 MTR, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Light Source LS-102D (SM) 1310 & 1550, (1) Power Meter PM-102B (CATV), (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) Mating Sleeve SC MM, Flanged Simplex,Pb, (1) FC-ST SIMPLEX MM62.5 1 MTR, (1) FC-LC SIMPLEX MM 62.5um 1 MTR, (1) Mating Sleeve SC SM, Flanged Simplex Zr

PK-13D12A *PRO 100 Series Test Kit (MM)* **$1,743.21**

Includes: (1) FC-ST SIMPLEX MM62.5 1 MTR, (1) FC-LC SIMPLEX MM 62.5um 1 MTR, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Light Source LS-103D (MM) 850 & 1300, (1) Power Meter PM-102A, (1) Fiber Microscope with 200X magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mating Sleeve SC MM, Flanged Simplex,Pb, (1) Mandrel, 62.5um fiber, 3mm Jacket

PK-12D13D12A *PRO 100 Series Test Kit (Quad) VFL-1A* **$2,951.99**

Inlcudes: (1) FC-ST Simplex SM UPC Patchcord 1 Meter, (1) FC-LC UPC Singlemode Simplex 1 Meter, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-102A, (1) Light Source LS-102D (SM) 1310 & 1550, (1) Light Source LS-103D (MM) 850 & 1300, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) Fiber patch cord FC-SC Duplex 1 MTR, (1) Fiber Patch cord MM 62.5 FC-SC 1MTR, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC MM, Flanged Simplex,Pb, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mandrel, 62.5um fiber, 3mm Jacket

PRO-150 ORDERING INFO

PK-12D24A *PRO 150 Series Test Kit (SM)* **$2,653.95**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-102D (SM) 1310 & 1550, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) Mating Sleeve SC SM, Flanged Simplex Zr.

PK-13D24A *PRO 150 Series Test Kit (MM)* **$2,273.21**

Includes: (1) FC-LC SIMPLEX MM 62.5um 1 MTR, (1) FC-ST SIMPLEX MM62.5 1 MTR, (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-103D (MM) 850 & 1300, (1) Fiber Microscope with 200X magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mating Sleeve SC MM, Flanged Simplex,Pb, (1) Mandrel, 62.5um fiber, 3mm Jacket.

PK-12D13D24A *PRO 150 Series Test Kit (QUAD)* **$3,482.29**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-102D (SM) 1310 & 1550, (1) Light Source LS-103D (MM) 850 & 1300, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC MM, Flanged Simplex,Pb, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mandrel, 62.5um fiber, 3mm Jacket.

PK-12D13D24AL *PRO 150 Series Test Kit (QUAD) - Lite* **$3,153.44**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-102D (SM) 1310 & 1550, (1) Light Source LS-103D (MM) 850 & 1300, (1) FC-LC UPC Singlemode Simplex 1 Meter, (1) FC-ST Simplex SM UPC Patchcord 1 Meter, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC MM, Flanged Simplex,Pb, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mandrel, 62.5um fiber, 3mm Jacket.

Features

- Three unit Semi-Rigid Carry Case
- Power Meter (Six Wavelength)
- Light Scource (FC Connector)
- 400x fiber inspection scope
- Cleanung supplies

PRO-200 ORDERING INFO

PK-22D24A *PRO 200 Series Test Kit (SM)* **$3,494.65**

Includes: (1) FC-LC UPC Singlemode Simplex 1 Meter, (1) FC-ST Simplex SM UPC Patchcord 1 Meter, (1) Semi-rigid case 200 Series Test, (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-202D (SM) 1310 & 1550, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) Mating Sleeve SC SM, Flanged Simplex Zr.

PK-23D24A *PRO 200 Series Test Kit (MM)* **$3,142.34**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-203D (MM) 850 & 1300, (1) Fiber Microscope with 200X magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC MM, Flanged Simplex,Pb, (1) Mandrel, 62.5um fiber, 3mm Jacket.

PK-22S22D24A *PRO 200 Series Kit - OVA, LS, PM* **$6,510.00**

Includes: (1) Semi-rigid Case: Holds 3 HH, Scope, acc., (1) PRO SM (1310/1550) Digital Variable Att., (1) Light Source LS-202D (SM) 1310 & 1550, (1) Power Meter PM-204A (w/ data storage)

PK-22D23D24A *PRO 200 Series Test Kit (QUAD)* **$5,217.24**

Includes: (1) Semi-rigid case 200 Series Test, (1) Power Meter PM-204A (w/ data storage), (1) Light Source LS-202D (SM) 1310 & 1550, (1) Light Source LS-203D (MM) 850 & 1300, (1) Fiber Microscope with 400x magnification, (1) IBC Cleaner (2.5mm) Cleaning Tool, (1) Fiber Optic Cleaning Cassette, (1) FC-SC Simplex SM UPC Patchcord 1 Meter, (1) SC-SC Simplex SM UPC Patchcord 1 Meter, (1) FC-SC UPC MM Simplex 2 meter, (1) SC-SC Simplex MM UPC Patchcord 2 Meters, (1) Mating Sleeve SC SM, Flanged Simplex Zr, (1) Mating Sleeve SC MM, Flanged Simplex,Pb, (1) Mandrel, 62.5um fiber, 3mm Jacket

PRO PM-102A / PM-102B (CATV)

Power Meter

The PM 100 series of Power Meters are designed for use with an Optical Source for performing optical loss measurements on fiber optic cables. PM1 series are designed for the low budget. It can meet the basic demand in real testing. With the smaller size and weight, it is easier to take in real testing.

SPECIFICATIONS

	PM- 102A	PM- 102B
Wavelength (nm)	850/1300/1310/1490/1550/1625	
Connector	FC/PC, SC/PC, ST/PC, Universal	
Detector Type	InGaAs	
Accuracy	+ 0.35 dB + 10nW	
Resolution	0.01dB	
Linearity	+ 5%	
Measuring Range (dBm)	-60 to +3	-40 to +23
Operating Temperature	-10 to +50	
Storage Temperature	-20 to+70	
Power Supply	Li-ion Battery ; 5V AC/DC Adapter	

Standard Accessories:

- Carrying Bag
- User Manual
- Worldwide compatible AC/DC power adapter
- Test report
- Adapters: FC/PC, SC/PC, ST/PC
- Built-in 2.5mm Universal Adapter
- Li-ion Battery

Optional Accessories:

- E2000 Adapter
- LC Adapter, external FC to LC adapter
- 2.5mm Universal Adapter
- 1.25mm Universal Adapter
- SRC-1 Semi-Rigid 100 Series Case

ORDERING INFORMATION

PM-102A	*Power Meter PM-102A*	**$340.00**
PM-102B	*Power Meter PM-102B (CATV)*	**$445.00**

PRO PM-202A/PM-202B | PM-204A / PM-204B (CATV)

Power Meter

The PM200 series of Power Meters are functional and refined. These exceptional units have been designed to function in laboratories, LANs, WANs and CATV as well as long distance optical networks. The PM200 series together with our Stabilized Laser Sources, can be used to identify optical fiber, measure optical attenuation, verify continuity and evaluate fiber link transmission quality.

Computer supported:

Memory capacity of 1000 data items; enables data transfer to a PC via USB connection. With the software, the date sheet can be saved as excel or plain text.

Referencing functions:

Signal encrypting can also give the receiving end information on the power to be used as reference, helping ensure efficient referencing, even when the two units are far apart.

Auto-Wavelength Recognition:

The LS-202D and LS-203D units can transmit with a wavelength identification digital encrypted protocol, enabling the PM2 Power Meter to automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

SPECIFICATIONS

	PM-202A	PM-204A	PM-202B	PM-204B
Calibrated Wavelength	850/1300/1310 /1490/1550/1625 (nm)			
Detector Type	InGaAs			
Accuracy	± 5% ± 1nW		± 5% ± 10nW	
Resolution	0.01dB@-60 to +10dBm; 0.1dB@-70 to -60dBm		0.01dB@-40 to +26dBm; 0.1dB@-50 to -40dBm	
Linearity	± 5%			
Measuring Range	-70 to +10 (dBm)		-50 to +26 (dBm)	
Tone Detection (Hz)	270,1K,2K			
Operating Temperature	-10 ^{O}C to +50 ^{O}C			
Storage Temperature	-20 ^{O}C to +70 ^{O}C			
Power Supply	2pcs * Ni-MH AA(2500mAh); 6V AC/DC adapter			
Dimension (mm)	160L x 76W x 45H			
Net Weight	270g+			

Standard Accessories:

FC/PC,SC/PC,ST/PC interchangeable connector, Batteries, Built-in 2.5mm Universal Adapter, manual, Carrying Bag, Software (CD), USB cable, Worldwide compatible AC/DC power adapter, and test report.

Optional Accessories:

E2000 Adapter, External LC Adapter, 1.25mm Universal Adapter, SRC-1 Semi-Rigid 100 Series Case

ORDERING INFORMATION

PM-202A	Power Meter PM-202A	**$550.00**
PM-202B	Power Meter PM-202B	**$610.00**
PM-204A	Power Meter PM-204A (w/ data storage)	**$610.00**
PM-204B	Power Meter PM-204B (CATV) - (w/ data storage)	**$650.00**

OPTIONAL ACCESSORIES:

PMA-MU	MU Adapter	PMA-LC	LC Adapter
PMA-E2000	E2000 Adapter	PMA-U125	1.25mm Universal Adapter

PRO LS-102D / LS-103D

Light Source

The LS series offer excellent stability and portability for accurate fiber optic testing. The single output port provides stable laser power at dual wavelengths. The compact unit operates in either continuous wave (CW) mode or modulated mode. A low battery indicator reminds the user of replacing the battery. It can meet the basic demand in real testing. With the smaller size and weight, it is easier to take in real testing

SPECIFICATIONS

	LS-102D	LS-103D
Output wavelength (nm)	1310 & 1550	850 & 1300
Emitter Type	LD	
Connector	FC/PC	
Output stability	Short Term (15 minutes): <0.1dB Long Term (5 Hours or above): <0.2dB	
Central Wavelength	1310 ± 20nm & 1550 ± 20nm	850 ± 10nm & 1300 ± 20nm
Spectral Width	5 nm	
Output Frequency (Hz)	270, 1K, 2K	
Output Power	- 5 dBm	
Operating Temperature	-10 °C to +50 °C	
Storage Temperature	-20 °C to+70 °C	
Power supply	Li-ion Battery ; 5V AC/DC Adapter	
Dimension (mm)	115L x 65W x 30H	
Weight	140 g	

Standard Accessories:

- FC/PC connector (SC/PC, ST/PC, FC/APC, SC/APC Optional)
- Carrying Bag
- User Manual
- AC/DC power adaptor
- Test report

Optional adapters:

FC/PC male -SC/APC female Adapter, FC/PC male -FC/APC female Adapter, FC/PC male -MU/PC female Adapter, FC/PC male -ST/APC female Adapter, FC/PC male -LC/PC female Adapter, Others connector adaptors

ORDERING INFORMATION

LS-102D	*LS-102D (SM) Light Source 1310 & 1550*	**$995.00**
LS-103D	LS-103D (MM) Light Source 850 & 1300	**$745.00**

PRO LS-202D / LS-203D

Light Source

The LS series offer excellent stability and portability for accurate fiber optic testing. Single output port provides stable laser power at dual wavelengths. The compact unit operates in either continuous wave (CW) mode or modulated mode. The output power is adjustable through up & down keystroke. A low battery indicator reminds the user of recharging the battery.

Auto-Wavelength Recognition:

LS2 units can transmit with a wavelength-identification digital encrypted protocol, enabling the PM2 Power Meter to automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

SPECIFICATIONS

	LS-202D	LS-203D
Output wavelength	1310 & 1550 nm	850 & 1300 nm
Emitter Type	LD	
Connector	FC/PC, SC/PC, ST/PC interchangeable connectors (APC is available at the time of ordering)	
Output stability	Short Term (15 min.): < ±0.05dB @ 1310,1550nm Long Term (8 Hours): < ±0.1dB @ 1310,1550nm	Short Term (15 min.): < ±0.1dB @ 850, 1300nm Long Term (8 Hours): < ±0.2dB @ 850, 1300nm
Central Wavelength	1310±20 & 1550±20 nm	850±10 & 1300±20 nm
Spectral Width	5 nm	
Output Frequency (Hz)	270, 1000, 2000	
Output Power	-5 dBm	
Adjustable Range	±3dB, 0.1dB/step	
Operating Temperature	-10°C to 50°C	
Storage Temperature	-20°C to 70°C	
Power supply	2pcs * Ni-MH AA(2500mAh)	
Dimension (mm)	160L * 76W * 45H	
Weight	270g	

Features:

- Easy-to-use, straight forward operation
- Eye-catching handheld package
- LCD backlight for easy operation in darker environments
- ±3dB Adjustable by the user
- Rechargeable battery inside
- 850nm & 1300nm available for multimode testing
- Three-year warranty and recommended calibration interval

Standard Accessories:

FC/PC, SC/PC, ST/PC interchangeable connector, Carrying Bag, User Manual, Worldwide compatible AC/DC power adaptor, Battery, Test report

Optional Accessories:

FC/APC Connector, SC/APC Connector, Aluminium Carrying Case

ORDERING INFORMATION

LS-202D	*LS-202D Laser Source (SM) 1310/1550*	**$1,395.00**
LS-203D	LS-203D Laser Source (MM) 850/1300	**$1,195.00**

PRO 200 Series Light Sources

The LS200 series offer excellent stability and portability for accurate fiber optic testing. Single output port provides stable laser power at dual wavelengths. The compact unit operates in either continuous wave (CW) mode or modulated mode. The output power is adjustable through up & down keystroke. A low battery indicator reminds the user of recharging the battery

Auto-Wavelength Recognition

LS200 units can transmit with a wavelength-identification digital encrypted protocol, enabling the PM204 Power Meters to automatically use the proper calibration parameters. This feature reduces the need for communication between the two technicians and decreases the potential for error.

Features:

- Easy-to-use, straight forward operation
- Eye-catching handheld package
- LCD backlight for easy operation in darker environments
- Rechargeable batteries included
- Three-year warranty and recommended calibration interval

Standard Accessories:

- FC/PC, SC/PC, ST/PC interchangeable connector
- Carrying Bag
- User Manual
- Worldwide compatible AC/DC power adaptor
- Battery
- Test report

Optional Accessories:

- FC/APC Connector
- SC/APC Connector

LS-201T / LS-202T Light Source

The LS-200T series has been specifically designed for FTTx testing applicatons where the 1490nm wavelength is utilized.

Features:

- ±3dB Adjustable by the user

ORDERING INFORMATION

LS-201Q	*LS-201Q Light Source (850/1300/1310/1550)*	**$1,895.00**
LS-202X	*LS-202X Light Source (1310/1490/1550/1625)*	**$1,995.00**
LS-201T	*LS-201T Light Source (1310/ 1490/ 1550)*	**$1,895.00**
LS-202T	*LS-202T Light Source (1310/ 1550/ 1625)*	**$1,895.00**

SPECIFICATIONS

	LS-201Q	LS-202X	LS-201T	LS-202T
Output wavelength (nm)	850/1300/1310/1550	1310/1490/1550/1625	1310/ 1490/ 1550	1310/ 1550/ 1625
Emitter Type	LD			
Connector	FC/PC, SC/PC, ST/PC interchangeable connectors (APC is available at the time of ordering)			
Output stability	Short Term (15 min.): < ±0.05dB @ 1310,1550nm and ±0.1dB@850 & 1300 Long Term (8 Hours): < ±0.1dB @ 1310,1550nm and ±0.2dB@850 & 1300		Short Term (15 min.): < ±0.05dB @ 1310,1550nm; ±0.1dB @ 1625nm Long Term (8 Hours): < ±0.1dB @ 1310,1550nm; ±0.2dB @ 1625nm	
Central Wavelength	± 20nm		1310±20 & 1490±20 & 1550±20	
Spectral Width	5 nm	5 nm	5 nm	
Output Frequency (Hz)	270, 1000, 2000			
Output Power	-5 dBm			
Operating Temperature	-10°C to 50°C			
Storage Temperature	-20°C to 70°C			
Power supply	2pcs * Ni-MH AA(2500mAh)			
Dimension (mm)	160L * 76W * 45H			
Weight	270g			

PRO OLM-202A / 202B

Optical Loss Multimeter

The OLM series Multimeter combines a power meter with a 3- wavelength laser source, for optical fiber network installation and maintenance. The units large data storage capacity makes it very convenient for transferring field test data to a PC through a USB connection interface.

Standard Accessories:
User Manual, Rechargeable Batteries, Carrying Soft Bag, Interchangeable FC/SC/ST connectors, worldwide compatible AC /DC Power Adaptor, PC software, USB Connecting Cable

Optional Accessories:
LC/E2000 connectors for power meter port, Aluminium Carrying Box, various connector adaptors

Features:
- Auto wavelength recognition
- Data storage up to 999 items
- USB interface and PC associated software available

ORDERING INFORMATION

OLM-202A	*OLM-202A Optical Loss Multimeter*	**$2,975.00**
OLM-202B	OLM-202B Optical Loss Multimeter	**$2,795.00**

SPECIFICATIONS

		OLM-202A	OLM-202B
Power Meter	***Calibration wavelength***	850/1300/1310/1490/1550/1625 (nm)	
	Connector	Interchangeable FC/SC/ST for PC/APC	
	Data storage(items)	999	
	Ref. Value	Yes	
	Display Units	dB / dBm / mW /uW	
	Display precision(dB)	0.01	
	Accuracy	± 5% ± 1nW	
	Wavelength Recognition	1310/1490/1550(input power> -40dBm)	
	Tone Detection	270 Hz / 1KHz / 2KHz(input power> -40dBm)	
	Measuring Range(dBm)	-70 to +10	-50 to +26
Laser Source	***Output wavelength***	1310/1490/1550 (nm)	
	Connector	Interchangeable FC/SC/ST for PC	
	Modulation frequencies	270/1K/2K Hz	
	Output Power	-5dBm ± 0.5dB	
	Stability Long-term(8h)	± 0.1dB@1310/1550nm; ± 0.2dB@1490nm	
	Stability Short-term (15min)	± 0.05dB@1310/1550nm ; ± 0.1dB@1490nm	
	Wavelength Recognizing Code	Yes	
General Specification	***Auto Power off***	Yes	
	Power Supply	2pcs *NiHM 1.2V, 2000mAh; AC/DC Adapter	
	PC interface	USB	
	Battery Life	> 100 Hours (laser off)	
	Storage Temperature	-20 ^{O}C~+70 ^{O}C	
	Operating Temperature	-10 ^{O}C~+50 ^{O}C	
	Relative Humidity	<90% (Non-condensing)	
	Dimension (mm)	168L x 76W x 43H	
	Weight (Gram)	310	

PRO PON-301

PON Meter

Precision Rated Optic's advanced PON-specific power meter, the PON-301, is the flagship of PRO's test instruments specifically intended for FTTH and FTTP systems. The PON-301 is the ideal tool for FTTH/FTTP service activation and field application troubleshooting.

SPECIFICATIONS

	FC/PC	SC/PC	ST/PC
Measurement Range	1310nm(Burst Mode)	1490nm	1550nm
	-25dBm~+5.5dBm	-30dBm~+15dBm	-40dBm~+20dBm
Spectral Passband	131 0nm	1490nm	1550nm
	1260nm~1360nm	1480nm~1550nm	1539nm~1565nm
Insertion Loss	1.5dB		
Accuracy	±0.5dB		
Linearity	±0.2dB		
Display	2.8 inch TFT LCD		
Refresh Rate of Display	2.5Hz		
Threshold	10 sets(configured via PC-based software)		
Number of Ports	2(1 for ONU,1 for OLT&.Video)		
Operating Temperature	14 to 122°F (-10 to +50°C)		
Relative Humidity	0%~95%,non-condensing		
Power Supply	1.2V*4pcs Ni-MH AA;12V AC/DC Adapter		
Battery life	>20 hours		
Dimension	7.5 x 4.1 x 2.2 in (190 x 105 x 55 mm)		
Net Weight	1.5 lbs (700g)		

Features:
- Pass-through connection for ONT signal measurement
- Simultaneous measurement of all PON signals
- Filtered detectors for individual measurements of each wavelength
- Upstream burst detection at 1310 nm

Standard Accessories:
FC/PC,SC/PC,ST/PC interchangeable connector, manual, travel bag, software (CD), USB cable, AC/DC adapter, and test report.

ORDERING INFORMATION

PON-301	*PRO PON - 301*	**$1,495.00**

OPTIONAL ACCESSORIES:

PMA-LC	*LC Adaptor*	**PMA-U25**	*2.5mm Universal Adaptor*
PMA-E2000	*E2000 Adaptor*	**PMA-U125**	*1.25mm Universal Adaptor*

PRO OVA-201S / 202S

Optical Attenuator

The OVA2 digital variable optical attenuator is a compact, portable instrument widely used in fiber link certification and routine maintenance as well as in lab environment.

SPECIFICATIONS

	OVA-201S	OVA-202S
Attenuation Range	0~80dB	0~60dB
Fiber Type	SMF 9/125μm	
Calibrated Wavelengths	1310nm/1550nm	
Linearity	≤0.3dB	
Accuracy	0.2dB @3~30dB 1,0dB @ 30~60dB 2.0dB@60~80 dB	0.2dB @3~20dB 0.5dB @ 20~50dB 1.0dB@50~60 dB
Insert ion Loss	<3dB	
Return Loss	>50dB(PC)	
Max Input Power	24dBm	
Power Supply	1.2 V Ni-MH Battery * 2pcs	
Connector	Interchangeable FC/PC, SC/PC, ST/PC connectors. (FC/APC, SC/APC are available at time of ordering)	
Operating temperature	-10˚C to 50˚C	
Storage temperature	-20˚C to 60˚C	
Relative humidity	0%~95% (non-condensing)	
Dimension	160L*76W*45H(nm)	
Weight	360g(Battery included)	

Application:
- Maintenance of Telecom Systems
- Maintenance of CATV Systems
- Fiber Optic Transmission System & Test Lab
- Various other Trouble Shooting Applications

Standard Accessories:
FC/PC,SC/PC,ST/PC interchangeable connectors, Carrying Case, User Manual, Rechargeable Battery, Worldwide Compatible AC/DC Adaptor/Charger

Optional Accessories:
Various connector adaptors

ORDERING INFORMATION

OVA-201S	*Optical Attenuator*	**$3,795.00**
OVA-202S	*Optical Attenuator*	**$3,395.00**

JDSU SmartClass ADSL

ADSL Service Installation Tester

The JDSU SmartClass ADSL is the perfect tool for the field engineer installing and maintaining ADSL services. The simple user interface, including graphical display and telephone style keypad, allows field engineers to quickly configure and verify performance of ADSL service. The ADSL layer measurements allow the field engineer to verify key parameters that will ensure the long term reliability of the customer's circuit. The built in data layer functionality allows the field engineer to verify that the end customers can achieve full authentication and access internet IP addresses. The built-in 10M Ethernet ensures that the service can be tested, not only at the DSLAM, MDF, cross-box, or NID (customer premise), but also at the customers PC interface.

ORDERING INFORMATION

SC-DSLA	*SmartClass Silver ADSL2+ Annex A Package*	**$1,795.00**
SC-DSLB	*SmartClass Silver ADSL2+ Annex B Package*	**$1,795.00**
SC-DSLA-CU	*SmartClass Gold ADSL2+ Annex A & Cu Package*	**$2,195.00**
SC-DSLB-CU	*SmartClass Gold ADSL2+ Annex B & Cu Package*	**$2,195.00**

JDSU Test-Um Product Line

JDSU Network and Enterprise Test tools are designed for the requirements of customers who install, manage and maintain premises, enterprise, and broadband access networks. These task-ready, or single-task, test instruments are easy-to-use and allow technicians to Know the Network is ready to support the broad set of advanced communications, entertainment, and commercial applications used by consumers and businesses today.

From cabling testers and Ethernet network management tools to fiber optic and xDSL test instruments, JDSU Network and Enterprise solutions remove test complexity and allow you to Know the Network is ready for reliable, high-quality performance.

Test-Um
TEST SOLUTIONS BY JDSU
www.jdsu.com/know

Task-ready test tools from JDSU include the Test-Um line of enterprise network and home wiring test instruments, acquired by the company in April 2006, as well as those addressing the broadband access network test requirements of telecommunications and cable service providers.

JDSU Validator-NT™

All-in-One Network Management Tool

No other tester/certifier does so much, so easily, and so economically.

Validator-NT's patented method of uploading and downloading information about cable tests and network configuration will help you to gather the necessary information to manage your network easily, while documenting changes, upgrades or new configurations. Clear, fast Speed and Performance Certification up to 1 Gigabit combines with powerful planning software and active network capabilities to give you the complete tool for installing, managing and fine-tuning any Ethernet network.

- Certifies CAT5, CAT5E and CAT6 Ethernet cables to be 1EEE compliant to 1 gigabit speed for all Ethernet systems
- Tests to TIA 568/570 interconnect standards
- Tests coax, telephone, audio and security cables
- Qualifies VoIP lines
- Includes powerful Plan-Um™ Cabling Project Management software
- Creates and prints job reports and cable labels
- Active network capabilities for test, link and identification
- Certify, identify, configure and document your network

Kit includes:

Validator-NT Main Unit and Smart Remote, 2 lithium-ion rechargeable long-life batteries, 2 AC adapter/charger units, 4 adapter cable assemblies, Set of 8 wiremap remotes, USB cable assembly, Compact flash card, Plan-Um™ design layout software, Deluxe carrying case with cushioned sides.

ORDERING INFORMATION

NT955	*Validator-NT™ Ethernet Speed Certifier*	**$1,622.25**

JDSU *COPPER / NETWORK TESTERS*

JDSU Validator™

Network/Cabling LAN Certifier NT950

Designed specifically for Ethernet systems, the Validator™ NT950 measures and presents digital speed and performance results on CAT5, CAT5e, and CAT6 cables to ensure the cabling will do the job it's rated to do. Included software stores and organizes data into reports for billing, and archives network system information for later use in modifying or upgrading previously-installed systems.

Key Features

- Shows Pass/Fail, cable length and speed rating
- Create custom floor plans or import existing AutoCAD/Visio files
- Show specific ports for network, telephone and cable
- Print end-of-job report for billing purposes
- Print/email and save layouts for approval

Kit includes:

Validator™ main unit and smart remote, 2 lithium ion rechargeable long-life batteries, 2 AC adapter/charger units, 4 adapter cable assemblies, USB cable assembly, Compact flash card, Plan-Um™ design layout software, Deluxe carrying case with cushioned sides.

ORDERING INFORMATION

NT950	*Validator™ Ethernet Speed Certifier Kit*	**$1,265.40**

JDSU LanScaper™

Network Tester NT700 / NT750

The NT700 and NT750 is a network management device that combines cable testing and length measurement with the capability to monitor and correct network problems connected with the physical layer and link conditions of the network.

Key Features

- Wiremaps network connections with remote identifiers
- Displays advertised network speed/duplex
- Measures and reports any voltage on lines
- Generates multiple tone levels for signal tracing and cable identification

NT700 includes:

LanScaper, Remote #1, 12" cable assembly, RJ45 to alligator clip set, 2 pieces TP40, 12" cable assembly, unshielded RJ45 connectors, 2 pieces TP56, 7.5" cable assembly with no-fault RJ12 connectors for RJ11 and RJ45 jacks, 2 pieces TP20, Pouch PC150.

NT750 includes:

NT700 main unit with remote, Tone Tracer (TT100), 8 remote identifiers, RJ45 to coax adapter cables (TP50), F to BNC adapter (TP62), Carrying case.

ORDERING INFORMATION

NT700	*LanScaper NT700 Network Tester*	**$334.71**
NT750	*LanScaper NT750 Network Tester Kit*	**$453.44**

JDSU LanRoamer™

Tester/Analyzer TP500

This smart tester offers a new price/performance level for verification of wiring faults and configurations on data cable.

Package includes:

LanScaper, Remote #1, 12" cable assembly, RJ45 to alligator clip set, 2 pieces TP40, 12" cable assembly, unshielded RJ45 connectors, 2 pieces TP56, 7.5" cable assembly with no-fault RJ12 connectors for RJ11 and RJ45 jacks, 2 pieces TP20, Pouch PC150.

ORDERING INFORMATION

TP500	*LanRoamer™ Cable Tester and Fault Analyzer*	**$85.53**

JDSU LanRoamerPRO™

Tester/Analyzer TP600

This high-performance length measurement CAT 5/6 tester analyzes wiring faults and configurations on data cable.

Package includes:

LanRoamerPRO™, Remote #1, 12" (30.48 cm) cable assembly, RJ45 to alligator clip set TP40, 12" (30.48 cm) cable assembly, unshielded RJ45 connectors, 2 pieces TP56, Laminated quick reference card, Wire configuration sticker, Pouch PC150.

ORDERING INFORMATION

TP600	*LanRoamerPRO™ Cable Tester/Analyzer + Remote*	**$171.88**

JDSU LanRoamerPRO™ Kit

Test Kit TP607

Kit includes:

LanRoamerPRO™, Remotes #1–#8, 12" (30.48 cm) cable assembly, RJ45 to alligator clip set TP40, RJ45 to coax adapter, 2 pieces TP50, 12" (30.48 cm) cable assembly, unshielded RJ45 connectors, 2 pieces TP56, Wire configuration sticker, Laminated quick reference card, Carrying case PC400.

ORDERING INFORMATION

TP607	*LanRoamerPRO™ Test Kit + 8 Remotes*	**$287.86**

JDSU Tri-Porter™

Premises Wiring Tester for Voice, Data & Video

The all-in-one, low-cost, triple-play testing solution.

Tri-Porter™ IVT600-The Network Qualification and Testing Tool The first network installation tester that provides a full range of physical wiring tests for the fast, efficient delivery of IP-based voice, data and video services in the home or small office with one integrated tool.

Tri-Porter™ replaces up to 6 traditional testing tools.
Testing and verifying IP-based services in your customers' premises now takes less time and is more convenient and economical than ever before. Coax runs, network systems and voice/telephony lines are all easily tested and verified for service levels to assure optimal performance.

Network Testing: 10Mb or 100Mb Ethernet
Cable Types: Shielded or unshielded CAT-3, CAT-5, CAT-5E or CAT-6; coax; 2-, 4- and 6-pair telephone cabling.

Tri-Porter™ comes with a handy carrying case, which holds both the main unit and the remote tester/tracer, along with the 20-piece wiremapping sets for remote discovery of telephone, coax, and network cables.

ORDERING INFORMATION

IVT600	*Tri-Porter™ Premises Wiring Tester for VDV*	**$799.00**

JDSU Testifier™ TP350

Cable Tester and Verifier

Key Features

- LCD display
- Easy-to-read results
- Built-in remote
- Auto-off
- Unbreakable case

The new Test-Um TP350 Testifier produces the most accurate and easy-to-understand results of any cable tester/verifier on the market. Its large LCD display is easy to read--it shows a clear picture of a wired cable; data, coax, telephone, security/alarm, or unterminated site wire.

A powerful, precise and professional cable tester/verifier for all wired cable runs, including: network, coax, telephone, audio, security.

CATV, telephone systems, audio cable, security/alarm wiring, and network cabling can all be tested and located using the Resi-TesterTM (TP350)and optional room identifier sets. Multiple input ports and included adapter cables mean any wire can be attached and tested!

Package includes:

Testifer™, #1 replacement remote TP309, #1 coax remote identifier TP65, 12" (30.48 cm) cable assembly, RJ45 to alligator clip set TP40, 7.5" (19.05 cm) cable assembly with no-fault RJ12 connectors for RJ11 or RJ45 jacks TP20.

ORDERING INFORMATION

TP350	*Testifier™ Cable Tester*	**$93.00**

JDSU Wi-Net Window™

Wireless Network Analyzer

To install, expand or operate a wireless network, you need to see critical information about where the best location is for components, what access should be allowed and where or what security is in place. The Wi-Net Window™ WP150 handheld analyzer provides information on the types of wireless networks that surround you.

ORDERING INFORMATION

WP150	*Wi-Net Window™ Wireless Network Analyzer*	**$280.75**

JDSU Wi-Net Window™ Kit

Wireless Analyzer + Testifier™

Perfect for installers and technicians setting up wired and wireless applications.

Kit includes:

Wi-Net Window™ WP15 Wireless Network Tester & Testifer™ TP350 Tester in a Zipper Nylon Case with Storage Pockets

ORDERING INFORMATION

KP255	*Wired Wireless Kit*	**$366.29**

JDSU Net-Rite™

Ethernet Network Tester

The Net-Rite™ TP250, a continuity and wiremap tester for Ethernet cable, tests and troubleshoots faults and miswires. This continuity/wiremap tester detects and troubleshoots faults and miswires in Ethernet cable up to 1000 ft (304.8 m) long. Its removable remote enables testing longer cable runs terminated in different areas.

Applications: Tests Ethernet cable for opens, shorts, split pairs, miswires and reversals.

ORDERING INFORMATION

TP250	*Net-Rite™ Continuity and Wiremap Tester*	**$48.38**

TP250 includes
Net-Rite™ main unit, Remote, Four batteries

JDSU

Video Inspection Probe Solution

From next-generation network installation to managing legacy systems, there are fundamental tools that every fiber optic technician uses. From optical power meters and visual fault locators to video microscope systems and cleaning materials, these tools are essential to anyone who handles fiber. Achieving optimized performance requires systematic and proactive methods that many technicians can find troublesome and confusing. The JDSU Essential Fiber Toolkits overcome barriers by integrating the essential tools together into a seamless system that is fast, portable, and easy.

FIT-S105-PRO

Fiber Inspection Probe

- Dual-magnification (200/400X) FBP video probe microscope
- Handheld inspect and test display system with integrated power meter and 400X PCM
- Interchangeable FBPT inspection tips (2):
- hhSC-PC bulkhead
- hhLC-PC bulkhead
- FMAE adapters (2) for PCM:
- hhUniversal 2.5 mm PC patch cord
- hhUniversal 1.25 mm PC patch cord
- Plastic case for inspection tips and adapters
- Carrying case

ORDERING INFORMATION

FIT-S105-PRO	*JDSU Fiber Inspection & Test Kit*	**$3,150.00**
FIT-S105-C	*KIT HP3-60-P4, P5, TIPS, CLEANING TOOLS*	**$2,800.00**

Kit Includes: Handheld Display with integrated Power Meter & 400X Patch Cord Module. Includes 200/400X FBP Probe Microscope, FBPT Tips (SC, LC), FMAE Adapters, (U25M, U12M), Bulkhead/Patchcord Cleaning Tools (2.5mm & 1.25mm), Case & power supply - US

FIT-S105	*Kit HP3-60-P4 w/ FBP 200/400x probe*	**$2,500.00**

Kit Includes: Handheld Display with integrated Power Meter & 400X Patch Cord Module. Includes 200/400X FBP Probe Microscope, FBPT Tips (SC, LC), FMAE Adapters (U25M, U12M), Case & power supply - US

FBP-SD01

Fiber Inspection Probe

- Dual-magnification (200/400X) P5000 digital probe microscope with USB 2.0 plug
- FiberChek2 automated fiber inspection and analysis software
- Interchangeable FBPT inspection tips (4) in tip case:
- hhSC-PC bulkhead
- hhLC-PC bulkhead
- hhUniversal 2.5 mm PC patch cord
- hhUniversal 1.25 mm PC patch cord
- Carrying case

ORDERING INFORMATION

FBP-SD01	*Inspection Kit Digital FBP-P5000, Fiber*	**$2,200.00**

Kit Includes: Digital FBP-P5000, FiberChek2 software, Case, SC, LC, 2.5 & 1.25 Univ Tips, all-digital USB 2.0 inspection probe (P5000) coupled with FiberChek2 software, SC & LC bulkhead inspection tips and universal 2.5mm and 1.25mm patchcord inspection tips, and a carrying case.

FBP-P5000	*Digital Quick Capture Dual Mag Probe USB*	**$2,380.00**

Kit Includes: Dual-magnification (200/400X) P5000 digital probe microscope with USB 2.0 plug FiberChek2 automated fiber inspection and analysis software Interchangeable FBPT inspection tip (1) in tip case: hhUniversal 2.5 mm PC patch cord, Carrying case

FBP-S003

Fiber Inspection Probe

The FBP-S003 is a Dual-magnification (200/400X) FBP probe microscope hardwired to HD1 display with 3.5-in TFT LCD; interchangeable FBPT inspection tips (4) in hard case: SC and LC bulkhead tips; Universal 2.5 mm and 1.25 mm patch cord tips; hard-sided carrying case.

ORDERING INFORMATION

FBP-S003	*DUAL- magnification 200/400x Probe Kit*	**$2,400.00**
FBP-S002	*Probe Kit: 400X FBP Probe, Hardwired*	**$2,200.00**

Kit Includes: 200x FBP-P1-400 probe hardwired to an FBP-HD1 display. It also includes inspection tips for SC & LC bulkheads and universal 1.25 & 2.5mm patch cords, a power supply, and hard case.

FBP-S001	*Probe Kit: 200X FBP Probe, Hardwired*	**$2,200.00**

Kit Includes: 200x FBP-P1 probe hardwired to an FBP-HD1 display. It also includes inspection tips for SC & LC bulkheads and universal 1.25 & 2.5mm patch cords, a power supply, and hard case.

FBP-SM05

Fiber Inspection Probe

The HD3-P display further expands the value of the popular HD3 series by integrating a PATCHCORD MICROSCOPE (PCM) into the compact design. By combining the power of two microscopes into one system, the HD3-P enables you to inspect both the "female" (bulkhead) and "male" (patch cord) sides of a fiber interconnect at the same time. The patch cord scope accepts our FMAE Series adapters, but is configurable to accept FMA Series adapters with the use of a coupler

ORDERING INFORMATION

FBP-SM05-C	*INSPECTION AND CLEANING KIT- 200/400X*	**$2,400.00**

Kit Includes: FBP series Dual Magnification (200/400X) Probe Microscope with an integrated HD3-P4 display (includes a power supply/charger with US plug). Also included are 2 FBPT series inspection tips (SC & LC) for bulkhead inspection and 2 FMAE adapters (Univ. 2.5mm and Univ 1.25mm) for inspecting patch cords.

FBP-SM05	*INSPECTION KIT – 200/400X FBP W/HD3-P4*	**$2,100.00**

Kit Includes: FBP series Dual Magnification (200/400X) Probe Microscope with an integrated HD3-P4 display (includes a power supply/charger with US plug). Also included are 2 FBPT series inspection tips (SC & LC) for bulkhead inspection and 2 FMAE adapters (Univ. 2.5mm and Univ 1.25mm) for inspecting patch cords. Kit also includes a carrying case which holds all the components of this kit.

FBP-SM03
Fiber Inspection Probe

The FBP-SM03 features our industry leading 200/400x FBP-P5 probe hard-wired to an FBP-HD3 display. It also includes inspection tips for SC & LC bulkheads and universal 1.25 & 2.5mm patch cords, a power supply, and case.

ORDERING INFORMATION

FBP-SM03-C	*Inspection & Cleaning Kit 200X/400X FB*	**$2,050.00**
Kit Includes: 200X/400X FBP Probe, HD3 Display, FBPT tips SC, LC, FC, ST, SC-APC, U25M, U25MA, U12M, Bulkhead/Patchcord Cleaning Tools (2.5mm & 1.25mm), carrying case & power supply/charger		
FBP-SM03	*Probe Kit: 200/400X FBP Probe, Hardwired*	**$1,750.00**
Kit Includes: 200/400X FBP Probe, Hardwired to HD3 Display, Case, Tips: SC, LC, U25, U12		

JDSU FBPT Probe Tips

FBPT-U25M	Universal 2.5mm Patch Cord Tip	**$70.00**
FBPT-U25MA	Universal 2.5mm Patch Cord Tip, APC Polish	**$80.00**
FBPT-U12M	Universal 1.25mm Patch Cord Tip	**$70.00**
FBPT-U12MA-SF	Universal 1.25mm Patch Cord Tip, APC Polish	**$110.00**
FBPT-SC	SC Bulkhead Tip	**$50.00**
FBPT-SC-L	SC Bulkhead Tip, Long Reach	**$300.00**
FBPT-SC-APC	SC-APC Bulkhead Tip	**$100.00**
FBPT-SC-A6	SC Bulkhead Tip, Ang. 60 Deg.	**$450.00**
FBPT-ST	ST Bulkhead Tip	**$70.00**
FBPT-ST-A6	ST Bulkhead Tip, Ang. 60 Deg.	**$500.00**
FBPT-LC-L	LC Bulkhead Tip, Long Reach	**$300.00**
FBPT-LC-APC	LC-APC Bulkhead Tip	**$450.00**
FBPT-LC	LC (LX5 Connectors) Bulkhead Tip	**$70.00**
FBPT-FC	FC Bulkhead Tip	**$70.00**
FBPT-FC-A6	FC Bulkhead Tip, Ang. 60 Deg.	**$500.00**
FBPT-FC-APC	FC-APC Bulkhead Tip	**$150.00**
FBPT-FCA-1	FC-APC Bulkhead Tip, No Collar	**$150.00**
FBPT-E2000	E2000 Bulkhead Tip, APC or PC	**$475.00**
FBPT-SMA	SMA Bulkhead Tip	**$375.00**
FBPT-MU	MU Bulkhead Tip	**$110.00**
FBPT-MTRJ-1	MTRJ (simple type) Bulkhead Tip	**$135.00**
FBPT-MTP-L	MTP/MPO PC Bulkhead Tip	**$725.00**
FBPT-MTPA-L	MTP/MPO APC Bulhead Tip	**$1,000.00**
FBPT-MTPA	MTP-APC X-AXIS PAN KNOB FOR FBP	**$925.00**
FBPT-UFMA	Westover Universal Flare Adapter	**$70.00**

FBE-SM2-C
Fiber Inspection Probe

The JDSU Westover FBE-series probe microscopes serve as portable analog video microscopes for inspecting fiber optic connectivity. While most fiber microscopes can only inspect male connectors, such as patch cords or pigtails, the JDSU FBE probe inspects both male (patch cord) and female (bulkhead) ends of an optical interconnect.

ORDERING INFORMATION

FBE-SM2-C	*Inspection & Cleaning Kit 400X FBE Pro*	**$1,600.00**
Kit Includes: 400X FBE Probe, Hardwired to HD3 Display, FBET tips SC, LC, FC, ST, SC-APC, U25M, U25MA, U12M, Bulkhead/Patchcord Cleaning Tools (2.5mm & 1.25mm), Soft Case & power supply/charger		
FBE-SM2	*INSPECTION KIT 400X FBE PROBE W/HD3*	**$1,300.00**
Kit Includes: 400X FBE Probe, Hardwired to HD3 Display, FBET tips SC, LC, U25M & U12M, Soft Case, power supply/charger		
FBE-SM1-C	*Inspection & Cleaning Kit 200X FBE Prob*	**$1,550.00**
Kit Includes: 200X FBE Probe, Hardwired to HD3 Display, FBET tips SC, LC, FC, ST, SC-APC, U25M, U25MA, U12M, Bulkhead/Patchcord Cleaning Tools (2.5mm & 1.25mm), Soft Case & power supply/charger		
FBE-SM1	*Low Magnification (200x) FBE Probe*	**$1,300.00**
Kit Includes: 200X FBE Probe, Hardwired to HD3 Display, includes SC, LC, U25M & U12M tips, Soft Case		

JDSU FBET Probe Tips

FBET-U25M	Tip, Univ. 2.5mm Patch Cord, for FBE	**$20.00**
FBET-U25MA	Tip, Univ. 2.5mm Patch Cord, APC, for FBE	**$30.00**
FBET-U12M	Tip, Univ. 1.25mm Patch Cord, for FBE	**$30.00**
FBET-SC	Tip, SC Bulkhead, for FBE	**$20.00**
FBET-SCA	Tip, SC/APC Bulkhead, for FBE	**$30.00**
FBET-LC	Tip, LC Bulkhead, for FBE	**$30.00**
FBET-FC	Tip, FC Bulkhead for FBE	**$15.00**
FBET-ST	Tip, ST Bulkhead, for FBE	**$20.00**

EXFO Inspection Probes

EXFO FIP-400S / FIP-400D

Fiber Inspection Probes

Thanks to EXFO's FIP-400 Fiber Inspection Probe, checking connectors and other fiber terminations for polish quality and cleanliness has never been easier. Benefit from the best optical resolution in the industry and see scratches and dirt particles as small as 1 ìm.

EXFO Probes

FP4S	*FIP-400-P-SINGLE: 400x Fiber Inspection Probe*	**$1,285.00**
FP4D	*FIP-400-P-DUAL: 200x/400x FIP*	**$1,730.00**
FIP-400-D	*Handheld display with power supply and rechargeable battery*	**$850.00**
FIP-400-D-SINGLE	*400x Video Inspection Probe KIT with handheld display*	**$1,950.00**
FIP-400-D-DUAL	*200x/400x Video Inspection Probe KIT with handheld display*	**$2,325.00**
FIP-400-USB2SIN	*400x Video Inspection Probe KIT w/ USB2 converter*	**$1,495.00**
FIP-400-USB2DUA	*200x/400x Video Inspection Probe KIT w/ USB2 converter*	**$1,895.00**
FIP-400-USB2	*USB 2.0 Converter Module*	**$375.00**
FIP-400-USB1SIN	*400x Video Inspection Probe KIT w/ USB1 converter*	**$1,495.00**
FIP-400-USB1DUA	*200x/400x Video Inspection Probe KIT w/ USB1.1 converter*	**$1,895.00**
FIP-400-USB1	*USB 1.1 Converter Module*	**$375.00**

PRO - VIP - Kit 1 / Kit2

Video Inspection Probe

The VIP-35 Inspection Probe is designed to provide customers the ability to troubleshoot network performance issues (most commonly caused by dirty connectors) by inspecting the endface of a connector for debris. The VIP-35 kit includes a 400x power probe and a 3.5 inch display for easy viewing of small particles which may exist on the connector. With the included probe tips, the user has the ability to check the quality of both the cable and bulkhead connectors.

Kit Includes:
Hard Carrying Case
400X Probe and Monitor
AC Charger

Kit 1 Adapters:
FC/SC/ST Bulkhead Adapter
2.5mm Universal Adapter

Kit 2 Adapters:
FC/SC/ST Bulkhead Adapter
LC Bulkhead Adapter
2.5mm Universal Adapter
1.2mm Universal Adapter

SPECIFICATIONS

	VIP- 35 Kit 1	VIP- 35 Kit 2
Magnification	400X	
Screen size	3.5 in	
Dimensions	5.51 x 3.03 x 1.53 in	
Weight	15.7 oz	
Screen type	TFT Active Matrix	
Video output	PAL / NTSC	
Power	12V DC Built-in Li-on Rechargeable Battery	
Input Power	110-240V AC Adapter	
Power supply	AC or DC Operation	
Battery	3 Hours	
Charging	3 Hours	
Operating Temperature	+ 4 °F to 122 °F (-10 °C to +50 °C)	
Connectors Included	Universal Patch Cord Tip	
Adapters Included	2.5mm / 1.25mm / 2.5mm (bulkhead) / LC (bulkhead)	
Data Storage	No (Coming soon)	
Data Download	No (Coming soon)	

ORDERING INFORMATION

PRO-VIP-35-K1	*3.5 in Video Inspection Kit - 2 Tips*	**$995.00**
PRO-VIP-35-K2	*3.5 in Video Inspection Kit - 4 Tips*	**$1,200.00**

FiberOptic.com

Inspection & Cleaning Kit

Inspection set including, one hand-held fiber microscope with 400x magnification, one 2.5mm and one 1.25mm universal adapter, three batteries, one fiber optic connector cleaner, one tape cartridge for fiber optic connector cleaner, hard case, one users manual.

ORDERING INFORMATION

FOM-TK-001-C400	*Microscope, Cletop & refill, Case*	**$395.00**

FiberOptic.com

Hand-Held Microscopes

The Mini Hand-Held Microscope is available in 200x and/or 400x magnification. White LED lighting is powered by two "3V" Lithium cell batteries.

ORDERING INFORMATION

FOM-HM-C200S	*FOM 200X Microscope*	**$199.00**
FOM-HM-C400S	*FOM 400X Microscope*	**$240.00**

NOYES

Fiber Optic Inspection Scope

The Noyes OFS-300 with universal adapter (ST, FC & SC) is a versatile instrument used to inspect fiber optic connectors. Recommended for both multimode and singlemode applications. Operates on 2 AA alkaline batteries.
Call for additional adapters.

ORDERING INFORMATION

OFS-300-200C	*Noyes 200X Scope w/ 2.5mm adapter*	**$399.00**
OFS-300-400C	*Noyes 400X Scope w/ 2.5mm adapter*	**$449.00**

JDSU / WESTOVER

Hand-Held Microscopes

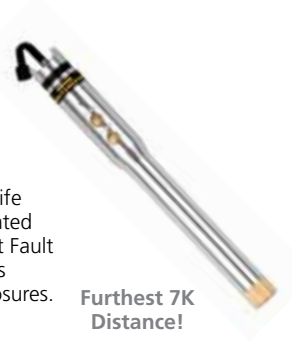
The FM-L200 is a ruggedized field scope with magnification of 200x and oblique illumination. It comes with a universal 2.5mm adapter (ST, SC, and FC connectors).

ORDERING INFORMATION

FM-L200	*Hand Held Microscope, 200X, Universal*	**$200.00**
FM-C400	*Hand Held Microscope, 400X, Coaxial*	**$240.00**
FM-DI200	*Westover 200x Dual Illumination Scope*	**$240.00**

VISUAL FAULT LOCATORS

FOM Fault Locator
Pocket Visual Fault Locator



The FOM Pocket Fault Locator is rugged and lightweight. The unit has a 30 hour battery life in continuous mode and 40 hours in modulated mode. The bright 650 nm laser in the Pocket Fault Locator ensures fast and easy location of loss points in patchcords, patchpanels and enclosures.

ORDERING INFORMATION

FOM-9000	*FOM Pocket Visual Fault Locator*	**$250.00**

NOYES HiLite & VFI2
Visual Fault Identifiers

The HiLite and VFI 2 are compact but powerful visible red laser sources designed to troubleshoot faults on fiber optic cables. Light generated by these units will escape from sharp bends and breaks in jacketed or bare fibers, as well as poorly mated connectors. They can identify faults in fiber optic jumper cables, distribution frames, patch panels, and splice trays.

The HiLite and VFI 2 are an excellent complement to an OTDR because they can locate faults inside the OTDR's dead-zone. Other applications include end-to-end continuity checks, identifying connectors in patch panels and fibers during splicing operations. The universal connector interface provides fast operation with many connector styles without changing an adapter.

VFI2

Features
- 650 nm visible red laser source
- Compact size
- High power (1 mW)
- Universal connector interface for quick connection

HiLite

ORDERING INFORMATION

VFI 2	*VFI 2 unit, instruction card, and carrying case.*	**$397.00**
HILITE	*HiLite unit, instruction card, and carrying case.*	**$279.00**

PRO VFL-1A
Visual Fault Locator

SPECIFICATIONS

	VFL-1A
Wavelength	650 ± 10nm
Emitter type	LD
Connector type	FC/ST/SC
Modulated Frequency	2 Hz
Output Power	0, 3, 8 dBm (adjustable)
Power Supply	AC/DC adapter & Li-ion Battery
Battery Life	20 hours (continuous operation)
Operating Temperature	14 to 122 °F (-10°C to +50°C)
Storage Temperature	-14 to 158 °F (-20°C to +70°C)
-20°C to +70°C	0 ~ 95%
Dimension (mm)	115L x 65W x 30H
Weight	140g

EXFO FLS-240 Pocket Pal
Visual Fault Locator

The Pocket Pal is the easiest way to identify fibers from end to end and locate polished connector endfaces. Its red laser shines through most yellow-jacketed fibers to help you pinpoint breaks, bends, faulty connectors, splices and other causes of signal loss. It has a reach of up to 5 km. The convenient FLS-240 locates faults visually by creating a bright red glow at the exact location of the fault on singlemode or multimode fibers.

ORDERING INFORMATION

FLS-241-UNIV	*Pocket Pal VFL - 635nm Wavelength , 2.5mm sleeve*	**$370.00**
GP-1008	*VFL Adapter (2.5mm to 1.25mm)*	**$125.00**

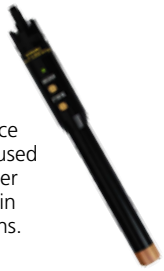
WILCOM Pen-Style VFL
Pocket Visual Fault Locator

The Wilcom Pocket Visual Fault Locator is a pencil style that features a universal connector accepting any optical connector style with a 2.5mm ferrule. The F6230A emits a visible red light, which can be seen for up to 5 km. Designed for singlemode and multimode.

ORDERING INFORMATION

F6230A	*Pocket VFL w/ Universal Adapter*	**$280.00**
30032232-01	*F2630A Adapter - Converts 2.5mm to 1.25mm*	**$95.00**

PRO VFL-10
Pocket Visual Fault Locator



The VFL-10 is a compact but powerful visable light source with an output power up to 8dBm. The VFL-10 can be used to locate sharp bends and breaks in jacketed or bare fiber within 10km. It can also be used to identify connectors in patch panels or indentify fibers during splicing operations.

ORDERING INFORMATION

VFL-10	*VFL-10*	**$250.00**

The VFL-1A is a compact but powerful visable light source with three (3) variable output power levels which include 0 / 3 / 8 dBm. The VFL-1A can be used to locate sharp bends and breaks in jacketed or bare fiber within 10km. It can also be used to identify connectors in patch panels or indentify fibers during splicing operations.

Features:
- 3 adjustable output powers 0/3/8 dBm
- Back-light for LCD display
- Auto Shut-off

Standard Accessories:
(SC/PC, ST/PC, FC/APC), Carrying Bag, User Manu
AC/DC power adaptor, Test report

ORDERING INFORMATION

VFL-1A	*VFL-1A*	**$395.00**

PRO Optical Fiber Identifiers

The PRO Optical Fiber Identifier is a rugged, easy-to-use installation and maintenance instrument which identifies optical fibers by detecting the optical signals being transmitted through a fiber. By utilizing local detection technology (non-destructive macro-bend detection which does not damage or over-stress the fiber), the unit eliminates the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service. The Optical Fiber Identifier detects low frequency tones at 270 Hz, 1000 Hz and 2000 Hz. When traffic is present on the fiber under test, an audible tone can be heard as well as the traffic direction which is indicated by LEDs illuminating on the probe.

OFI-11

Optical Fiber Identifier

Features:

- Detect a variety of optical tones, 270Hz, 1kHz and 2kHz
- Powered by 2 units of 1.5V AA alkaline batteries
- RB0.25mm, RB0.9mm, RB3 .0mm plungers available

Standard accessories:

Carrying case, Manual, Battery, Two enterchangable adapter head (clamps), for jacketed and bare fiber, Test report

Optional accessories:

RB2.0mm plunger

OFI-22

Optical Fiber Identifier

Features:

- Effectively identifies traffic direction anc frequency tones (270Hz, 1KHz, 2KHz) without any damage to the fibers.
- Core Power display of the fibers (-48~+0Bm) at 0.9mm fiber.
- Very low loss (fiber attenuation) when testing is in process.
- Easily replaceable adapterss; 0.25mm (250 micron), 0.9mm (900 micron), 2.0mm, 3.0mm to satisfy various optical cables.
- Easy-to-use one button operation

Standard Accessories:

Optical Fiber Identifier, Adapter Heads (4pcs), Battery, User Manual, Portable Bag

ORDERING INFORMATION

OFI-11	*OFI-11 Optical Fiber Identifier*	**$1,195.00**
OFI-22	*OFI-22 Optical Fiber Identifier*	**$1,795.00**

Wilcom Optical Fiber Identifiers

The Wilcom Models F6222 and F6222C Optical Fiber Identifier are a rugged, easy-to-use installation and maintenance instrument which identifies optical fibers by detecting the optical signals being transmitted through a fiber. The Model F6222C Optical Fiber Identifier is designed specifically to meet the needs of the CATV industry. By utilizing local detection technology (nondestructive macro-bend detection which does not damage or overstress the fiber), the unit eliminates the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service. Both Optical Fiber Identifiers detect low frequency tones at 270 Hz, 1000 Hz and 2000 Hz. When traffic is present on the fiber under test, an audible tone can be heard as well as the traffic direction which is indicated by LEDs illuminating on the probe.

F6222 / F6222C

Optical Fiber Identifier

Features:

- Rugged Metal Case:- The units use the same field proven lightweight rugged metal housing as the rest of Wilcom's Optical FIber Identifier product line.
- 850nm to 1700nm Range:- With the use of InGaAs detectors, the unit can be used on singlemode and multimode applications.
- Audible Tone:- The unit provides an audible tone in the presence of a fiber optic signal.
- Core Power Display:- Both the F6222 and F6222C can display Relative Core Power which is helpful in identifying bad connectors, splice points, etc.
- LED Indication:- LEDs indicate tone detection, Traffic presence, Traffic Direction, and Low Battery.
- Hands-Free-Operation:- With an easy to use thumb lock, hands-free operation can be enabled and disabled.

Standard Accessories:

Carrying pouch containing three easy to use field interchangeable adapter heads to accommodate; 900 µm buffered fiber, ribbon or 250µm coated fiber and 3mm jacketed fiber

ORDERING INFORMATION

F6222	*Wilcom F6222*	**$1,795.00**
F6222C	*Wilcom F6222C*	**$1,795.00**

NOYES Optical Fiber Identifiers

Noyes Optical Fiber Identifiers are rugged, handheld, and easy-to-use fiber optic test instruments designed to detect optical signals transmitted through a single-mode fiber without disrupting traffic. During installation, maintenance, rerouting, or restoration; it is often necessary to isolate a specific fiber. By simply clamping an Optical Fiber Identifier onto a gently bent fiber, the unit will indicate if there is [No Signal], [Tone], or [Traffic] and identify signal direction. The OFI is equipped with a unique two-position head design that can be configured to work with 250 µm, 900 µm, ribbon, or jacketed fiber in seconds, without tools or adjustments. When testing coated fibers, the slim design allows easier access on a splice tray where the amount of work space is limited. The clamping trigger is ergonomically designed to fit the natural motion of the operator's hand. A high impact molded plastic case makes it suitable for use outside plant or in the central office. The OFI is battery operated with the battery indication feature and performs thousands of tests before batteries replacement is necessary.

OFI 200

Optical Fiber Identifier

Features:
- Rugged, handheld, lightweight
- Accepts 250µm and 900µm coated fiber, 3mm jacketed fiber cable, and ribbon fiber
- No head swapping or adjustments
- Identifies light carrying fiber
- Low insertion loss - traffic remains uninterrupted
- Indicates direction of traffic
- Indicates Tone signal visually and audibly
- 2kHz Tone detection
- Battery operated
- Low battery indication
- Low cost, easy to use

OFI 400

Optical Fiber Identifier

The OFI 400 model Identifier is the next generation of Noyes Optical Fiber Identifiers. It has all the features of the OFI 200 model plus easy-to-read LCD display with Backlight, multiple [TONE] signal detection (270 Hz, 330 Hz, 1 kHz, or 2 kHz), power saving feature, and [Set Reference] feature. The OFI 400 model also measures and displays fiber core power or relative power on an LCD display.

Features:
- 270 Hz, 330 Hz, 1 kHz, and 2 kHz Tone detection
- Easy-to-read LCD display with Backlight
- Measures fiber core or relative power
- Power Off and Set Reference feature
- Battery operated
- Low battery indication
- Low cost, easy to use

ORDERING INFORMATION

OFI200	*Noyes Fiber Identifier OFI 200*	**$1,495.00**
OFI400	*Noyes Fiber Identifier OFI 400*	**$1,495.00**

EXFO LFD-300 / TG-300

Live Fiber Identifier

For detecting dark/live fibers or identifying a particular dark fiber using a pulse light (270 Hz, 1 kHz, 2 kHz), traditional LFD functionnalities do the trick. However, they cannot pinpoint a specific live fiber—especially with doubtful labeling and poor record-keeping—and help you ensure you disconnect the right one. In addition, disconnecting the wrong fiber causes downtime, a costly consequence that can easily be avoided. For instance, at US$10,000 per hour and per wavelength, downtime can cost up to US$160,000 per hour for a 16-channel 10 Gbit/s WDM system. Combined with the TG-300, a non-intrusive, non-disruptive clip-on signature generator that is based on FiberFinder technology, EXFO's LFD-300 addresses this need with guaranteed low loss. Installed at the transmitter site, the TG-300 adds a typical 0.25 dB signature to the live signal by applying a soft low-frequency modulation pressure to the fiber. This signature is then detected at the other end by the LFD-300, in mere seconds, enabling technicians to identify a specific live fiber without having to disconnect it and, above all, withouthaving to guess.

Features:
- Maximum loss of 1 dB guaranteed for most singlemode telecom fibers (most jacket types) and any wavelength
- No damage to the fiber: bending is always minimal, and the fiber is released when no power is detected
- Traffic detection and direction identification
- In-line, non-disruptive power estimation
- Safe to be used in long-haul applications and on high-payload fibers contrary to traditional live fiber detectors
- Optimized for 900¼m, 1.6 mm and 3 mm jackets; no need to replace the headpiece

ORDERING INFORMATION

LFD-300	*LFD-300 Live Fiber Identifier*	**$2,995.00**
TG-300	*TG-300 Tone Generator*	**$3,595.00**
TK-FF	*Fiber Finder kit*	**$5,995.00**

Kit Includes: (1) LFD-300, (1) TG-300 and (1) soft carrying bag

SPECIFICATIONS

Fiber type	3 mm, 1.6 mm, 900 µm	
Insertion loss (dB)	Maximum guaranteed	1
	1550 nm	0.5
	1310 nm	0.3
Power range (dBm)	25 to –35	
Power measurement repeatability (dB)	±1	
Test time (s)	<20	
Size (H x W x D)	9 5/8 in x 1 3/4 in x 2 1/4 in	
Weight (no batteries)	0.8 lb	
Temperature	operating	32 °F to 122 °F
	storage	–40 °F to 158 °F
Relative humidity	0 % to 93 % non-condensing	

PRO Launch Boxes

Description:
Used in conjunction with PRO Optical Time Domain Reflectometer (OTDR). Fiber optic pulse suppressors eliminate dead zones. Dead zones occur after a reflective event. The first reflective event where the OTDR plugs into the bulk head , will have a 2 – 5 meter dead zone. Making it impossible to measure loss 2 – 5 meters beyond the event. The use of a pulse suppressor will move the dead zone away from crucial connections and splice points. Providing your trace with accurate test results in areas where loss must be calculated. Having a second pulse suppressor at the end of the cable under test will enable the OTDR to compare back scatter levels before and after the last reflective event.

Testing & Troubleshooting:
Plug side A of the pulse suppressor directly into the OTDR, and side B into the cable under test. This will eliminate dead zones for your first connection point. Plug pulse suppressor #2 into the end of cable under test as a landing point. This gives you the ability to see loss on both sides of the last reflective event.

Optional: "Test Box"
As an optional feature, you can request optical events be added to your pulse suppressor to create a "test box" which is used to verify the accuracy of your OTDR. (e.g. A test box measurement which matches the reference documentation supplied means your OTDR is still calibrated) Recommended length is 1KM+ to ensure accuracy over distance.

Features:
- Rugged Pelican Case
- 2 meter lead cables
- Corning fiber optic cable
- Optional Events: "Test Box"
- Fusion Splice
- Macro Bend
- Attenuator

Model Number	Description	Included with Kit	Price
LB-M-100-XX-YY	**100 meter Multimode (62.5um)** One hundred meter 62.5/125 multimode fiber.	Pelican case (2) 2 meter lead cables (2) Connectors (2) Dust caps	**$600.00**
LB-M-300-XX-YY	**300 meter Multimode (62.5um)** Three hundred meter 62.5/125 multimode fiber.	Pelican case (2) 2 meter lead cables (2) Connectors (2) Dust caps	**$600.00**
LB-N-100-XX-YY	**100 meter Multimode (50um)** One hundred meter 50/125 multimode fiber.	Pelican case (2) 2 meter lead cables (2) Connectors (2) Dust caps	**$600.00**
LB-N-300-XX-YY	**300 meter Multimode (50um)** Three hundred meter 50/125 multimode fiber.	Pelican case (2) 2 meter lead cables (2) Connectors (2) Dust caps	**$600.00**
LB-S-1KM-XX-YY	**1000 meter Singlemode (9um)** One thousand meter 9/125 singlemode fiber.	Pelican case (2) 2 meter lead cables (2) Connectors (2) Dust caps	**$800.00**
LB-S-500-XX-YY	**500 meter Singlemode (9um)** Five hundred meter 9/125 singlemode fiber.	Pelican case (2) 2 meter lead cables (2) Connectors (2) Dust caps	**$800.00**
LB-S-300-XX-YY	**300 meter Singlemode (9um)** Three hundred meter 9/125 singlemode fiber.	Pelican case (2) 2 meter lead cables (2) Connectors (2) Dust caps	**$800.00**

Replace the XX and YY from the specifications table (above) with the connector style of your choosing.
The XX represents the first connector within your Pulse Suppressor and the YY represents the second connector.

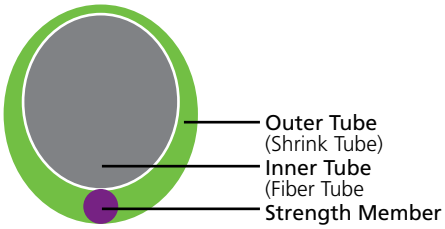
Connector Style	SC (UPC / APC)	ST (UPC)	FC (UPC / APC)	LC (UPC / APC)
XX	CU / CA	TU	FU / FA	LU / LA
YY	CU / CA	TU	FU / FA	LU / LA

SPLICE SLEEVES & MECHANICAL SPLICES

FOM Standard Sleeve - (3.0 MM After Shrink)

This sleeve design is the industry's highest quality, most reliable and most economical. Standard lengths include 60mm and 40mm. Sleeves come standard with a clear outer tube for viewing the color of the fiber itself, and a steel wire for support and stability.

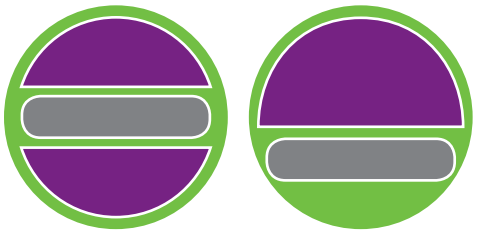
FOM-1002	*60mm Clear Splice Sleeves*	**$0.55**
FOM-100240	*40mm Clear Splice Sleeves*	**$0.65**
FOM-1002R	*60mm Red Splice Sleeves*	**$0.55**



FOM Ribbon Sleeves

FOM offers two ribbon sleeve style: Dual Strength Member and Single Strength Member. The Dual Strength Member design eliminates any undue stress on the ribbon, creating a perfectly flat exit for the ribbon. Also available with a ceramic strength member.

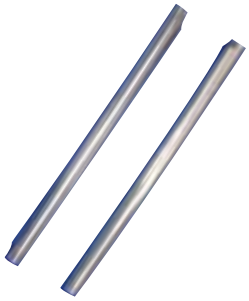
FOM-100240R	*Single Strength, 40mm Clear*	**$0.65**
FOM-10112DP	*Dual Strength, 40mm Clear*	**$1.20**



Micro Sleeve & Mini Sleeve

Designed to fit in smaller splice storage areas, the Micro protection sleeves will accommodate 250µm coated fibers and have an after-shrink diameter of 1.5mm. The Mini Sleeves will accommodate 900µm or 250µm coated fibers, and have an after-shrink diameter of 2.0mm.

MCRO140CFD	*40mm Clear - Micro Splice Sleeves*	**$0.65**
MCRO125CFD	*25mm Clear - Micro Splice Sleeves*	**$0.55**
MINI140CDS	*40mm Clear - Mini Splice Sleeves*	**$0.65**
MINI140CDS	*25mm Clear - Mini Splice Sleeves*	**$0.65**



Splice Sleeve
Bulk Order Discounts Available!
Call 877.529.9114

CamSplice Mechanical Splice

This easy to install one size fits all mechanical splice features "Cam" locking mechanism, which requires no adhesive. The CamSplice incorporates a unique alignment method that self-centers fibers, providing accurate alignment. Splice loses of less than 0.05dB are consistently achievable. Fits 250/250µm, and 250/900µm or 900/900µm applications (one size fits all).

95-000-04	*CamSplice™ Mechanical Splice (Pack of 6)*	**$147.60**
2104040-01	*CamSplice™ Mechanical Splice Assembly Fixture*	**$235.00**

3M™ Fibrlok Mechanical Splice

The Universal Fibrlok Splice has an insertion loss <.2dB with a fiber retention of >.7.75 lbs. Known for low reflection characteristics of –35dB. Using V groove technology, it requires no epoxy. Uses Fibrlok assembly tool 2501. Splice completed in 30 seconds after preparing fiber ends. Thermal stability of –40˚C TO 80˚C.

2529	*Universal Fibrlok Mechanical Splice*	**$7.95**
2501	*Fibrlok Mechanical Splice Assembly Tool*	**$71.70**
2612	*Multi-Fiber Optical Splice (12 Fiber Ribbon)*	**$48.00**

ULTRAsplice® Mechanical Splice

The ULTRAsplice® is a high performance, easy to install tunable and reusable mechanical splice. One splice accepts any combination of buffer sizes from 250µm to 900µm. Average loss is less than .2dB with fiber retention of over 2 lbs.

US-126	*Singlemode Universal Ultrasplice® Mechanical Splice*	**$7.65**
US-128	*Multimode Universal Ultrasplice® Mechanical Splice*	**$7.65**
FSHLDR	*Ultrasplice® Mechanical Splice Plastic Sleeve Holder for Splice Trays*	**$1.50**
USMOD	*Ultrasplice® Mechanical Splice Installation Holder*	**$0.90**

Isopropyl Alcohol

99% reagent grade isopropyl is issued in cleaning fiber or connector end faces for better transmission performance. Also offered are pre-filled foam swabs and 8 oz. dispensing bottles available in glass or plastic bottles.
NOTE: All alcohol must be shipped by ground only and in regulated quantities. No export!

FOM-IA-4X6	*1 case of 6 (4oz.) alcohol squeeze bottles*	**$14.75**
FOM-IA-1GX4	*1 case of 4 gallons alcohol*	**$80.00**
FOM-IA-24X1	*Alcohol - 24oz. bottle*	**$5.15**
FOM-IA-1GX1	*1 Gallon Bottle of Alcohol*	**$23.00**
FOM-0106	*Bi-furcated alcohol foam swabs (10 packs)*	**$11.08**
FOM-007PL	*Automatic alcohol dispensing bottle (plastic)*	**$4.95**
FOM-007P	*Automatic alcohol dispensing bottle (amber glass)*	**$5.95**
FOM-0068	*1 Case of 6 (4oz.) Bottled Alcohol*	**$16.95**

Kim Wipes

The fiber optic industry demands a lint – free product when used with alcohol for cleaning fiber and connector end faces.

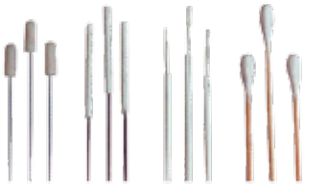
34-155	*Kim Wipes – 1 box – 280 wipes*	**$2.50**
34-155C	*Case of Wipes – 60 Boxes of 280 wipes*	**$140.00**

Lint-Free Polyester Wipes

Each mini-tub contains 90 perforated lint-free wipes, each wipe being 4" x 2" (10 cm x 5 cm). Each wipe can clean up to six fiber optic connectors or one bare fiber. Each mini-tub is approx. 3" in diameter and 3" tall (8 cm x 8 cm).

WFW	*Lint-Free Polyester Wipes*	**$8.00**
MCC-FA1	*CleanWipes (TM) for harsh environments*	**$27.00**

SWABS



Choose from wrapped swabs or general-purpose cotton swabs. The 2.5mm and 1.25mm swabs provide easy entry into bulkheads, mating sleeves and connector end faces to remove contaminants and debris.

FOM-25184	*2.5mm Wrapped Swabs (5pk)*	**$3.50**
FOM-25183	*2.5mm Wrapped Swabs (100pk)*	**$40.00**
FOM-25123	*1.25mm Wrapped Swabs (5pk)*	**$3.50**
FOM-0005	*2.5mm Mini Foam Swabs (50pk)*	**$8.50**
FOM-0006-100	*General Purpose Cotton Swabs 1 Bag (100 Swabs)*	**$2.50**
MCC-S25	*Microcare 2.5mm connector cleaning stick*	**$29.75**
MCC-S12	*Microcare 1.25mm connector cleaning stk.*	**$29.75**
MCC-S16	*Microcare 2.0mm & 1.6mm connector clean.*	**$29.75**
MCC-P25	*Cleaning stick with a recessed nib*	**$29.75**

Fiber Optic Splice & Connector Cleaner

Pump spray bottle of fast-drying, nonflammable, nonhazardous cleaner for all fiber tasks, such as cleaning connectors and cleaning before splicing. 85 grams, approximately 400+ cleanings.

POC03M	*Fiber Optic Splice & Connector Cleaner*	**$15.00**

Optic Prep Tissues

A substitute for alcohol and Kim Wipes, Optic Prep contain a pre-moistened lens-grade tissue in foil wrap for cleaning optical fibers. The mild solvent is non-abrasive and stores easily in a tool kit.

FOM-1003	*Optic Prep Tissue Pack Box (50pk)*	**$23.95**

QbE© Cleaning System

The QbE© offers 200 3" x 3" lint–free wipes per package. Simply pull a wipe over the neoprene platen, which prevents end face scratching, and draw the connector over the wipe in a linear motion. Use as a dry cleaner alone, or as wet cleaner in conjunction with Electro-Wash. When combined with Electro-Wash, each QbE offers upwards of 300 cleanings per box.

QbE	*QbE© Cleaning Lint–Free Wipes*	**$42.82**
FOM-ES810	*Electro-Wash 5oz. Aerosol Can (PX)*	**$10.82**

Electro-Wash® PX, NXO & MX

Electro-Wash® universal cleaners/degreasers are available in a variety of packaging options. They are effective in removing lcky Pic from loose tube cable, as well as cleaning ferrule end faces. The cleaner dries fast and leaves no residue. Electro-Wash PX & NXO are Ground Shipment Only. No Export!

FOM-ES810	*Electro-Wash 5oz. Aerosol Can (PX)*	**$7.35**
FOM-ES1210	*Electro-Wash 12oz. Aerosol Can (PX)*	**$12.95**
FOM-ES110	*Electro-Wash 1 Gallon Bottle (PX)*	**$40.00**
FOM-ES1607	*Electro-Wash 12.5oz. Aerosol Can (NXO)*	**$29.95**
FOM-ES107	*Electro-Wash 1 Gallon Bottle (NXO)*	**$395.00**
FOM-CP421	*Electro-Wash Wipes – 25 wipes per box*	**$32.00**
FOM-TO21	*Electro-Wash Wipes (MX) – 100 wipes per tube*	**$30.95**

Canned Air

Competitively priced and provides a tube that securely fits in nozzle. Removes particles from normally inaccessible areas. Plastic trigger nozzle style from Tech Spray now available.
NOTE: Must be shipped by Ground Shipment only. No Export!

FOM-1008	*Tech Spray Canned Air (10 oz.)*	**$7.00**
MCC-AIR	*Big Blast (TM) Canned Air - 14oz.*	**$11.45**

Fiberoptic.com Fiber Optic Cleaning Cassette

- Connectors cleaned: SC, SC2, FC, ST, DIN, D4, MU, LC, MT
- More than 500 times/cartrige
- Environment Operation Temperature -20 °C to 50 °C

FOM-CT-001	*Fiber Optic Cleaning Cassette*	**$85.00**
FOM-CT-004	*Replacement Reel*	**$25.00**

Optical Couplant

Optical Couplant provides an effective way of reducing Fresnel reflections, and decreasing power loss in connectors and mechanical splices. A liquid gel in a syringe is also available.

FOM-0001V	*Index Matching Gel (.4oz)*	**$25.00**
FOM-9006	*Liquid Matching Gel (6g, Syringe)*	**$14.50**

IBC Cleaning Tools

Designed for SC, ST and FC for UPC & APC polishes

9392	*IBC Cleaner (2.5mm) Cleaning Tool*	**$65.00**
9393	*IBC Cleaner (1.25mm) Cleaning Tool*	**$65.00**

Ferrule Mate™ Cleaner

The FERRULE MATE™ cleaner from Seikoh Giken effectively cleans ferrules in the field or on the production floor. It may be used for PC and APC 1.25mm/2.5mm ferrules for 600 swipes, with a cost as low as 10 cents per cleaning.

SFM-250	*Ferrule Mate™ Cleaner (2.5mm)*	**$65.00**
SFM-125	*Ferrule Mate™ Cleaner (1.25mm)*	**$65.00**

STICKLERS Fiber Optic Cleaning Kit

This convenient kit includes all the cleaning supplies necessary for cleaning 2.5mm and 1.25mm fiber optic connections.

Kit Includes

POC03M	Fiber Optic Splice & Connector Cleaner: (2) cans
WFW	Lint-Free Polyester Wipes: (2) Tubs
MCC-FA1	The Flat Pack CleanWipes (25) packs
MCC-S25	Microcare 2.5mm connector cleaning stick (30) swabs
MCC-S12	Microcare 1.25mm connector cleaning stick (20) swab
	High-intensity, heavy-duty LED inspection flashlight. (1)
	Heavy-duty, weather-resistant, soft-sided polyester bag with a zipper closure. The bag is 9" wide x 5" deep x 5" tall (1)

MCC-FK03	*STICKLERS Fiber Optic Cleaning Kit*	**$98.00**

SqueekyKleen (™) Telcom Cleaner

Cleans and fans fiber in two wipes without alcohol, saving time and money. Hear the difference! No follow-up with alcohol required to get fibers squeaky clean and separated when prepping for splicing. SqueekyKleen™ is less harsh on hands and reduces chemical odors and vapor concentrations to a minimum in splice trailers and vaults. SqueekyKleen's™ unique formulation works to remove pik from the entire surface of loose-tube or ribbon fibers, leaving no residue. SqueekyKleen™ helps keep splice equipment clean of contamination for better fiber alignment and splice quality. Safe on acrylate and Mylar (R).

TC-128	*Gal. SqueekyKleen (TM) Telcom Cleaner*	**$35.00**
TC-35LF	*1-quart (.95 liter) bottle with flip top*	**$11.00**
TC-1	*SqueekyKleen Telcom Cleaner Satur. Wipes*	**$1.65**

CLETOP Cleaning Products

CLETOP and CLETOP-S Cleaning Cassettes and Cleaning Sticks are designed for a high degree of consistency and reliability when cleaning fiber endfaces. CLETOP cleaning products use a specially formulated dry cloth to remove dust, dirt, oil and other contaminants from ferrule surfaces. This cloth can be used without isopropyl alcohol and features anti-static properties to prevent dust from re-attaching to the fiber after cleaning. Cost effective and easy to replace, the cassette reels can be used for up to 400 wipes.

What's The Difference Between CLETOP and CLETOP-S?

CLETOP-S is a recently improved version that features a more-ergonomic design, central push button operation for ambidextrous use and requires no tools when replacing reels. Both the original CLETOP and CLETOP-S provide the same quality and reliability of cleaning!

What's The Difference Between Type A and Type B?

- CLETOP Type A has two slots designed specifically for 2.5mm ferrules (accepts SC, SC2, FC, ST, DIN, D4 connector types).
- CLETOP Type B features open rectangular access to cleaning tape accepting all the connector types as Type A and more: MU, LC, MT, MPO & MT-RJ (without pins), E-2000 and BICONIC.

ORDERING INFORMATION CASSETTES & REELS

14110501	*CLETOP-S Type A Cassette with Blue Tape*	**$93.80**
14110611	*CLETOP-S Type B Cassette with White Tape*	**$93.80**
14110601	*CLETOP-S Type B Cassette with Blue Tape*	**$93.80**
14100610	*CLETOP Type B Cassette with White Tape*	**$107.00**
14100600	*CLETOP Type B Cassette with Blue Tape*	**$107.00**
14100510	*CLETOP Type A Cassette with White Tape*	**$107.00**
14100500	*CLETOP Type A Cassette with Blue Tape*	**$107.00**

ORDERING INFORMATION CLETOP STICKS

FOM-0401-05	*CLETOP Sticks, 1.25mm (5 pack)*	**$4.93**
FOM-0400-05	*CLETOP Sticks, 2.5mm (5 pack)*	**$3.95**
14100401	*CLETOP Sticks, 1.25mm (200 pack)*	**$197.00**
14100400	*CLETOP Sticks, 2.5mm (200 pack)*	**$197.00**

ORDERING INFORMATION REPLACEMENT REELS

14110710	*CLETOP-S Replacement Reel (White Tape)*	**$30.00**
14110700	*CLETOP-S Replacement Reel (Blue Tape)*	**$30.00**
14100710	*CLETOP Woven Film Replacement Reel (White)*	**$30.00**
14100700	*CLETOP Woven Film Replacement Reel (Blue)*	**$30.00**

PRO TK-CLEAN Cleaning Kits

PRO-TK-CLEAN

PRO-TK-CLEAN-01

PRO-TK-CLEAN-02

Cleaning Kits

Item Code	Description	PRO-TK-CLEAN	PRO-TK-CLEAN-01	PRO-TK-CLEAN-02
PRO-BAG-LOGO	9" x 12" Black Nylon Tool Bag w/Kit Logo	X	X	X
HM-C400S	400x Fiber Scope			X
CP410-1	Optic Prep Tissue - 1pkt	X	X	X
PRO-1501E-1	LBC Hollow Point Swab-200pk	X	X	X
PRO-S12	1.25mm Connector Cleaning Sticks-50pk	X	X	X
PRO-0005	2.5mm Mini Foam Swabs-50pk	X	X	X
PRO-CP421-1	Electro-Wash Wipe (MX)-1pkt	X	X	X
PRO-CT-001	Fiber Optic Cleaning Cassette	X	X	X
PRO-CT-004	Cleaning Cassette Replacement Reel	X	X	X
9392	IBC Cleaner (2.5mm) Cleaning Tool		X	X
9393	IBC Cleaner (1.25mm) Cleaning Tool		X	X
PRO-TC1	SqueekyKleen Telcom Cleaning Satur. Wipes			X

PRO-TK-CLEAN	*Basic Fiber Optic Cleaning Kit*	**$215.00**
PRO-TK-CLEAN-01	*Deluxe Fiber Optic Cleaning Kit*	**$379.00**
PRO-TK-CLEAN-02	*Deluxe Fiber Optic Cleaning Kit w/ 400x Scope*	**$635.00**

PRO Quick-Click™

The PRO brand Quick-Click™ cleaning tool is designed to easily remove dirt and contaminants from both fiber optic connectors in bulkheads and unmated fiber optic connectors. The Quick-Click™ will save you time and money by cleaning both sides of a mated pair with one tool, without having to disconnect both fibers.

Designed for SC, ST and FC for UPC & APC polishes

CS-250	*PRO Quick Click (2.5mm) Cleaning Tool*	**$64.00**
CS-125	*PRO Quick Click (1.25mm) Cleaning Tool*	**$64.00**

STRIPPERS

NO-NIK® Fiber Optic Strippers

22 different NO-NIK tools in sizes ranging from 102 to 1,372 microns. Accurate to –0mm, + .0127mm. Exclusive centering device positions fiber for precise scoring and removal of buffer coating. Cutting blades made from razor quality steel score the buffer completely. Color-coded, cushion-grip handles for quick identification. Plastic heads, which make contact only with the buffer, center and support your work on both sides. Back-up blades support the cutting blades, nest positively, and "lock up" when the tool is closed to maintain perfect concentricity. Buffer being removed acts as guide and protection for the fiber. Stripping blade diameter clearly marked on plastic handle. Arrow indicates direction pressure should be applied when stripping on head.

PART #	HANDLE COLOR	MINIMUM STRIPPING BLADE DIAMETER (mm)	PRICE
NN102	*Navy*	*102mm (.004 in)*	**$37.01**
NN127	*Silver*	*127mm (.005 in)*	**$37.01**
NN152	*Gold*	*152mm (.006 in)*	**$38.12**
NN175	*Mustard*	*175mm (.007 in)*	**$38.12**
NN203	*Red*	*203mm (.008 in)*	**$34.73**
NN254	*Lt. Blue*	*254mm (.010 in)*	**$34.73**
NN305	*White*	*300mm (.012)*	**$34.73**
NN1118 (For Plastic Fiber)	*Brown*	*1.118mm (.044 in)*	**$29.63**
NN1372 (For Plastic Fiber)	*Clear*	*1.372mm (.054)*	**$30.00**

NO-NIK® Fiber Optic Stripping Kits

This sturdy No-Nik Fiber Optic Stripper Kit is available with the most popular sizes, 203 microns (Red Handles), 254 microns (Light Blue Handles) and 305 microns (White Handles). The vinyl case protects these precision tools and provides convenient safe storage.

NN03	*Fiber Optic Stripper Kit, 4" x 6-1/4" (102mm x 159mm)*	**$123.45**

- NO-NIK Fiber Stripper - available the following minimum cutting diameters: 152, 175, 203, 254 & 305 microns.
- 86 1/2SF High Leverage Kevlar Shear - perfect solution for trimming back the DuPont Kevlar
- 821 Multi-Wire Stripper/Cutter - The 821 removes the outside jacket from fiber optic cable.
- A vinyl case protects the tools and provides convenient safe storage.

NN152KIT	*152 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm)*	**$87.41**
NN175KIT	*175 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm)*	**$90.03**
NN203KIT	*203 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm)*	**$88.76**
NN254KIT	*254 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm)*	**$88.76**
NN305KIT	*305 micron Stripping Kits, 4" x 6-1/4" (102mm x 159mm)*	**$88.76**

CLAUSS CFS-2 Fiber Striper

For stripping 250 micron buffer coating to expose 125 micron cladded fiber. 1mm diameter stripping hole at tip of tool can be used to strip the fiber jacket. 140µm diameter hole and V-opening in blade allows removal of 250 micron buffer coating from 125µm fiber. Pre-set at the factory - no adjustments needed. Will not scratch or nick glass fiber. All stripping surfaces are manufactured to precise tolerances to assure clean, smooth strips. Comfort-grip, ergonomic handles lock to hold tool closed when it is not in use.

CFS-2	*Dual Hole Fiber Stripper, 125µm, 2-3mm Jackets*	**$23.73**

MILLER Fiber Strippers

For stripping 250 micron buffer coating from 125 micron optical fiber. Precision diameter hole and V-opening in blade allow for accurate buffer coating removal. Factory set, requires no adjustments. Prevents scratching or nicking of optical fiber. All cutting surfaces are precision formed, hardened, tempered and ground assuring precise buffer removal.

PART #	CLADDING	DIAMETER	PRICE
FO 103-S	*125µm*	*.005 in*	**$42.56**
FO 103-S-100	*80-100µm*	*.003-.004 in*	**$67.80**
FO 103-S-140	*140µm*	*.0055 in*	**$67.80**
FO 103-S-150	*150µm*	*.006 in*	**$67.80**
FO 103-S-162	*162µm*	*.0065 in*	**$67.80**
FO 103-S-175	*175µm*	*.007 in*	**$67.80**
FO 103-S-187.5	*187.5µm*	*.0075 in*	**$67.80**
FO 103-S-200	*200µm*	*.008 in*	**$67.80**
FO 103-S-225	*225µm*	*.009 in*	**$67.80**
FO 103-S-250	*250µm*	*.010 in*	**$67.80**
FO 103-S-280	*275-280µm*	*.011 in*	**$67.80**
FO 103-S-300	*300µm*	*.012 in*	**$67.80**
FO 103-S-525	*525µm*	*.021 in*	**$67.80**

MILLER Dual-Hole Fiber Strippers

FO-103-D-J

New Dual Hole models offer the same quality of the standard FO 103-S fiber tool coupled with a second hole. Second hole is for stripping 2-3mm fiber jackets and standard 125 fiber stripping (250 micron removal to 125 micron).

FO-103-D-J	*Dual Hole Fiber Stripper, 125µm, 2-3mm*	**$47.39**

FO-103-D-250

Second hole is for stripping 900 micron tight buffer down to 250 micron buffer coating and standard 125 micron fiber stripping (250 micron removal to 125 micron) – allows longer stripping lengths without damaging the fiber. Easy-to-read stripping diagrams imprinted on handles.

FO-103-D-250	*Dual Hole Fiber Stripper, 125µm & 250µm*	**$70.39**

MILLER Tri-Hole Fiber Strippers

New three-hole model performs all common fiber stripping functions in one compact tool.

- Hole for removal of 2 to 3mm fiber jackets
- Removes 900 tight buffer to 250 micron buffer coating
- Standard 250 to 125 micron stripping

FO-103-T-250-J	*Tri-Hole Fiber Stripper, 125µm, 250µm, 2-3mm*	**$75.22**
FO-103-T-400-250	*Tri-Hole Fiber Stripper, 250µm & 400µm*	**$73.03**

JONARD Fiber Stripper 3 Hole

Three hole Fiber Optic Stripper model performs all common fiber stripping functions. This Fiber Optic Stripper strips the 1.6-3 mm fiber jacket down to the 600-900 micron buffer coating. The second hole strips the 600-900 micron buffer coating down to the 250 micron coating and the third hole is used to strip the 250 micron cable down to the glass fiber without nicks or scratches.

JIC-375	*Fiber Optic Stripper Three Hole*	**$22.90**

PALADIN Stripper

The new multi-function fiber optic stripper from Paladin has five settings for fiber optic cable. Strips outer jacket from 2.0-2.4mm fiber, and 2.0-3.0mm loose tube buffer tubes. Strips 900µm buffer from loose buffer without removing acrylate coating. Strips buffer and acrylate from 900/125µm and 250/125µm fiber. Factory set and calibrated.

FOM-1163	*Paladin FiberOptic™ - Five Setting Fiber Stripper*	**$49.95**

IMPERIAL Strippers

With Ergonomic, non-slip comfort grip handles, this "two-in-one" tool is an industry standard manufactured in the USA.

IFO-1200	*Duplex Cable Jacket Stripper*	**$36.21**
IFO-1212	*Ribbon Fiber Jacket Stripper*	**$39.78**
IFO-1300	*300mm Jacket and 900/250µm Buffer Stripper*	**$26.62**
IFO-1500	*Duplex Zipcord Buffer Stripper*	**$38.76**
IFO-1520	*"OSP" Fiber Buffer Stripper*	**$32.13**

AFL De-Ribbonizer

The FST-12 Fiber Separation Tool is used to quickly, accurately and reliably split ribbons into sub-groups or individual fibers. The ergonomic FST-12 design enables safe and reliable, one-handed operation for use in diverse fiber deployment environments, such as aerial and remote-site applications.

S014012	*AFL De-Ribbonizer*	**$1,146.08**

FITEL De-Ribbonizer

The S220A uses two finely positioned blades to shaves the matrix off the top and bottom of ribbon fiber while leaving the individual fiber jackets untouched. After the matrix is removed, the fibers separate out easily by hand. For use with 300 and 400µm ribbons of 2 to 12 strands. Blade life is 1,000 separations.

S220A	*Fitel De-Ribbonizer*	**$670.00**

SUMITOMO De-Ribbonizer

Sumitomo's FTA-2 is used for ribbonizing single fibers over a short length and for allowing multiple single fibers to be spliced simultaneously on a ribbon splicer.

FTA-2	*Sumitomo De-Ribbonizer*	**$795.00**

JONARD Ergonomic Fiber Stripper

Used for stripping the 250 micron coating from the 125 micron optical fiber. Preset at the factory so no adjustments are necessary, this unique Ergonomic design prevents nicks or scratches on the optical fiber. The stripping blades are ground and hardened for durability and long life. Yellow plastic formed handles, tool is 6" long

JIC-175	*Ergonomic Fiber Optic Stripper*	**$22.10**

JONARD FIBER STRIPPER & SCISSOR KIT

Kit includes the JIC-375 Fiber Optic Stripper, ES-1964 Electrician's Scissor, and convenient molded plastic pouch(with belt loop).

TK-375	*FIBER STRIPPER & SCISSOR KIT*	**$41.25**

MICRO STRIP Tool Kit

The Micro Strip Tool Kit provides precision fiber tools with interchangeable/replaceable blades and tube guides. They provide excellent removal of both the buffer and jacket of fiber optic cable without nicking or damaging the fiber.

MS-FOK1	*Micro Strip Tool Kit (3 blades for 125, 140, 230µm)*	**$135.00**
MS-1FS	*Blade Holder*	**$12.75**
MS-1RB06S	*Replacement Blade-Violet (Strips to 125µm)*	**$35.00**
MS-1RB12S	*Replacement Blade-White (Strips to 250µm)*	**$35.00**
MS-1RB21S	*Replacement Blade-Royal (Strips to 500µm)*	**$35.00**

FITEL S210 Stripper

The S210 Single Fiber Stripper is designed to strip 250µm and 900µm diameter fiber. S210 stripper features a 20mm wide base with the blade located in the center to ensure safe longitudinal stripping.

S210	*Fitel Single Fiber Stripper*	**$115.00**

FITEL Ribbon Splitter

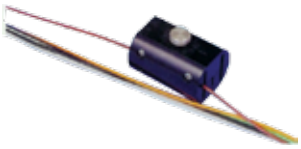
The FITEL S233 Ribbon Splitter splits 4, 8, and 12-fiber ribbons quickly and accurately. The unit features a compact design for field use and an all-metal body for maximum durability. Accommodates interchangeable fiber guides for different ribbon sizes and no tools are required to change fiber guides.

S233A	*Fitel Ribbon Splitter 4 Fiber Ribbon*	**$865.00**
S233B	*Fitel Ribbon Splitter 8 Fiber Ribbon*	**$865.00**
S233C	*Fitel Ribbon Splitter 12 Fiber Ribbon*	**$960.00**

CABLE CUTTERS & STRIPPERS

CORNING Mid-Access Tool

The Corning Cable System Mid-Access Tool allows for mid-entry access in 2.4 to 3mm buffer tubes. Also available is a tool for 5 to 24mm buffer tubes.



OFT-000	*Corning Cable System Mid-Access Tool for 2.4mm - 3.0mm Tubes*	**$235.00**
OFT-001	*Replacement Blade for OFT-000*	**$17.50**
UAT3-000	*Corning Cable System Mid-Access Tool For 5.0mm - 24mm Tubes*	**$660.00**
UAT3-BLADES	*Replacement Blade for UAT-3000*	**$35.00**

MILLER MSAT: Mid-Span Access Tool

Quickly and easily access fibers in 2, 2.5 and 3mm buffer tubes in a mid-span location without fiber damage. All blades precisely factory mounted in tube slitting channels with no adjustment required by the installer. Tool design incorporates buffer tube size gages on the tool body for ease of selecting proper tube slitting channel. Convenient spring loaded lever opens and closes the tool and lever becomes flush with the top of the tool body when closed. For use with the following diameter buffer tubes: 2.0mm 1.8-2.2 mm (0.071"- 0.086") 2.5mm 2.3-2.8 mm (0.090"-0.110") 3.0mm 2.8-3.2 mm (0.110"- 0.126"). Made in the U.S.A.

80785	*MSAT: Mid-Span Access Tool*	**$224.50**

ACS Armored Cable Slitter

The ACS Tool is designed to work on jacketed and armored multi-fiber cable. Its main purpose is to gain midspan access to fiber optic conductors by slitting the outer jacket and armor on cables. The tool is designed with a precision adjustable blade to avoid damage to the fibers. The tool works on a cable diameter range of 5/16" - 1-1/8" (8mm - 28.6mm). The blade can be set up to .215"(5.5mm) deep.

ACS	*Armored Cable Slitter*	**$127.20**
CB-251K	*Replacement Blade Assembly*	**$36.83**

SMART-STRIP Cable Stripper

Versatile and compact tool suitable for all types of standard insulation. Produces an accurate cutting depth to any standard insulated size of wire or cable in the 0.75 – 10mm (0.03 to 0.39 inch) range. Strips UTP and STP data network cable.

SMART-STRIP	*Data Cable Stripper*	**$19.75**

JONARD CST-1900: ROUND CABLE STRIPPER

The CST-1900 is designed for fast and precise jacket removal of PVC, rubber, PE and other jacket materials, and works well on round cables with diameters ranging from 3/16" to 1-1/8" (4.5 - 29 mm).This is a Triple Action Tool, cutting longitudinally for end stripping, spiral for end stripping and mid-span cuts, and circular for jacket removal

CST-1900	*CST-1900: ROUND CABLE STRIPPER*	**$47.90**

MILLER Round Cable Strippers

These two tools were designed for fast, safe and precise jacket removal of PE, PVC, rubber, and other jackets. RCS-114 for smaller diameter cables: 0.178 to 1.14 inches (4.5 – 29mm). RCS-158 for larger diameter cables: 0.75 to 1.58 inches (19 – 40mm). "Tri-Action Strip" capability. Rotary cut to a longitudinal cut along the cable length for end stripping. Spiral cut for mid-span stripping. Spiral cutting features provide easier removal of tougher jackets. Spring-loaded cable brace firmly secures cable to the blade for controlled cutting action. Blade depth can be regulated by simply turning the blade housing.

RCS-114
RCS-158

RCS-114	*138mm (5.43 in), Round Cable Stripper*	**$43.43**
RCS-158	*153mm (6.02 in) , Round Cable Stripper*	**$65.78**
CB-231	*Replacement Blade*	**$9.19**

Cable stripper for outer jackets and insulations from 0.18 to 1.12 inches (4.5 to 28.5mm) O.D. Stripping action is both circumferential, then longitudinal for removal of insulation section at the end or mid span of wires. Adjustable depth up to 0.12 inch (3mm) cutting depth. Chisel point blade for harder coverings is standard; spherical blade design for softer insulation is optional. Handy spring-loaded ripping blade at base of tool to facilitate insulation removal. Solid construction for rugged applications.

MK02

MK02	*Round Cable Jacket Stripper with Hook Blade*	**$24.68**
MK02	*Spherical Cutting Replacement Blades (set of 5)*	**$21.88**
39392	*Replacement Chisel Point Blades (set of 5)*	**$20.48**

CABLEMATIC Drop Cable Cutters

Designed to cut and strip solid and stranded cooper and aluminum conductor. Precision, high quality carbon steels construction. Preformed rounded jaws automatically position the cable for optimum cutting. Designed to minimize flattening of the cable end.

CC22	*Cable Cutter, up to .350 in. (8.89mm)*	**$21.56**
CC38	*Cable Cutter, up to .430 in. (10.92mm)*	**$30.65**
CC60	*Cable Cutter, up to .510 in. (12.95mm)*	**$38.47**

JONARD High Leverage Cutters

High leverage design for superior cutting ability. Crafted for heavy-duty wire cutting and made of specially forged alloy steel designed for strength and cutting ability

JIC-63050

JIC-63050	*High Leverage Cable Cutters*	**$16.50**
JIC-683	*Lineman's B Side Cut Pliers*	**$16.95**
JIC-2288	*High Leverage Diagonal Cutter*	**$16.50**

KEVLAR® Shears

FOKC Designed to cut Kevlar® strength members in fiber optic cables.

861/25F High-leverage tool for cutting, trimming and slicing through fibers and other tough industrial and electronics materials.

KC699 Soft, cushioned oversized bows for operator comfort. Blades are hardened stainless steel with a fine serration on one blade to grip Kevlar fibers and prevent slipping while cutting.

KS-1 Lightweight shears ideal for cutting Kevlar strength members found in fiber optic cable construction.

FOKC | 861/25F | KC699 | KS-1 | JIC-186

ORDERING INFORMATION

FOKC	*Fiber Optic Kevlar® Cutter*	**$25.54**
861/2SF	*Electrical Shears - Serrated with Grips*	**$23.03**
KC699	*Kevlar® Shears. Length 184mm (7.25")*	**$13.11**
KS-1	*Kevlar® Shears. Length 140mm (5.5")*	**$12.92**
JIC-186	*Kevlar Shears - Serrated w/Grips (6")*	**$11.60**

JONARD Cable Splicing Knife

Features a non-slip easy grip ergonomic handle made from TPR (thermoplastic rubber) for better control and reduced hand fatigue. Blade length is 1¾" and overall length is 6¼"

KN-7	*Ergonomic Cable Splicing Knife*	**$7.25**

SPLICER'S KNIFE CK6

Tough, coping-style blade. Forged steel. Full-size, High-dielectric, Red-cushioned handle.

CK6	*6-1/4" Cable Splicer's Knife*	**$9.42**

TWEEZERS

AA-SA | 4SA | 4C | 5SA | 7SA | 7C | 231 | 226

ORDERING INFORMATION

AA-SA	Strong fine tip, Stainless steel tweezers, 4 7/8"/ 124mm	**$10.68**
4SA	Extra fine tip, Stainless steel tweezers, 4 7/8"/ 124mm	**$12.15**
4C	Extra fine tip, Chrome-plated carbon steel tweezers, 4 1/4"/ 108mm	**$11.72**
5-SA	Needle sharp tips, Stainless steel tweezers, 4 1/4"/ 108mm	**$14.02**
7-SA	Extra fine curve tips, Stainless steel tweezers, 4 1/2"/ 114mm	**$14.02**
7-C	Extra fine curve tips, Chrome-plated carbon steel tweezers, 4 1/2"/ 114mm	**$12.67**
231	Serrated inside tips, Stainless steel tweezers, 4 3/4"/ 121mm	**$10.80**
226	Serrated inside tips, Chrome-plated carbon steel tweezers, 4 3/4"/ 121mm	**$10.78**

JONARD Scissors

ES-1964ERG Can cut 12 AWG stranded, 16 AWG solid. With a broader unique ergonomically designed comfort handle offering greater cutting leverage.

ES-1964 Notched to strip 19 and 23 AWG wire and one blade is serrated. A scraper and file are on the back of the blade. Holds edge even when used on fiber and kevlar based cables

ES-1964ERG

ES-1964

ORDERING INFORMATION

ES-1964ERG	*Ergonomic Electrician Scissors*	**$11.25**
ES-1964	*ELECTRICIAN'S SCISSORS*	**$9.60**

JONARD Three Piece Splicer's Kit

This compact kit contains a special purpose ergonomic cable splicer's knife, scissor and leather pouch. The knife features a short 1 3/4" tough, cutlery-steel blade and a non-slip handle. The scissors are made of high carbon steel with scraper and file on one sides plus 2 stripping notches.. Both items fit securely in the leather pouch which can be mounted on belts up to 2" wide.

TK-400	*Three Piece Splicer's Kit*	**$26.25**

Scribes

CS-30-DE

CS-30-DE	*Double Edge Carbide Scribe*	**$46.16**
CS-30-DE-R	*Double Edge Carbide Replacement Blade*	**$39.22**
45-358	*Sapphire DualScribe™ Fiber Optic Scribe*	**$28.28**
CS-30-W	30° Wedge-Carbide Tip	**$36.69**
DS-60-C	*60° Cone Angle-Diamond Tip Retractable*	**$38.37**
DS-90-W	*90° Wedge Angle-Diamond Tip Retractable*	**$78.06**

JONARD 5 Piece Telecom Installers Kit

Kit includes the M-216C/EX Can Wrench, KN-7 Ergonomic Cable Splicing Knife, ES-1964 Electrician's Scissor, JIC-22035 Probe Pick and the H-50 Pouch (made of durable PVC material with metal clip).

TK-50	*Five Piece Telecom Installers Kit*	**$41.25**

JONARD Magnetic Cable Retrieval System

A magnetic cable retrieval system which couples the cable with the pulling device through drywall, allowing the user complete control. Designed for both residential and commercial applications.

MP-700	*Magnetic Cable Retrieval System*	**$138.40**

JONARD Hollow Shaft Nut Drivers

These are full length hollow shaft nut drivers intended for working with long bolts. They are designed with cushion gripped ergonomic color coded handles. Handles provide greater torque and user comfort. Overall length 7"

ND-631	*Hollow Shaft Nut Drivers*	**$42.90**

JONARD Magnamole Magnetic Cable Guide

Quickly threads wire and cable through cavity walls and void spaces. Threads at an angle and safely through other wire and cable obstacles. Saves time, saves money, and sharply reduces the risk of accidents.

MM-800	*Magnamole Magnetic Cable Guide*	**$33.25**
MM-110	*Magnamole Replacement Magnets* (Red) .169" to .205" (Blue) .230" to .295"	**$14.85**
MM-120	*Magnamole Replacement Magnets* (White) .145" to .169" (Gray) .173" to .201" (Black).205" to .232"	**$14.85**

JONARD 7 Piece Insulated Screwdriver Set

7 Piece: 3 Phillips and 4 Slotted screwdrivers

11Piece: 3 Phillips, 4 Slotted, Linemans Plier, Long Nose Plier, Diagonal Plier, Wire Stripper

TK-70INS	*7 Piece Insulated Screwdriver Set*	**$32.90**
TK-110INS	*11 Piece Insulated Tool Kit*	**$105.85**

JONARD FIBER OPTIC CRIMPER WITH DIE

This fully ratcheted crimper offers exceptional performance. Designed for minimal closing force (higher crimp force produced with lower hand force), plus there is no break-over hand force making the last click easily achievable. The head is angled to lessen the need to bend the wrist awkwardly, die changes are made quickly and easily, ergonomic handles are dual component with a soft rubber insert plus the tool includes a built in safety release mechanism. Very durable steel housing accommodates both Fiber Optic and Coax dies.

Crimps FC, ST, SC, LC, SMA, and MT-RJ Connectors .151"/.178"/.134"/.139"/.190", 3.84mm/4.52mm/3.40mm/3.53mm 4.83mm

UC-8039	*FIBER OPTIC CRIMPER WITH DIE*	**$57.30**

CORNING UniCam® Connectors & Kits

Corning Cable Systems offers several tool kits for installation of UniCam Connectors. The flagship tool kit is the UniCam Pretium™ Tool Kit (**TKT-UNICAM-PFC**), a thoughtfully designed tool kit that virtually eliminates human variability from installation. The **TKT-UNICAM-PFC** includes a lightweight, handheld installation tool with an immediate go/no-go feedback signal, providing unmistakable confirmation of a successful termination. The kit's high-performance cleaver has an integrated fiber scrap bin and a dual-clamp precision hold for the field fiber, with a diamond blade to achieve a superior cleave. The UniCam Pretium Tool Kit can be used with multimode or single-mode LC, SC and ST® Compatible UniCam Connectors (standard and Pretium-performance), and is required to achieve Pretium-performance specifications for UniCam Pretium-Performance Single-Mode Connectors.

TKT-UNICAM-PFC Kit Includes

FBC-015	Pretium Fact Cleaver w/ Diamond Blade and Built-In Fiber Scrap Container
TL-UCP	UniCam Pretium™ Installation Tool with Integrated CTS
100294-01	5" Electrician's Scissors with Notches
3201007-01	Crimp Tool
3206001-01	6" Wire Fiber Stripper
2104498-01	Plastic Refuse Container
2014493-01	Package of Corning Wipes
In Kit Only	Retractable Permanent Marker
2014494-01	Bottle of Corning Fiber Cleaning Fluid
VFL-A125	LC 1.25 mm Ferrule Adapter
VFL-A250	SC and ST® Compatible 2.5 mm Ferrule Adapter
2104417-01	1.5 mm Ferrule Cleaning Sticks (10/pack)
2104255-01	SC and ST Compatible 2.5 mm Ferrule Cleaning Sticks (10/pack)
2104502-01	"Dual-Hole" Miller Tool Fiber Stripper (for 900 µm and 250µm fiber)
02-001860-001	Unicam Pretium Tool Bag with Integrated Waste Receptacle and Organized Foam Insert Interior

TKT-UNICAM Kit Includes

TL-UC01	UniCam® Connector Elite Installation Tool
3201007-01	UniCam® Connector Crimp Tool
325004-01	Fiber Stripper, Clauss
3205007-01	No-Nik Stripper
3206001-01	Jacket Stripper
FBC-01	Score and Snap Fiber Cleaver
100294-01	Electrician's Scissors
100297-01	Number Marker
100312-01	Tweezers
2104047-01	Electrician' Tape
1508001-01	Alcohol Wipes
FOM-9104	Permanent Marker
2104282-01	Strip Gauge
2104060-01	Loctite® 411 Adhesive
SPR-006-150	Instructions, UniCam® Connector

The standard UniCam Connector Installation Tool Kit (**TKT-UNICAM**) is a basic installation tool kit and can be used to terminate all single- and 2-fiber UniCam Connector styles (SC, LC, ST compatible , FC and MT-RJ connectors). UniCam Pretium-Performance Multimode Connectors (SC, LC and ST compatible) can achieve Pretium-performance with the use of this tool.

The UniCam Connector Installation Tool Kit with Continuity Test Set (**TKT-UNICAM-CTS**) provides a visual feedback feature when terminating UniCam SC, LC, ST Compatible or MT-RJ Connectors. Useful for reducing scrap rates or for training new installers, the **TKT-UNICAM-CTS** is very popular, since the installer can watch for the red glow in the back of the connector to dim or disappear. This indicates that thefield fiber is inserted properly in the connector.

TKT-UNICAM-CTS Kit Includes

TEST-UNICAM-CTS	UniCam Continuity Test System (CTS)
VFL-350	Visual Fault Locator
TKT-UNICAM	Entire contents of TKT-UNICAM Standard Installation Kit

ORDERING INFORMATION CONNECTORS

PART NUMBER	STYLE	TYPE	FERRULE	FIBER SIZE	PRICE
95-000-50	*ST*	*MM*	*Composite*	*62.5/125µm*	**$11.25**
95-050-51	*ST*	*MM*	*Zirconia*	*50/125µm*	**$12.25**
95-000-51	*ST*	*MM*	*Zirconia*	*62.5/125µm*	**$13.65**
95-200-51	*ST*	*SM*	*Zirconia*	*8.3/125µm*	**$16.45**
95-000-41	*SC*	*MM*	*Zirconia*	*62.5/125µm*	**$12.50**
95-200-41	*SC*	*SM*	*Zirconia*	*8.3/125µm*	**$16.45**
95-000-40	*SC*	*MM*	*Composite*	*62.5/125µm*	**$11.65**
95-050-41	*SC*	*MM*	*Zirconia*	*50/125µm*	**$12.65**
95-000-61	*FC*	*MM*	*Zirconia*	*62.5/125µm*	**$11.65**
95-200-61	*FC*	*SM*	*Zirconia*	*8.3/125µm*	**$16.45**
92-001-97-P	*MT-RJ*	*MM*	*Composite*	*62.5/125µm*	**$11.65**
95-000-99	*LC*	*MM*	*Zirconia*	*62.5/125µm*	**$12.85**
95-050-99	*LC*	*MM*	*Zirconia*	*50/125µm*	**$16.95**
95-050-99	*LC*	*SM*	*Zirconia*	*8.3/125µm*	**$18.95**

CORNING
Discovering Beyond Imagination

ORDERING INFORMATION CONNECTOR KITS

TKT-UNICAM-PFC	*UniCam® Pretium™ Tool Kit*	**$1,725.00**
TKT-UNICAM-CTS	*UniCam® Connector Installation Tool Kit with Continuity Test Set*	**$1,995.95**
TKT-UNICAM	*Standard UniCam Connector Installation Tool kit*	**$725.15**

OPTIONAL ACCESSORIES AND SUPPLIES

TL-UCP	*UniCam® Pretium™ Installation Tool*	**$1,679.95**
TEST-UNICAM-CTS	*Converts existing TKT-UNICAM to include CTS option*	**$425.00**
TEST-UNICAM-CTS-SF	*Converts TKT-UNICAM to include CTS option for Single Fiber*	**$359.95**
VFL-AKIT	*UniCam® LC (1.25mm), SC & ST (2.50mm) VFL ferrule adapters*	**$101.31**

QUICK TERMINATION CONNECTORS

AFL Fast Connectors

AFL's new FAST connectors are pre-polished, field installable connectors that eliminate the need for hand polishing in the field. Feature pre-stubbed factory polished ferrule that couples to the fiber being terminated by precision mechanical alignment and insures low loss with a proprietary gel. Each FAST connector comes with a factory-installed wedge clip that holds the clamping device open while a fiber is inserted. Once fiber is in place, the wedge clip is removed and discarded. Fiber is terminated and ready to be plugged in. The FAST tool kit provides all necessary tools for fiber preparation, two available cleavers: 92208-TB (for multimode connectors) and CT-30A (for singlemode connectors).

Features

- Pre-stubbed, factory-polished ferrule
- No epoxy required
- Precision mechanical alignment insures low loss
- Fiber can be reseated
- 3.0mm, 2.0mm, and 900µm boot provided with each connector
- VFI can be used to confirm fiber is installed properly
- Meets TIA/EIA 568A performance requirements
- Meets TIA/EIA 604 (focis) connector interface requirements

CS001201	*SM/MM FAST Tool Kit w/ CT-30A Cleaver*	**$1,464.69**

ORDERING INFORMATION CONNECTORS* & KITS

PART NUMBER	FIBER TYPE	COLOR	CABLE SIZE	PRICE
FAST™ SC Connector (packaged 12 per bag)				
CS007611-12	*MM 50/125*	*Black*	*3.0mm, 2.0mm, 900µm, 250µm*	**$105.60**
CS007610-12	*MM 62.5/125*	*Beige*	*3.0mm, 2.0mm, 900µm, 250µm*	**$105.60**
CS007609-12	*SM*	*Blue*	*3.0mm, 2.0mm, 900µm, 250µm*	**$133.50**
CS007612-12	*MM 50/125 OM3 (10 gig)*	*Aqua*	*3.0mm, 2.0mm, 900µm, 250µm*	**$**
FAST™ ST Connector (packaged 12 per bag)				
CS000828-12	*MM 50/125*	*Black*	*900µm, 250µm*	**$**
CS000829-12	*MM 62.5/125*	*Beige*	*900µm, 250µm*	**$101.25**
CS000830-12	*SM*	*Blue*	*900µm, 250µm*	**$126.60**
CS002478-12	*MM 50/125 OM3 (10 gig)*	*Aqua*	*900µm, 250µm*	**$160.50**
FAST™ LC Connector (packaged 12 per bag)				
CS007615-12	*MM 50/125*	*Black*	*3.0mm, 2.0mm, 900µm, 250µm*	**$116.70**
CS007614-12	*MM 62.5/125*	*Beige*	*3.0mm, 2.0mm, 900µm, 250µm*	**$116.70**
CS007613-12	*SM*	*Blue*	*3.0mm, 2.0mm, 900µm, 250µm*	**$173.40**
CS007616 -12	*MM 50/125 OM3 (10 gig)*	*Aqua*	*3.0mm, 2.0mm, 900µm, 250µm*	**$122.55**
VISUAL FAULT IDENTIFIERS				
VFI2-00-0900	AFL Noyes VFI 2			**$397.00**
VFI3-00-0900	AFL Noyes HiLite			**$279.00**
2900-50-0010MR	1.25mm Universal Adapter			**$50.00**

FAST™ Connector Universal Tool Kit

The FAST Connector Universal Tool Kit provides all the necessary installation tools requiredfor fiber preparation of 250µm or 900µm fibers, or 900µm, 2mm, or 3mm cordage forAFL's pre-polished FAST connectors. Included in the kit is the CT-30A universal multimode/single-mode cleaver, AFL's premier cleaver with a 16-position blade and built-in fiber scrapcollector. The FAST Connector Universal Tool Kit carrying case contains all the industrystandard termination tools required for fiber preparation, as well as, adequate storage forcarrying extra FAST connectors for on-site convenience.

Features

- Industry standard fiber preparation tools
- Compact design, flexible yet rugged case
- Complete instructions provided

Applications

- Premise environments
- LAN Fiber to the Desk environments
- Patch panel/wiring closets
- FTTX applications
- Quick repair/replacement areas

FAST™ Connector Universal Tool Kit ——— CS001201			
S014080	CT-30A Universal Cleaver	**FPF1-00-0900**	Fiber Preperation Fluid
CS007780	FAST SC Assembly Tool	**FM000413**	Lint-free Cloth Wipes
CS007779	FAST LC Assembly Tool	**C015830**	Marker Pen
S014704	3mm Cable Clamp	**CS007701**	Installation Instructions
S014705	2mm Cable Clamp	**CS001203**	Strip Length Template
CS004442	0.25/0.9mm Cable Clamp	**CS001204**	Assembly Video (CD)
CS001205	Fiber Stripper	**CS001202**	Carrying Case
C095257	Kevlar Scissors		

TYCO/AMP Light Crimp™ Plus

AMP LightCrimp Plus ST, SC, LC and MT-RJ connectors provide easy and quick fiber terminations. There is no epoxy curing or polishing required.

All connectors feature a Zirconia ferrule and a typical loss of 0.3dB.

ORDERING INFORMATION CONNECTORS

PART NUMBER	STYLE	TYPE	PRICE
492642-1	ST Simplex	Multimode, 62.5µm	$8.65
492643-1	SC Simplex	Multimode, 62.5µm	$9.35
1278082-1	ST Simplex	Multimode, 50µm	$8.65
1278079-1	SC Simplex	Multimode, 50µm	$9.35
1754483-1	LC Simplex	Multimode, 62.5µm	$11.35
1754483-2	LC Simplex	Multimode, 50µm	$11.35
1754482-1	LC Simplex	Singlemode, 9/125µm	$17.50
1754485-1	LC Duplex	Multimode, 62.5µm	$22.75

LightCrimp™ Tool Kit Includes

58535-1	Pro-Crimper Hand Tool
492783-1	LightCrimp Plus SC Die Set
492622-1	LightCrimp Plus ST Die Set
FOM-0021	Buffer Stripper Tube
45-352	Fiber Stripper
FOM-9809	Kevlar Cutters
1278023-1	SC Cable Holder
49703-1	ST Cable Holder
FOM-6000	Cleave Tool
	LightCrimp Video

ORDERING INFORMATION KITS & SUPPLIES

1278118-4	ST, SC, MTRJ and LC LightCrimp Tool Kit	$1,480.31
1754847-1	LC LightCrimp Plus Upgrade Kit	$130.00

OPTIONAL ACCESSORIES AND SUPPLIES

492703-1	Cable Holder/Template ST Style	$7.85	492782-1	SC LightCrimp Plus Crimp Tool	$396.00
1278023-1	Cable Holder/Template SC Style	$8.85	49263-1	ST LightCrimp Plus Crimp Tool	$305.00
FOM-6000	Fiber Optic Cleaver	$139.00	1754137-1	LC LightCrimp Plus Crimp Tool	$375.00

3M™ CrimpLok™

CrimpLok connectors combine the speed of non-adhesive connectors with the performance characteristics of epoxy and Hot Melt Connectors. CrimpLoks are the ideal solution when there is no power source or for working in tight workspaces

CrimpLok™ Tool Kit Includes

6955-C	Crimp Tool	355-A	View Scope, 100X
6955-P	Polish Tool	6955-S	Buffer Stripper
SP-00503	Lapping Film, One step, CrimpLok - 50	05-00002	Cable Stripper
80611013121	Lapping Film, Final SM, CrimpLok - 50	05-000017	Link Free Cloths (4" x 4")
8892	Universal Polishing Jig	6955-H	CrimpLok Tool Pouch

ORDERING INFORMATION CONNECTORS

PART NUMBER	STYLE	TYPE	FERRULE	TYPICAL LOSS	PRICE
6901	ST	MM	Zirconia	.2dB	$6.75
6900	SC	MM	Zirconia	.2dB	$7.00
8901	ST	SM	Zirconia	.1dB	$9.50
8900	SC	SM	Zirconia	.1dB	$9.50

ORDERING INFORMATION KIT & SUPPLIES

6955	CrimpLok Tool Kit for ST, SC Connectors	$655.00
6365-CT	3M Universal Crimp Tool	$150.00
6955T	3M CrimpLok Activation Tool	$135.00
SP-00503	3M CrimpLok One-step Polish Film	$58.00
80-6110-1312-1	3M CrimpLok SM Final Step Film (50 pk)	$46.95

QUICK TERMINATION CONNECTORS

LEVITON Thread-Lock Kit & Connectors

The Thread-Lock connector from Leviton is available in SC, FC and ST styles. These field-terminable, simple, craft-friendly connectors can be installed quickly with no heat, epoxy or proprietary tools. Features silicon snap-on build-up sleeves for easy installation. Available for 62.5µm, 50µm & singlemode fiber.

ORDERING INFORMATION CONNECTORS & CLIP

49884-MSC	*SC Thread-Lock Connector MM (50µm or 62.5µm Fiber)*	**$9.15**
49882-MST	*ST Thread-Lock Connector MM (50µm or 62.5µm Fiber)*	**$6.75**
49883-MFC	*FC Thread-Lock Connector MM (50µm or 62.5µm Fiber)*	**$7.75**
49884-SSC	*SC Thread-Lock Connector Singlemode*	**$10.95**
49882-SST	*ST Thread-Lock Connector Singlemode*	**$7.95**
49883-SFC	*FC Thread-Lock Connector Singlemode*	**$12.15**
49884-DPC	*SC Duplex Clip for Thread-Lock Connectors, Black (25/bag)*	**$9.45**

ORDERING INFORMATION KIT & SUPPLIES

49800-UTP	*Leviton Opt-X Pro Tool Kit for Thread-Lock Connectors*	**$640.00**
49885-SBS	*Silicon Build-Up Sleeve, w/ one of each BUS type (5/bag)*	**$3.50**
49886-CTT	*Thread-Lock ST/SC Tightening Tool*	**$4.35**

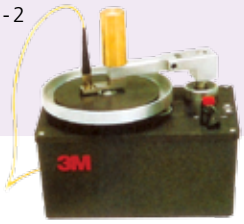
3M™ Hot Melt Connectors

3M Hot Melt continues to be a popular choice among installers in the field. The Hot Melt connectors utilize an advanced adhesive technology eliminating the application of epoxy. The connectors provide quick termination in 2 minutes or less and reheatable to allow for the fiber repositioning. All 3M Hot Melt connectors have a typical loss of 0.2dB.

All Hot Melt Kits Include

6312/XXXX	120V Oven / 230V Oven	**6365-ST**	Stripping Tools
6190	ST Connector Holders - 4	**6365-CT**	Crimp Tool
SP-00504	FC Connector Holders - 4	**6365-FS**	Fiber Scribe
SP-00505	FC Connector Holders - 4	**6365-VS**	View Scope (200x)
6365-PP	Round Polishing Pad	**CA-8**	Pronto Adhesive
6192A	2µm Lapping Film (pale green) - 200		Alcohol Bottle (empty)
661X-0.5S	0.5µm Diamond Lapping Film (pale gray)		Water Bottle (empty)
863X-0.02S	0.5µm Final Lapping Film (frosted) - 50		Fiber Scrap Can
263X	0.05µm Lapping Film (pale yellow) - 30		Roll-Up Pouch
8365-PP	Soft Polishing Pad - 2		Lint-Free Cloths
8892	Polishing Jig - 3		Fiber Marking Pen
6365-JS	Jacket Stripper		Training CD
6365-KS	Kevlar Snips		Instructions (paper)

6156



6850A

ORDERING INFORMATION CONNECTOR KITS

6365	*3M Hot Melt Tool Kit for ST, FC, SC with Oven (120V)*	**$1,240.00**
6361	*3M Hot Melt Tool Kit for ST, FC, SC with Oven (230V)*	**$1,300.00**
6156	*Conversion Kit (Oven, ST, SC, FC Holders, and Cooling Stand)*	**$637.00**

OPTIONAL ACCESSORIES AND SUPPLIES

FOM-9110	*6 Port Hot Melt Oven*	**$296.00**
FOM-9130	*12 Port Hot Melt Oven*	**$345.00**
6850A	*Auto Polisher for Hot Melts includes ST Holder)*	**$1,733.35**
6392	*SC Holder for 6850A Polisher*	**$115.00**
6292	*FC Holder for 6850A Polisher*	**$182.00**
661X-0.5S	*0.5µm Diamond Lapping Film*	**$5.85**
6192A	*2µm 5" Polish Film 50 Pack*	**$13.50**
6192B	*2µm 4" Polish Film 50 Pack for 6850A Polisher*	**$13.50**
6192-AA	*Singlemode Final Polish Film for Hot Melts*	**$0.40**
6650-LC	*LC Hot Melt Expansion Kit*	**$766.70**
6650-LH	*LC Hot Melt Holders*	**$225.00**

ORDERING INFORMATION CONNECTORS

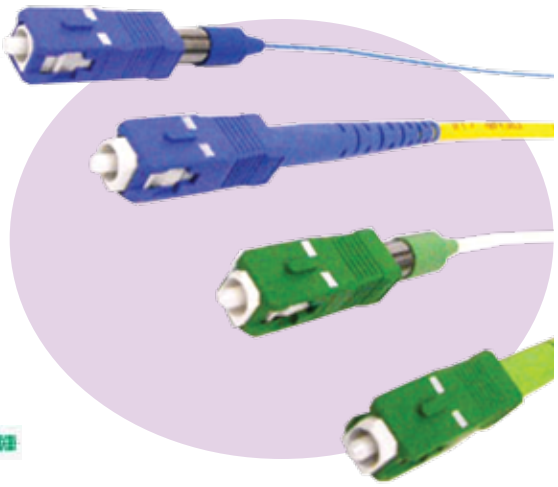
PART #	STYLE	TYPE	FIBER SIZE	PRICE
6100	*ST*	*Multimode*	*125µm*	**$4.85**
8100YS	*ST*	*Singlemode*	*126µm*	**$8.75**
6200	*FC*	*Multimode*	*125µm*	**$6.75**
8200W	*FC*	*Singlemode*	*126µm*	**$8.00**
6300	*SC*	*Multimode*	*125µm*	**$4.85**
8300	*SC*	*Singlemode*	*126µm*	**$8.45**
6600-S	*LC Simplex*	*MM/900µm Boot*	*125µm*	**$6.65**
6600-D	*LC Duplex*	*MM/900µm Boot*	*125µm*	**$14.00**
6602-S	*LC Simplex*	*MM/1.6-2mm Boot*	*125µm*	**$7.00**
6602-D	*LC Duplex*	*MM/1.6-2mm Boot*	*125µm*	**$14.00**
6603-S	*LC Simplex*	*MM/3.0mm Boot*	*125µm*	**$7.00**
6603-D	*LC Duplex*	*MM/3.0mm Boot*	*125µm*	**$14.00**
8600-S	*LC Simplex*	*SM/900µm Boot*	*126µm*	**$9.00**
8602-S	*LC Simplex*	*SM/1.6-2mm Boot*	*126µm*	**$9.35**
8603-S	*LC Simplex*	*SM/3.0mm Boot*	*126µm*	**$9.35**

FITEL Splice-On Connector System

FITEL's new connector termination system allows for unsurpassed performance and flexibility in the field.

This new "splice-on" connector eliminates the need for field polishing and significantly improves the quality of the termination and installation time required.

FITEL's factory polished ferrules with pre-cleaved fiber stubs are spliced onto the field fiber utilizing FITEL's proprietary ferrule holder and fusion splicer. Once spliced, the SC/APC or SC/UPC connector is easily assembled by using a process that requires minimal skill or training.



900µm CONSTRUCTION

2 & 3mm CONSTRUCTION

ORDERING INFORMATION CONNECTOR KITS

SOC-KIT-A	*S122 Connector Termination Add-on Kit*	**$1,995.00**
SOC-KIT-B	*S177 Connector Termination Add-on Kit*	**$1,995.00**

ORDERING INFORMATION CONNECTORS

SSCS-PN1	*SC/APC Splice-On-Connector, 900µm*	**$17.05**
SSCS-PN2	*SC/APC Splice-On-Connector, 2mm*	**$17.36**
SSCS-PN3	*SC/APC Splice-On-Connector, 3mm*	**$17.36**
SSCS-P1	*SC/UPC Splice-On-Connector, 900µm*	**$16.56**
SSCS-P2	*SC/UPC Splice-On-Connector, 2mm*	**$16.94**
SSCS-P3	*SC/UPC Splice-On-Connector, 3mm*	**$16.94**
SAPS-388	*FC/APC Splice-On-Connector, 900µm*	**$19.49**
SAPS-386	*FC/APC Splice-On-Connector, 2mm*	**$19.84**
SAPS-387	*FC/APC Splice-On-Connector, 3mm*	**$19.84**
SAPS-358	*FC/UPC Splice-On-Connector, 900µm*	**$19.02**
SAPS-356	*FC/UPC Splice-On-Connector, 2mm*	**$19.37**
SAPS-357	*FC/UPC Splice-On-Connector, 3mm*	**$19.37**

SPECIFICATIONS

	TYPE	
	SC/UPC; FC/UPC	**SC/APC; FC/APC**
Insertion Loss	Typical 0.30dB	
Reflectance	< - 55dbB	< -65dB
Fiber Type	SMF	
Jacket Type	900µm, 2mm, 3mm	
Ferrule Type	Zirconia ceramic ferrule w/pre-polished fiber stub	

SUMITOMO Lynx CustomFit™ Splice-On-Connectors

The Lynx—CustomFit Splice-On Connector is compatible with a vast array of existing splicer brands in the market. Customization in the field, ease of use, elimination of hand polishing, reproducible results, reliability, and unprecedented accuracy in connectorization makes the Lynx—CustomFit Splice-On Connector the new choice in fiber termination.

ORDERING INFORMATION CONNECTORS

LYNX-SCUPCSM-F1	*SC/UPC Lynx Splice-On-Connector, Singlemode, 250µm & 900µm (pack)*	**$16.31**
LYNX-SCAPCSM-F1	*SC/APC Lynx Splice-On-Connector, Singlemode, 250µm & 900µm (pack)*	**$16.89**
LYNX-SCUPCMM-F2	*SC/UPC Lynx Splice-On-Connector, Multimode 50µm, 250µm & 900µm (pack)*	**$16.31**

LYNX-HOLDER-C

ORDERING INFORMATION SUPPLIES

LYNX-HOLDER-C	*Connector Holder for Lynx Connectors*	**$350.00**

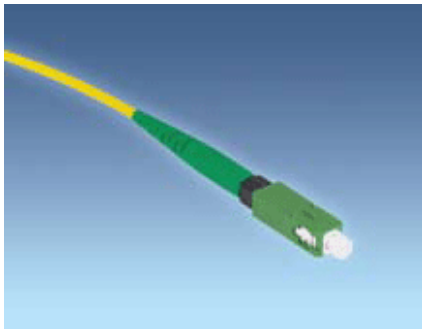
SPECIFICATIONS

Fiber Type	SMF; MMF 50µm and 62.5µm	
Coating Diameter	250µm, 900µm, 2mm, and 3mm	
Connector Type	SC	
Polishing	UPC	APC
Insertion Loss	Typical 0.20dB	Typical 0.20dB
Return Loss	< -55dB	< -65dB
Color	Blue	Green

- Permanent Termination
- Easy Installation and High Performance
- Compatible with Conventional SC Connector
- Requires Neither Adhesives, Hand Polishing, nor Matching Gel
- Customized Connectorization in the OSP, CO, and Premise Environments
- Meets Telcordia GR-326 Standard
- Complete Connectorization in Less than 3 Minutes
- Instant Splice Loss Feedback, Requiring No Additional Equipment
- Eliminates the Need to Inventory Preterminated Jumpers
- Compatible with Many Existing Fusion Splicers, Eliminating Costly Purchases

FUSECONNECT™ Connectors

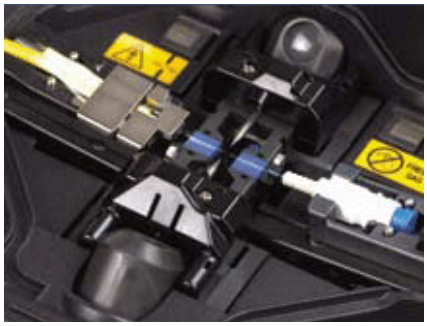
Fusion Spliced Field-terminated SC Connector



FuseConnect SC Connecter

FuseConnect Packaging

FuseConnect Installation Kit



FuseConnect in Fusion Splicer

AFL Telecommunications' FuseConnect fusion-splice field-terminated connectors are uniquely designed, featuring just four components. With a factory pre-polished ferrule, its innovative field-termination process eliminates polishing, adhesives, and crimping in the field using the FuseConnect Installation Kit.

FuseConnect utilizes a fusion splicer to terminate a connector in the field, addressing return loss concerns present in analog optical networks. This advanced process yields true APC performance of >65dB return loss in an SC/APC configuration. Designed to work with an industry standard 10mm cleave length and splicers utilizing a fiber holder system, FuseConnect is compatible not only with Fujikura's fusion splicers, but also with most other industry available, fiber holder-based fusion splicing platforms.

The innovative four-component structure of FuseConnect eliminates the complexity of additional crimp ring parts, virtually eliminating the crimping operation. The simplified field installation minimizes the potential for operator error and expensive connector scrap, even in difficult field environments or in exposed conditions at remote site locations.

SPECIFICATIONS

PARAMETER	VALUES
Connector Type	SC (TIA/EIA-604-3)
Cable Type	900µm, 2mm, 3mm
Polish	APC, UPC
Insertion Loss	< 0.35dB
Return loss	> 65dB (APC), > 55dB (UPC)
Color	Green (APC), Blue (UPC)

Features

- Field installable
- Only four components
- No adhesives, crimping or polishing
- True apc performance
- Performs to gr-326-core
- Meet tia/eia-604-3 (focis-3)
- Compatible with most fusion splicers

Applications

- F-overlay ftp network connectorization
- Cable TV backbone network connectorization
- Outside plant connectorization
- Central office connector replacement
- Data center installation
- Mdu optical fiber termination

ORDERING INFORMATION CONNECTORS

PART #	DESCRIPTION	PRICE
CS004516	*FuseConnect™ Connector, SM, SC, APC, 2.0mm, Green*	**$15.70**
CS004515	*FuseConnect™ Connector, SM, SC, APC, 3.0mm, Green*	**$15.70**
CS004517	*FuseConnect™ Connector, SM, SC, APC, 900µm, Green*	**$15.70**
CS004519	*FuseConnect™ Connector, SM, SC, UPC, 2.0mm, Blue*	**$15.70**
CS004518	*FuseConnect™ Connector, SM, SC, UPC, 3.0mm, Blue*	**$15.70**
CS004520	*FuseConnect™ Connector, SM, SC, UPC, 900µm, Blue*	**$15.70**
S014492	*FuseConnect™ Installation Kit for FSM-60S, FSM-60R, FSM-18S, FSM-18R*	**$995.00**
S014516	*FuseConnect™ Installation Kit for SpliceMate™ FSM-11S, FSM-11R, (BTR-07 Required)*	**$1,150.00**

SINGLEMODE UPC Patchcords

SC-SC SIMPLEX

PC-S-ACUCU01F	1 Meter	$9.75
PC-S-ACUCU02F	2 Meter	$10.05
PC-S-ACUCU03F	3 Meter	$10.30
PC-S-ACUCU05F	5 Meter	$11.05
PC-S-ACUCU10F	10 Meter	$12.50

ST-ST SIMPLEX

PC-S-ATUTU01F	1 Meter	$9.75
PC-S-ATUTU02F	2 Meter	$10.05
PC-S-ATUTU03F	3 Meter	$10.30
PC-S-ATUTU05F	5 Meter	$11.05
PC-S-ATUTU10F	10 Meter	$12.50

LC-LC SIMPLEX

PC-S-ALULU01F	1 Meter	$11.45
PC-S-ALULU02F	2 Meter	$11.75
PC-S-ALULU03F	3 Meter	$12.45
PC-S-ALULU05F	5 Meter	$12.75
PC-S-ALULU10F	10 Meter	$14.75

FC-FC SIMPLEX

PC-S-AFUFU01F	1 Meter	$9.75
PC-S-AFUFU02F	2 Meter	$10.05
PC-S-AFUFU03F	3 Meter	$10.30
PC-S-AFUFU05F	5 Meter	$11.05
PC-S-AFUFU10F	10 Meter	$12.50

SC-SC DUPLEX

PC-S-DCUCU01F	1 Meter	$18.85
PC-S-DCUCU02F	2 Meter	$19.75
PC-S-DCUCU03F	3 Meter	$20.65
PC-S-DCUCU05F	5 Meter	$22.45
PC-S-DCUCU10F	10 Meter	$24.05

ST-ST DUPLEX

PC-S-DTUTU01F	1 Meter	$18.85
PC-S-DTUTU02F	2 Meter	$19.75
PC-S-DTUTU03F	3 Meter	$20.65
PC-S-DTUTU05F	5 Meter	$22.45
PC-S-DTUTU10F	10 Meter	$24.05

LC-LC DUPLEX

PC-S-DLULU01F	1 Meter	$24.05
PC-S-DLULU02F	2 Meter	$24.45
PC-S-DLULU03F	3 Meter	$25.45
PC-S-DLULU05F	5 Meter	$26.00
PC-S-DLULU10F	10 Meter	$29.95

FC-FC DUPLEX

PC-S-DFUFU01F	1 Meter	$18.85
PC-S-DFUFU02F	2 Meter	$19.75
PC-S-DFUFU03F	3 Meter	$20.65
PC-S-DFUFU05F	5 Meter	$22.45
PC-S-DFUFU10F	10 Meter	$24.05

SINGLEMODE HYBRID UPC Patchcords

SC-ST SIMPLEX

PC-S-ACUTU01F	1 Meter	$9.75
PC-S-ACUTU02F	2 Meter	$10.05
PC-S-ACUTU03F	3 Meter	$10.30
PC-S-ACUTU05F	5 Meter	$11.05
PC-S-ACUTU10F	10 Meter	$12.50

LC-SC SIMPLEX

PC-S-ALUCU01F	1 Meter	$10.75
PC-S-ALUCU01F	2 Meter	$11.05
PC-S-ALUCU01F	3 Meter	$11.45
PC-S-ALUCU01F	5 Meter	$12.05
PC-S-ALUCU01F	10 Meter	$13.75

SPECIFICATIONS Singlemode

Typical Loss	0.3 dB
Back Reflection	-55 dB

SC-ST DUPLEX

PC-S-DCUTU01F	1 Meter	$18.85
PC-S-DCUTU02F	2 Meter	$19.75
PC-S-DCUTU03F	3 Meter	$20.65
PC-S-DCUTU05F	5 Meter	$22.45
PC-S-DCUTU10F	10 Meter	$24.05

LC-SC DUPLEX

PC-S-DLUCU01F	1 Meter	$22.00
PC-S-DLUCU02F	2 Meter	$22.75
PC-S-DLUCU03F	3 Meter	$23.35
PC-S-DLUCU05F	5 Meter	$24.75
PC-S-DLUCU10F	10 Meter	$27.75

MULTIMODE 50 µm

SC-SC SIMPLEX

PC-N-ACUCU01F	1 Meter	$5.15
PC-N-ACUCU02F	2 Meter	$5.65
PC-N-ACUCU03F	3 Meter	$6.10
PC-N-ACUCU05F	5 Meter	$7.05
PC-N-ACUCU10F	10 Meter	$9.45

ST-ST SIMPLEX

PC-N-ATUTU01F	1 Meter	$5.15
PC-N-ATUTU02F	2 Meter	$5.65
PC-N-ATUTU03F	3 Meter	$6.10
PC-N-ATUTU05F	5 Meter	$7.05
PC-N-ATUTU10F	10 Meter	$9.45

LC-LC SIMPLEX

PC-N-ALULU01F	1 Meter	$7.75
PC-N-ALULU02F	2 Meter	$6.15
PC-N-ALULU03F	3 Meter	$8.80
PC-N-ALULU05F	5 Meter	$9.85
PC-N-ALULU10F	10 Meter	$12.65

LC-LC DUPLEX

PC-N-DLULU01F	1 Meter	$16.00
PC-N-DLULU01F	2 Meter	$16.80
PC-N-DLULU01F	3 Meter	$17.60
PC-N-DLULU01F	5 Meter	$19.30
PC-N-DLULU01F	10 Meter	$23.60

SC-SC DUPLEX

PC-N-DCUCU01F	1 Meter	$10.50
PC-N-DCUCU02F	2 Meter	$11.45
PC-N-DCUCU03F	3 Meter	$12.45
PC-N-DCUCU05F	5 Meter	$14.35
PC-N-DCUCU10F	10 Meter	$19.15

ST-ST DUPLEX

PC-N-DTUTU01F	1 Meter	$10.50
PC-N-DTUTU02F	2 Meter	$11.45
PC-N-DTUTU03F	3 Meter	$12.45
PC-N-DTUTPU5F	5 Meter	$14.35
PC-N-DTUTU10F	10 Meter	$19.15

MULTIMODE PATCHCORDS

MULTIMODE HYBRID 50 µm

SC-ST DUPLEX

PC-N-DCUTU01F	1 Meter	$10.50
PC-N-DCUTU02F	2 Meter	$11.45
PC-N-DCUTU03F	3 Meter	$12.45
PC-N-DCUTU05F	5 Meter	$14.35
PC-N-DCUTU10F	10 Meter	$19.15

SPECIFICATIONS Multimode

Typical Loss	0.4 dB
Back Reflection	-25 dB

LC-SC DUPLEX

PC-N-DLUCU01F	1 Meter	$13.45
PC-N-DLUCU02F	2 Meter	$14.50
PC-N-DLUCU03F	3 Meter	$15.10
PC-N-DLUCU05F	5 Meter	$16.75
PC-N-DLUCU10F	10 Meter	$21.50

MULTIMODE 62.5 µm

SC-SC SIMPLEX

PC-M-ACUCU01F	1 Meter	$5.15
PC-M-ACUCU02F	2 Meter	$5.75
PC-M-ACUCU03F	3 Meter	$6.10
PC-M-ACUCU05F	5 Meter	$7.05
PC-M-ACUCU10F	10 Meter	$9.45

ST-ST SIMPLEX

PC-M-ATUTU01F	1 Meter	$5.15
PC-M-ATUTU02F	2 Meter	$5.75
PC-M-ATUTU03F	3 Meter	$6.10
PC-M-ATUTU05F	5 Meter	$7.05
PC-M-ATUTU10F	10 Meter	$9.45

LC-LC SIMPLEX

PC-M-ALULU01F	1 Meter	$7.75
PC-M-ALULU02F	2 Meter	$8.30
PC-M-ALULU03F	3 Meter	$8.80
PC-M-ALULU05F	5 Meter	$9.85
PC-M-ALULU10F	10 Meter	$12.65

SC-SC DUPLEX

PC-M-DCUCU01F	1 Meter	$10.50
PC-M-DCUCU02F	2 Meter	$11.45
PC-M-DCUCU03F	3 Meter	$12.45
PC-M-DCUCU05F	5 Meter	$14.35
PC-M-DCUCU10F	10 Meter	$19.15

LC-LC DUPLEX

PC-M-DLULU01F	1 Meter	$16.00
PC-M-DLULU02F	2 Meter	$16.85
PC-M-DLULU03F	3 Meter	$17.60
PC-M-DLULU05F	5 Meter	$19.30
PC-M-DLULU10F	10 Meter	$23.06

ST-ST DUPLEX

PC-M-DTUTU01F	1 Meter	$10.50
PC-M-DTUTU02F	2 Meter	$11.45
PC-M-DTUTU03F	3 Meter	$12.45
PC-M-DTUTU05F	5 Meter	$14.35
PC-M-DTUTU10F	10 Meter	$19.15

MULTIMODE HYBRID 62.5 µm

SC-ST SIMPLEX

PC-M-ACUTU01F	1 Meter	$5.15
PC-M-ACUTU02F	2 Meter	$5.75
PC-M-ACUTU03F	3 Meter	$6.10
PC-M-ACUTU05F	5 Meter	$7.05
PC-M-ACUTU10F	10 Meter	$10.05

LC-SC SIMPLEX

PC-M-ALUCU01F	1 Meter	$6.35
PC-M-ALUCU02F	2 Meter	$6.85
PC-M-ALUCU03F	3 Meter	$7.40
PC-M-ALUCU05F	5 Meter	$8.45
PC-M-ALUCU10F	10 Meter	$11.05

LC-ST SIMPLEX

PC-M-ALUTU01F	1 Meter	$6.35
PC-M-ALUTU02F	2 Meter	$6.85
PC-M-ALUTU03F	3 Meter	$7.40
PC-M-ALUTU05F	5 Meter	$8.45
PC-M-ALUTU10F	10 Meter	$11.05

SC-ST DUPLEX

PC-M-DCUTU01F	1 Meter	$10.50
PC-M-DCUTU02F	2 Meter	$11.45
PC-M-DCUTU03F	3 Meter	$12.45
PC-M-DCUTU05F	5 Meter	$14.45
PC-M-DCUTU10F	10 Meter	$19.95

LC-SC DUPLEX

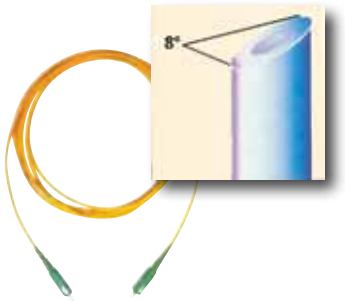
PC-M-DLUCU01F	1 Meter	$13.45
PC-M-DLUCU02F	2 Meter	$14.25
PC-M-DLUCU03F	3 Meter	$15.10
PC-M-DLUCU05F	5 Meter	$16.75
PC-M-DLUCU10F	10 Meter	$21.50

LC-ST DUPLEX

PC-M-DLUTU01F	1 Meter	$13.45
PC-M-DLUTU02F	2 Meter	$14.25
PC-M-DLUTU03F	3 Meter	$15.10
PC-M-DLUTU05F	5 Meter	$16.75
PC-M-DLUTU10F	10 Meter	$21.50

SC/APC & FC/APC Patchcords

High Performance Patchcords from FiberOptic.com offer customers superior connections in patchpanels or at workstations. These patchcords exceed industry standards.



SC - SC APC PATCHCORDS

PC-S-DCACA01F	*1 Meter*	**$15.75**
PC-S-DCACA02F	*2 Meter*	**$16.10**
PC-S-DCACA03F	*3 Meter*	**$16.45**
PC-S-DCACA05F	*5 Meter*	**$17.25**
PC-S-DCACA10F	*10 Meter*	**$20.00**

FC - SC APC PATCHCORDS

PC-S-DFACA01F	*1 Meter*	**$15.75**
PC-S-DFACA02F	*2 Meter*	**$16.10**
PC-S-DFACA03F	*3 Meter*	**$16.45**
PC-S-DFACA05F	*5 Meter*	**$17.25**
PC-S-DFACA10F	*10 Meter*	**$20.00**

FC - FC APC PATCHCORDS

PC-S-DFAFA01F	*1 Meter*	**$15.75**
PC-S-DFAFA02F	*2 Meter*	**$16.10**
PC-S-DFAFA03F	*3 Meter*	**$16.45**
PC-S-DFAFA05F	*5 Meter*	**$17.25**
PC-S-DFAFA10F	*10 Meter*	**$20.00**

MT-RJ FEMALE Multimode 62.5µm Patchcords

Stock MR-RJ Patchcords assemblies are terminated with multimode female MT-RJ connectors using duplex 1.6mm cable. Other configurations such as singlemode and 50/125 MT-RJ Patchcords are available. FOM MT-RJ Patchcords are individually bagged and tested in compliance with industry specifications. FOM MT-RJ stock cords do not have alignment pins installed.

MT-RJ - MT-RJ 62.5µm PATCHCORDS

PC-M-FJNJN01F	*1 Meter*	**$9.45**
PC-M-FJNJN02F	*2 Meter*	**$10.05**
PC-M-FJNJN03F	*3 Meter*	**$10.65**
PC-M-FJNJN05F	*5 Meter*	**$11.85**

MT-RJ - SC 62.5µm PATCHCORDS

PC-M-FJNCU01F	*1 Meter*	**$9.45**
PC-M-FJNCU02F	*2 Meter*	**$10.05**
PC-M-FJNCU03F	*3 Meter*	**$10.65**
PC-M-FJNCU05F	*5 Meter*	**$11.85**

MT-RJ - ST 62.5µm PATCHCORDS

PC-M-FJNTU01F	*1 Meter*	**$9.45**
PC-M-FJNTU02F	*2 Meter*	**$10.05**
PC-M-FJNTU03F	*3 Meter*	**$10.65**
PC-M-FJNTU05F	*5 Meter*	**$11.85**

DUPLEX 10 GIGABIT 50µm InfiniCor® SX+ Patchcords

FOM offers 10 Gigabit duplex 1.6mm multimode 50µm Patchcords perfect for upgrading your network. Operating distance of 300 meters using laser-optimized InfiniCor SX + multimode fiber. FOM 10 Gigabit assemblies are designed to run advanced applications, meet IEEE 802.3 specifications and offer superior connector polish. Other configurations available upon request.

SC - SC 10 GB DUPLEX

PC-N-FCUCU01F	*1 Meter*	**$13.75**
PC-N-FCUCU02F	*2 Meter*	**$14.75**
PC-N-FCUCU02F	*3 Meter*	**$15.75**

MT-RJ - SC 10 GB DUPLEX

PC-N-FJNCU01F	*1 Meter*	**$14.95**
PC-N-FJNCU02F	*2 Meter*	**$15.95**
PC-N-FJNCU03F	*3 Meter*	**$16.95**

LC - LC 10 GB DUPLEX

PC-N-FLULU01F	*1 Meter*	**$18.65**
PC-N-FLULU02F	*2 Meter*	**$18.95**
PC-N-FLULU03F	*3 Meter*	**$19.35**

MT-RJ - MT-RJ 10 GB DUPLEX

PC-N-FJNJN01F	*1 Meter*	**$13.95**
PC-N-FJNJN02F	*2 Meter*	**$14.95**
PC-N-FJNJN03F	*3 Meter*	**$15.95**

MT-RJ - LC 10 GB DUPLEX

PC-N-FJNLU01F	*1 Meter*	**$16.85**
PC-N-FJNLU02F	*2 Meter*	**$17.85**
PC-N-FJNLU03F	*3 Meter*	**$18.85**

CUSTOM Cable Assemblies

Call 877.529.9114 to configure your custom patchcord.
Choose from Singlemode, Multimode 50µm and Multimode 62.5µm; Any cable type (simplex, duplex, polarization maintaining, etc.); Any connector style and length. For those with a preference for manufacturer, FiberOptic.com's custom assemblies can represent Corning, Molex, 3M, AMP, Seiko and FiberOptic.com.

MULTILINK

RACK MOUNT FIBER OPTIC DISTRIBUTION SOLUTIONS

Rack mount fiber distribution units designed to support patching and splicing in one unit. Units have a slide out master panel with an integrated tray stop to prevent overextension of fiber cables. Also has a two-piece top and a swell latch door to allow for easy access to the adapter panels.

Slide-Out Removable Top Style Fiber Distribution Units

FOM-RM1-3X

FOM-RM2-6X

FOM-RM3-9X

Specifications

	FOM-RM1-3X-BLK	FOM-RM2-6X-BLK	FOM-RM3-9X-BLK
Size (H x W x D)	1.75 x 17 x 14 in	3.50 x 17 x 14 in	5.25 x 17 x 14 in
Weight	16 lbs.		
Material	.06" Powdered Coated Steel	.06" Powdered Coated Steel	.06" Powdered Coated Steel
Capacity	18-36	36-72	54-108
RU	1 RU	2 RU	3 RU

Features:

- Enclosures are with universal mounting hardware
- Slide out swing out master panel
- Enclosure can bo ordered fully terminated with cabling or pigtails from factory

ORDERING INFORMATION

045-115-10	*FOM-RM1-3X*	**$124.37**
045-083-10	*FOM-RM2-6X*	**$160.91**
045-152-10	*FOM-RM3-9X*	**$197.13**

Other colors available

Swing-Out Style Fiber Distribution Units

FOM-RM1-2X-SO

FOM-RM2-4X-SO

Slide-Out Style Fiber Distribution Units

FOM-RM2-4X-BLK

FOM-RM3-6X-BLK

FOM-RM4-12X-BLK

Specifications

	FOM-RM1-2X-SO	FOM-RM2-4X-SO	FOM-RM2-4X-BLK	FOM-RM3-6X-BLK	FOM-RM4-12X-BLK
Size (H x W x D)	1.75 x 17 x 11 in	3.5 x 17 x 11 in	3.5 x 17 x 14 in	5.25 x 17 x 14 in	7 x 17 x 14 in
Weight	12 lbs	13 lbs	22 lbs	24 lbs	26 lbs
Material	16 GA Powder Coated Steel	16 GA Powder Coated Steel	.060" Powder Coated Steel	.060" Powder Coated Steel	14 GA Powder Coated Steel
Capacity	12-24	24-48	24-48	36-72	72-144
RU	1 RU	2 RU	2 RU	3 RU	4 RU

ORDERING INFORMATION

10-4323	*FOM-RM1-2X-SO*	**$83.49**	**10-4540**	*FOM-RM3-6X-BLK*	**$171.12**
10-4327	*FOM-RM2-4X-SO*	**$116.52**	**10-4536**	*FOM-RM4-12X-BLK*	**$215.18**
10-4457	*FOM-RM2-4X-BLK*	**$145.12**		*Other colors available*	

MULTILINK

RACK MOUNT FIBER OPTIC DISTRIBUTION SOLUTIONS

Slide-Out Style Fiber Distribution Units

FOM-RM8-24X-BLK

Slide-Out Style Patch & Splice Distribution Units

FOM-RM4-4X-BLK

FOM-RM8-12X-BLK

Specifications

	FOM-RM8-24X-BLK	FOM-RM4-4X-BLK	FOM-RM8-12X-BLK
Size (H x W x D)	14.88 x 17 x 14 in	7 x 17 x 14 in	14.88 x 17 x 14 in
Weight	19 lbs	16 lbs	20 lbs
Material	060" Powder Coated Aluminium	060" Powder Coated Aluminium	060" Powder Coated Aluminium
Capacity	144-288	24-48	72-144
RU	8.5 RU	4 RU	8.5 RU
Other		Includes 1 splice tray	Includes 1 splice tray

ORDERING INFORMATION

10-4546	*FOM-RM8-24X-BLK*	**$348.67**
10-5270	*FOM-RM4-4X-BLK*	**$226.33**
10-8584	*FOM-RM8-12X-BLK*	**$284.35**

Other colors available

In-Rack Splicing Units

FRM-3RU-SS

Features & Specifications

- In-rack splice shelf supports up to 96 fibers
- Slide-out master panel
- Hinged trays for accessing splices beneath eliminating the need for tray removal

ORDERING INFORMATION MODELS

MODEL #	RU	CAPACITY	SPLICE TRAYS*	PRICE
10-8572	*3*	*24-96 (Splices)*	*(4) 4048-SSTP*	**$173.74**
10-8007	*4048-SSTP 24 Single/ 28 Ribbon Splice Tray*			**$17.09**

MULTILINK

STANDARD SINGLE OUTER DOOR FIBER DISTRIBUTION UNITS

FOM-WM-1X-CC

Compact indoor wall mount enclosure for interconnectivity and termination of optical fibers

Panels	(1) Multilink Adapter Panels
Size (H x W x D)	6.3 x 5.5 x 1.57 in
Capacity	(1) Fiber spool
Material	18 GA steel
Coating	Electrostatic polyester powder ccoat paint, (Black or Off White)

 # 045-164-10 **$40.88**

FOM-WM-1X-SP

Compact indoor wall mount enclosure for interconnectivity and termination of optical fibers

Panels	(1) Multilink Adapter Panels
Size (H x W x D)	6.3 x 5.5 x 1.57 in
Capacity	(12) Single splice holder
Material	18 GA steel
Coating	Electrostatic polyester powder coat paint, (Black or Off White)

 # 045-187-10 **$ 37.54**

FOM-WM-1X

Wall mount single outer door distribution unit with inner network compartment security door and 2 termination panel capacity (Other colors available)

Size (H x W x D)	10.2 x 12 x 3.5 in
Weight	8 lbs
Capacity	(2) Panels
Material	18 GA powder coated steel
Splice tray	(2) 1120-SSTA

 # 10-2012 **$ 66.88**

MULTILINK

STANDARD DUAL DOOR FIBER DISTRIBUTION UNITS

FOM-WM-2X

Wall mount dual outer door distribution unit with captive screw fasteners on both doors and 2 termination panel capacity (Other colors available)

Size (H x W x D)	10.2 x 12.5 x 3.5 in
Weight	8 lbs
Capacity	(2) Panels
Material	16 GA powder coated steel
Splice tray	(2) 1120-SSTA
# 99009BK	**$92.46**

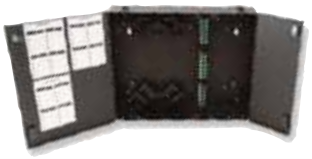
FOM-WM-4X

Wall mount dual outer door distribution unit with lockable network compartment door and 4 termination panel capacity (Other colors available)

Size (H x W x D)	10.8 x 12 x 4 in
Weight	10 lbs
Capacity	(4) Panels
Material	16 GA powder coated steel
Splice tray	(4) 1120-SSTA
# 99024BK	**$106.64**

FOM-WM-9X

Wall mount dual outer door distribution unit with lockable network and distribution compartment doors and 9 termination panel capacity (Other colors available)



Size (H x W x D)	17 x 21.2 x 5 in
Weight	23 lbs
Capacity	(9) Panels
Material	16 GA powder coated steel
Splice tray	(3) 2000-SSTA
# 10-5283	**$175.33**

FWM312410

Wall mount dual outer door distribution unit with lockable network door and 16 termination panel capacity

Size (H x W x D)	31 x 24 x 10 in
Weight	24 lbs
Capacity	(16) Panels
Material	.063 Aluminum powder coated
Splice tray	(8) 2000-SSTA
# 10-3800	**$454.26**

FWE288XH (Splice tray not included)

Economy 288 port wal mount unit, double door

Size (H x W x D)	17 x 21.1 x 5 in
Weight	23 lbs
Capacity	(12) Splice trays/fusion or mechanical
Material	16 GA steel
Splice tray	(12) 1120-SSTA (12) 2000-SSTA (12) 2020-SSTP
# 045-063-10	**$161.67**

ADDED SECURITY DUAL DOOR FIBER DISTRIBUTION UNITS

FOM-WM-8X

Compact wall mount dual outer door distribution unit with 8 termination panel capasity and integrated network compartment work shelf and removable style locking door (Other colors available)

Size (H x W x D)	16 x 20 x 6.5 in
Weight	24 lbs
Capacity	(8) Panels
Material	16 GA powder coated steel
Splice tray	(4) 2000-SSTA
# 045-030-10	**$189.37**

OPTICAL SPLICE ENCLOSURE

The Multilink OSE (Optical Splice Enclosure) is a wall mounted central splicing and cable management enclosure with a weather tight NEMA 4 design for indoor or outdoor applications. The unit is manufactured with top and bottom mounted cable entry plates each supporting up to (8) liquid tight cable seals. The enclosures interior compartment has two slide-out splice tray support shelves each with a (8) tray stacker. Depending on the tray elected, the enclosure supports up to 24F or 36F single fused fibers and if mass fusing, the enclosure can support >2000 mass fused fibers. Each splice tray incorporates the "open keyhole" hinging mechanism to allow for ease in tray entry without tray removal. The OSE is one of a family of units that support fiber splicing in wall mount applications.

Features:

- All Corrosion resistant materials with outer protective polyester powder coating.
- Compact design with high splice storage capacity.
- Lightweight but durable .080" Aluminum.
- Single outer and removable door.

OSE 384/576

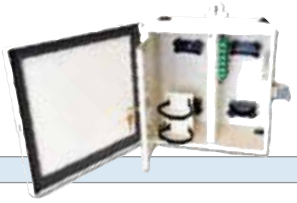
Wall mount central splicing and cable management enclosure (Other colors available)

Size (H x W x D)	28 x 25.25 x 14.5 in
Weight	47 lbs
Capacity	(16) Splice trays
Material	.080 Aluminum
Splice tray	(16) 4048-SSTP or (16) 4072-SSTP
# 045-009-10	**$906.81**

Splice Trays - Page 83, ***Adapter Plates*** - Page 86-87

NEMA RATED DISTRIBUTION UNITS

FOM-NEMA-2X



Wall mount NEMA 4 single outer door distribution unit with lockable network compartment door and 2 termination panel capacity

Size (H x W x D)	13 x 13.7 x 5.75 in
Weight	12 lbs
Capacity	(2) Panels
Material	.08 powder coated aluminum
Splice tray	(2) 1120-SSTA
# 045-060-10	**$268.11**

FOM-NEMA-4X

Wall mount NEMA 4 single outer door distribution unit with lockable network compartment door and 4 termination panel capacity

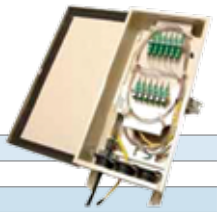
Size (H x W x D)	14 x 14 x 7 in
Weight	-
Capacity	(4) Panels
Material	.08 powder coated aluminum
Splice tray	(2) 2000-SSTA or 1120-SSTA
# 045-080-10	**$316.40**

FOM-NEMA-12X

Wall mount NEMA 4 single outer door distribution unit with lockable network compartment door and 12 termination panel capacity

Size (H x W x D)	22.4 x 19.5 x 10.5 in
Weight	16 lbs
Capacity	(12) Panels
Material	.08 powder coated aluminum
Splice tray	(6) 3000-SSTA
# 045-042-10	**$309.21**

FWM-2X-N4



Wall mount NEMA 4 distribution unit with lockable and removable single outer door. Available as a 2 panel termination and splice or splice only unit.

Size (H x W x D)	17.5" x 9" x 4"
Capacity	(2) Panels
Material	16 GA Powder Coated Steel
Splice tray	(2) 1120-SSTA (4 trays if no termination panel unit used)
# 10-4870	**$231.12**

FOM-OCS-36

Wall mount NEMA 1, 2, 3S, 4, 4X, 12 & 13 rated enclosure with a single outer door and inner network security door. 6 panel termination capacity and field drilled cable entries using standard weather tight conduit fittings.

Size (H x W x D)	18 x 16 x 10 in
Weight	10 lbs
Capacity	(6) Panels
Material	Impact and weather resistant plastic
Splice tray	(4) 1120-SSTA
Options	NPT cable entrance kit (065-016-10)
# 10-3338	**$358.63**

FOM-NR-24

Wall mount NEMA 12 dual outer door distribution unit with lockable network compartment door and 24 termination panel capacity. Optional gasket for additional protection

Size (H x W x D)	17.25 x 11.25 x 4 in
Weight	5 lbs
Capacity	(24) ST, SC or FC Termination
Material	Impact and weather resistant plastic
Splice tray	(2) 1120-SSTA
# 99025BSTK	**$41.30**

FOM-NR-48

Wall mount NEMA 12 dual outer door distribution unit with lockable network compartment door and 48 termination panel capacity. Optional gasket for additional protection

Size (H x W x D)	20 x 10 x 5.6 in
Weight	5 lbs
Capacity	(48) ST, SC or FC Termination
Material	Impact and weather resistant plastic
Splice tray	(4) 1120-SSTA
# 99049K	**$54.12**

Accessories

Lock & Key For Rack Mount Enclosures

For Lexan Doors of Rck Mount Enclosures
Ask for 99534 to installed on your rack mount enclosure

 # 99534 **$4.75**

Strain Relief Kit

Strain relief bracket for rack mount enclosures

Diameter:	.300 - .790"
Material:	Powder coated steel, rubber grommets
Grommets:	(1) .300 - .400", (1) .410 - .500", (1) .510 - .790"

 # 065-115-10 **$20.00**

MULTILINK *WALL MOUNT ENCLOSURES*

Multilink WALL MOUNT ENCLOSURES

WM-2X

Wall mount single outer door construction grade distribution unit with 2 termination panel capacity.

Size (H x W x D)	*13" x 9.5" x 3.5"*
Capacity	(2) Panels
Material	18 GA Powder Coated Steel
Splice tray	(2) 1120-SSTA
# 10-7944	**$48.67**

WM-4X

Wall mount single outer door construction grade distribution unit with 4 termination panel capacity.

Size (H x W x D)	*13" x 11.5" x 3.5"*
Capacity	(4) Panels
Material	18 GA Powder Coated Steel
Splice tray	(4) 1120-SSTA
# 10-7945	**$59.28**

WM-8X

Wall mount single outer door construction grade distribution unit with inner network compartment security door and 8 termination panel capacity.

Size (H x W x D)	*17" x 12" x 6"*
Capacity	(8) Panels
Material	18 GA Powder Coated Steel
Splice tray	(8) 1120-SSTA
# 10-7790	**$81.64**

FWM054X *Fiber Distribution Unit*

The FWM054X unit has 9 adapter panel positions allowing for a wide variety of fiber termination connector types and is equipped with a set of double lockable doors maintaining separation and security for the Network and Distribution sides of the termination panels. (Other colors available)

Capacity	(9) Panels
# 10-5283	**$180.48**

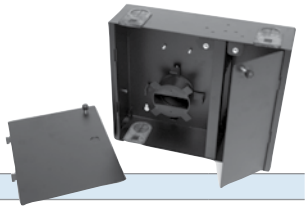
FF-Mini-WM12 FF-FOH (Splice Only)

Wall mount single outer door construction grade distribution unit with 4 termination panel capacity.

Size (H x W x D)	*13" x 11.5" x 3.5"*
Capacity	(4) Panels
Material	18 GA Powder Coated Steel
Splice tray	(4) 1120-SSTA
# 10-5818 BLK	**$56.36**

FF-WM-012 *Fiber Distribution Unit*

Inner swing out panel that stores pigtail slack and reveals the storage area for the enclosures splice tray. Two outer doors with a lockable Network compartment to maintain termination security. (Other colors available)



Size (H x W x D)	10.2" x 12" x 3.5"	
Capacity	(2) Panels	
Material	16 GA Powder Coated Steel	
Splice tray	(2) 1120-SSTA	
# 10-7790	*2 Panel, Lockable Network Door, Dist. Unit*	**$119.19**
# 70902K	*1120-SSTA 12 Single Fiber Splice Tray*	**$15.84**

FWM024XLC

Wall mount single outer door distribution unit with inner network compartment security door and 4 termination panel capacity. (Other colors available)

Size (H x W x D)	*12" x 12" x 3.5"*
Capacity	(4) Panels
Material	16 GA Powder Coated Steel
Splice tray	(4) 1120-SSTA
# 10-1914 BLK	**$74.09**

FF-WM-024 *Fiber Distribution Unit*

The unit has a drop down removable outer Network compartment door which can be used as a work shelf for splicing. The two outer doors with a lockable Network compartment are designed to maintain termination security. (Other colors available)

Capacity	(4) Panels	
# 10-4462	*4 Panel, Lockable Network Door, Dist Unit*	**$161.06**
# 70902K	*1120-SSTA 12 Single Fiber Splice Tray*	**$19.73**

Splice Trays - Page 83, ***Adapter Plates*** - Page 86-87

Multilink SPLICE TRAYS

All of the Multilink splice trays are universal to the industry. These trays are compatible with all of Multilink enclosures. The splice trays provide protection and organization of fiber splices. Adhesive backed fiber insert holders and assorted cable ties included (grommets included on the 3030-SSTP).

ORDERING INFORMATION

	70902K	*Aluminum 12 Single Fiber Splice Tray 7"L x 4.75"W x .50"D*	**$15.84**
	70506K	*Aluminum 24 Single Fiber Splice Tray 12.25"L x 4"W x .50"D*	**$20.13**
	3030-SSTP	*Plastic and Aluminum 24 Single Fiber Splice Tray 8.25"L x 6"W x .50"D*	**$17.09**
	065-001-10	*36 Single fusion splice tray, 72 dual stacked or 144 mass fusion ,plastic, 10.75"L x 5.75"W x .5"D*	**$22.44**
	70709K	*Plastic & Aluminum 24 Single Fiber Splice Tray 12.25"L x 4"W x .50"D*	**$18.15**
	70505K	*Aluminum 24 Single Fiber Splice Tray 8.5"L x 5.8"W x .50"D*	**$24.02**
	10-8007	*Splice tray 24 single/48 ribbon splice capacity 8.25"L x 6"W x .50"D*	**$17.09**
	065-209-10	*12 Single fusion splice tray, plastic, 6"L x 2.75"W x .75"D*	**$13.07**

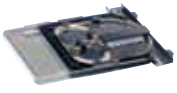
AFL LIGHTLINK™ FIBER OPTIC SPLICE TRAYS

The AFL Telecommunications' series of Fiber Optic Splice Trays offers a unique and flexible splice and storage system. Available in three industry standard configurations (mechanical, fusion or ribbon) or as a totally universal kit, the AFL Telecommunications Fiber Optic Splice Trays provides the most flexible and universal fiber storage system available.

Features

- Interchangeable inserts allow for single or mass fusion or mechanical splices
- Pre-molded snaps that securely hold buffer tubes or spiral wrap while splicing
- In-line or butt splice capability
- Pre-formed radius maintain bend requirements
- Interlocking base and cover provides tray stability without the use of a bolt
- Extended finger guides easily store and route loose fiber or ribbon

ORDERING INFORMATION

	91710-06	*Single Fusion Splice Tray - Stores 24 single fused fibers, base, cover, (1) twenty-four position fusion splice holder*	**$12.00**
	91957-00	*Splice Tray - Stores 12 single fusion splices, base, cover, (2) six position splice holders*	**$8.00**
	91958-00	*Splice Tray - Stores 8 mass fusion sleeves, base, deep cover, (2) four position ribbon sleeve holders*	**$11.00**
	FC000053	*LG-50 Splice Tray - Stores 24 single fusion splices, N/A base, cover, (3) eight position splice holders*	**$7.00**
	911676-00-02	*Universal High Density Splice Tray - Stores 96 single fusion splices or 3 sets of 4 mass fusion sleeves (144 Fibers)*	**$35.97**
	911289-00-02	*Universal Splice Tray - Stores 24 single fusion or 4 mass fusion sleeves (48 fibers), base, deep cover*	**$13.13**
	911437-00-02	*Mass Fusion Splice Tray Stores 12 mass fusion sleeves (144 fibers). Base, deep cover, (1) 2 position mass sleeve holder*	**$13.99**
	91711-07	*Mass Fusion Splice Tray Stores 4 mass fusion sleeves (48 fibers), base, deep cover, (1) four position mass sleeve holder*	**$13.00**
	LL-1200	*Mechanical Splice Tray Stores 12 mechanical splices, base, deep cover, (1) mechanical splice holder (12 splices)*	**$18.75**
	**OEE**	*Telescoping Splice Tray Stores up to 48 single fusion sleeves or 12 fusion sleeves (144 fibers)*	**$31.50**

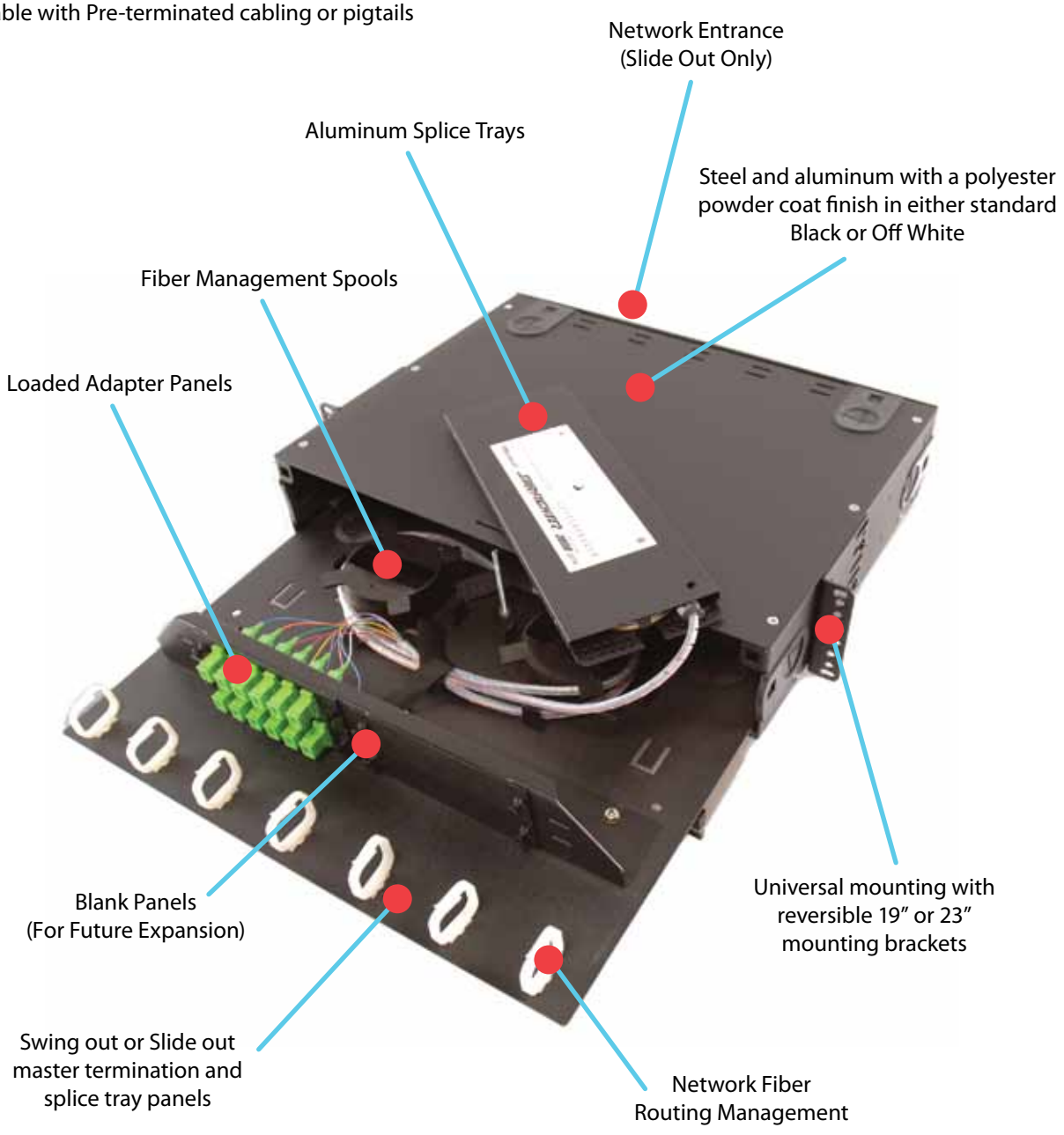
FiberOptic.com LOADED BOXES

Application

The FiberOptic.com family of rack mounted optical termination and in-rack splice enclosures are designed for the interconnection of patch cables, a combination of patching and splicing, or in-rack splicing. All of the enclosures are equipped with universal 19" or 23" rack mounting brackets. The product line supports from 2 to 24 termination panels in a variety of standard RU enclosures. Termination Shelves (TS) are designed with a slide out master panel shelf and allows for storage of splice trays behind the master termination panel. The Patch Splice (PS) enclosures have two separate slide out shelves: One with a termination master panel; the other with a tray support bracket and hinged trays. Swing out (SO) enclosures are designed for narrow depth applications with a hinged swing out master panel and splice tray storage.

Features & Benefits

- Steel and aluminum with a polyester powder coat finish in either standard Black or Off White
- Universal mounting with reversible 19" or 23" mounting brackets
- Swing out or Slide out master termination and splice tray panels
- Available with Pre-terminated cabling or pigtails



FiberOptic.com LOADED BOXES

Example Configuration:

ML 02 24 B ST6 MP 003 21 12

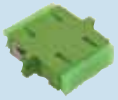
Translates:

FWM024XLC, 24 loaded ports, Black, ST 6 Port Multimode, Multifiber pigtails, 3 meters in length, equipped with 2 of the 1120-SSTA trays

Enclosure Type	# Of Conn.	Color	Adapter	Pigtail	Length (Meters)	Splice Tray***	Splice Count
WALL MOUNTS							
01 FWM012XLC	006	B-Black	SCS=SC Simplex MM	00=None	00X**	X1=1120-SSTA	12
02 FWM024XLC	012	O-Off White	SCD=SC Duplex MM	T9=900um		X2=2000-SSTA	24
03 FF-MINI-WM12	018	BE-Beige*	SUS=SC Simplex SM	T3=3mm		X3=2020-SSTP	24
04 FF-FOH	024		SUD=SC Duplex SM	MD=Module		X4=4048-SSTP	24
05 FF-WM-012	030		SAS=SC/APC Simplex SM	MP=Multifiber		X5=4072-SSTP	36
06 FF-WM-024	036		SAD=SC/APC Duplex SM	OSP=OSP Dielectric Cable		X6=3000-SSTA	24
07 FWM012XD	042		FC=FC MM	OSA=OSP Armored Cable		X7=3030-SSTP	24
08 FWM024X	048		FU=FC SM	DST=Distribution Cable		X8=612-SSTP	12
09 FWM054X	054		FA=FC/APC				
10 FWM-312410	060		LCS=LC Simplex MM			"X" denotes	
11 FF-OCS036	066		LCD=LC Duplex MM			number of trays	
22 FWM-2X-N4	072		LUS=LC Simplex SM				
23 FWM-2X-N4D	096		LUD=LC Duplex SM				
24 FWM-4X-N4D	144		LAS=LC/APC Simplex SM				
25 FWM-12X-N4D	288		LAD=LC/APC Duplex SM				
26 WM-2X (Multilite)			ST6=ST 6 port MM				
27 WM-4X (Multilite)			ST8=ST 8 port MM				
28 WM-8X (Multilite)			ST12=ST 12 port MM				
29 FF-WM-8X			SM6=ST 6 port SM				
32 FWM-1X-BK			SM8=ST 8 port SM				
33 FWM-1X-SP-BK			SM12=ST 12 port SM				
34 FF-MINI-WM12PS			MJ=MTRJ				
35 FWM012XPHBK							
RACK MOUNTS							
12 FRM-1RU-2X-SO							
21 FRM-1RU-3X-TS							
13 FRM-2RU-4X-SO							
14 FRM-2RU-4X-TS							
30 FRM-2RU-6X-TS							
15 FRM-3RU-6X-TS							
31 FRM-3RU-9X-TS							
16 FRM-4RU-12X-TS							
18 FRM-4RU-4X-PS							
17 FRM-8.5RU-24X-TS							
19 FRM-8.5RU-12X-PS							
20 FF-RM-12X							
RACK/WALL MOUNT							
36 FRWM-1RU-3X-TS							

* Only available for specified boxes. Refer to catalog descriptions.
** Feet divided by 2.54 and rounded up to the full meter.
*** Align with unit type.

ADAPTER PLATES & CONNECTORS
FOR WALL & RACK MOUNT ENCLOSURES

	Stock ID	Type	Foot print	Mode	Price
	99306	ST	ST	MM	$1.82
	99307	ST	ST	SM	$2.05
	99309	FC	FC	MM	$5.12
	99310	FC	FC	SM	$5.81
	10-5382	SC Simplex	SC	MM	$1.91
	99302	SC Duplex	SC Duplex	MM	$2.97
	99304	SC SImplex	SC	SM	$1.98
	10-5513	SC Simplex	SC	SM	$5.45
	10-3642	SC Simplex	SC	SM	$1.98
	10-5378	SC Duplex	SC Duplex	SM	$3.76

	Stock ID	Type	Foot print	Mode	Price
	065-236-10	SC Simplex 10 GIG	SC Sim-plex	MM	$3.50
	065-237-10	SC Duplex 10 GIG	SC Duplex	MM	$6.40
	10-9711	LC Duplex	LC Duplex	MM	$5.48
	10-4605	LC Duplex	LC Duplex	SM	$7.96
	065-240-10	LC Duplex 10 GIG	SC Sim-plex	MM	$6.77

	Stock ID	Model #	Conn. Type	# of Conn.	Mode	Price
	10-5458	ADP-6ST-M6	ST	6	MM	$14.73
	99234K	ADP-6ST-SM	ST	6	SM	$16.50
	10-9228	ADP-8ST-M6	ST	8	MM	$16.59
	10-9236	ADP-8ST-SM	ST	8	SM	$26.14
	10-9196	ADP-12ST-M6	ST	12	MM	$23.10
	10-6065	ADP-12ST-SM	ST	12	SM	$33.00
	10-5095	ADP-6FC-M6	FC	6	MM	$26.14
	10-4744	ADP-6FC-SM	FC	6	SM	$35.64
	065-217-50	ADP-8FC-M6	FC	8	MM	$31.68
	065-217-10	ADP-8FC-SM	FC	8	SM	$47.52
	065-218-50	ADP-12FC-M6	FC	12	MM	$54.12
	065-218-10	ADP-12FC-SM	FC	12	SM	$72.60
	10-3628	ADP-12MTRJ-M6	MTRJ	6	MM	$15.39

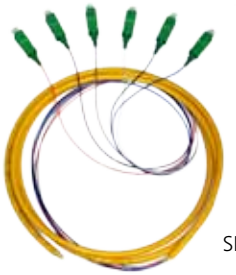
*Adapter plate prices are for fully loaded panels.

	Stock ID	Model #	Conn. Type	# of Conn.	Mode	Price
	10-9995	ADP-6SC-M6	SC	6	MM	$14.73
	10-9997	ADP-8SC-M6	SC	8	MM	$19.64
	10-5535	ADP-12SC-M6	SC	12	MM	$29.70
	10-4810	ADP-6SC-SM	SC	6	SM	$14.73
	10-7903	ADP-8SC-SM	SC	8	SN	$19.64
	10-1817	ADP-12SC-SM	SC	12	SM	$30.36
	10-4442	ADP-6SCAPC-SM	SC	6	SM	$23.10
	10-5463	ADP-8SCAPC-SM	SC	8	SM	$30.23
	10-5327	ADP-12SCAPC-SM	SC	6	SM	$38.28
	065-242-10	ADP-6SC-LOA	SC 10 GIG	6	MM	$18.40
	065-243-10	ADP-12SC-LOA	SC 10 GIG	12	MM	$29.30
	10-3626	ADP-12LC-M6	LC	12	MM	$20.86
	065-225-10	ADP-24LC-M6	LC	24	MM	$63.36
	10-9709	ADP-12LC-SM	LC	12	SM	$44.88
	065-244-10	ADP-24LC-SM	LC	24	SM	$65.25
	065-245-10	ADP-12LC-LOA	LC 10 GIG	12	MM	$25.74
	065-246-10	ADP-24LC-LOA	LC 10 GIG	24	MM	$46.12

*Adapter plate prices are for fully loaded panels.

PIGTAIL PACKS

This Fiber Optic pigtail is designed for high-volume applications. The benefits include easy ready to splice color-coded 900um high performance factory terminated pigtails. No shrink tubing for easy removal of outer jacket.Typical Loss 0.3dB. Back Reflection –55dB.



SPK-6SC-APC

SPK-12SC-UPC

Singlemode Pigtails

Stock ID	# 1 Connector	# 2 Connector	Cable Core/Clad	Cable Jacket	Cable color	Length (m)	Price
SPK-6SC-APC	(6) SC/APC	(6) Pigtails	9/125µm	900µm	Multi	2	$35.00
SPK-12SC-APC	(12) SC/APC	(12) Pigtails	9/125µm	900µm	Multi	3	$85.00
SPK-6SC-UPC	(6) SC/UPC	(6) Pigtails	9/125µm	900µm	Multi	2	$40.00
SPK-12SC-UPC	(12) SC/UPC	(12) Pigtails	9/125µm	900µm	Multi	3	$80.00
SPK-6ST-UPC	(6) ST/UPC	(6) Pigtails	9/125µm	900µm	Multi	2	$35.00
SPK-12ST-UPC	(12) ST/UPC	(12) Pigtails	9/125µm	900µm	Multi	3	$85.00
SPK-6LC-UPC	(6) LC/UPC	(6) Pigtails	9/125µm	900µm	Multi	2	$55.00
SPK-12LC-UPC	(12) LC/UPC	(12) Pigtails	9/125µm	900µm	Multi	3	$110.00
SPK-1SC/UPC	(1) SC/UPC	(1) Pigtails	9/125µm	900µm	Multi	1	$5.85
SPK-1ST/UPC	(1) ST/UPC	(1) Pigtails	9/125µm	900µm	Multi	1	$5.85

SPK-6SC-M6

SPK-12ST-M6

Multimode Pigtails

Stock ID	# 1 Connector	# 2 Connector	Cable Core/Clad	Cable Jacket	Cable color	Length (m)	Price
SPK-6SC-M6	(6) SC/UPC	(6) Pigtails	62.5/125µm	900µm	Multi	2	$35.00
SPK-12SC-M6	(12) SC/UPC	(12) Pigtails	62.5/125µm	900µm	Multi	3	$90.00
SPK-6ST-M6	(6) ST/UPC	(6) Pigtails	62.5/125µm	900µm	Multi	2	$45.00
SPK-12ST-M6	(12) ST/UPC	(12) Pigtails	62.5/125µm	900µm	Multi	3	$90.00
SPK-6LC-M6	(6) LC/UPC	(6) Pigtails	62.5/125µm	900µm	Multi	2	$55.00
SPK-12LC-M6	(12) LC/UPC	(12) Pigtails	62.5/125µm	900µm	Multi	3	$90.00
SPK-1STM-62	(1)	(1) Pigtails	62.5/125µm	900µm	Multi	1	$5.85
SPK-1STM-62	(1)	(1) Pigtails	62.5/125µm	900µm	Multi	1	$5.85

HOFFMAN® 2-Post Open Frame Racks

The 2-Post Open Frame Rack is a key element in a structured cabling system. With models sized to fit either 19 in. or 23 in. equipment, this floor mounted unit is particularly well suited for networking and data transmission applications.

Features

- Range of heights from 4 ft. to 9 ft. (24U to 58U) to match capacity requirements; 19 in. Rack Packages are 7 ft. high
- Side rails are tapped on both sides with 12-24UNC threads for quick installation
- EIA Universal 5/8 in. - 5/8 in. - 1/2 in. vertical mounting hole pattern matches industry standards

Two-Post Rack with shelves

Two-Post Rack with vertical cable management

ORDERING INFORMATION 2-POST RACKS

EDR19FM24U	*2-Post Open Frame 19 in. Rack, Steel Black, 24 RU, 4' height*	**$241.30**
EDR19FM45U	*2-Post Open Frame 19 in. Rack, Steel Black, 45 RU, 7' height*	**$212.40**
EVR19FM45U	*2-Post Open Frame 19 in. Rack, Aluminum, 45 RU, 7' height*	**$201.90**

HOFFMAN® 4-Post Open Frame Racks

4-Post Open Frame Racks provide the mounting security of a cabinet combined with the accessibility of an open frame rack. They are designed for use with LAN and WAN networking equipment, telephone and voice mail equipment, routers, servers, and switches. Their adjustable depth and solid mounting makes them particularly suited for heavy and deep equipment that may exceed the load rating of a standard 2-post rack.

The 4-post rack can be ganged with other 2- and 4-post racks to fit the application. All 19-in. rack accessories fit the 4-post racks as well.

Features

- EIA universal 5/8 in. - 5/8 in. - 1/2 in. spaced 12-24 tapped holes or square holes fit 19 in. rack equipment
- Compatible with 19-in. rack accessories
- Depth adjustable 450mm to 1050mm (17.7 in. to 41.3 in.) in 25mm (.98 in.) increments
- Available with nominal frame height of 1.8, 2.1, and 2.4m (6, 7, and 8 ft)
- RU markings on both front and back of tapped hole uprights make it easier to mount equipment
- Floor mounting holes predrilled at .750 in. diameter
- Obtain floor mounting hardware locally
- 12-24 rack mounting screws (pkg. of 20) included with tapped hole model
- Can be ganged with both 2- and 4- post open Includes complete assembly instructions

ORDERING INFORMATION 4-POST RACKS

E4DR19FM45U	*4-Post Open Frame Rack, Tapped Holes, Aluminum Black, 45 RU, 7' height*	**$769.80**
E4DRS19FM45U	*4-Post Open Frame Rack, Square Holes, Aluminum Black, 45 RU, 7' height*	**$661.20**

HOFFMAN® Open Frame Rack Accessories

ACCESSORIES SHELVES

ESH19V	*One-sided Vented Shelf, Steel Black*	**$66.45**
ESHDV19	*Double-sided Vented Shelf, Steel Black*	**$152.70**
ESH19S	*One-sided Solid Shelf, Steel Black*	**$68.28**
ESHD19	*Double-Sided Solid Shelf, Steel Black*	**$118.80**
ESHVA19	*Adjustable Shelf, Steel Black*	**$98.21**
ESH19KBM	*Keyboard/Monitor Shelf, Steel Black*	**$215.90**
ESHA19	*19 in. Single-sided Shelf, Brushed Aluminum*	**$93.52**
ESHDA19	*19 in. Double-sided Shelf, Brushed Aluminum*	**$163.30**
ESHDHDA19	*19 in. Double-sided Heavy Duty Shelf, Aluminum*	**$207.80**
E19SKBM	*19 in. Pull-out Keyboard Tray, Monitor Shelf, Steel Black*	**$281.90**
P19KBSM	*19 in. Pull-out Shelf for Mini Keyboard, Steel Black*	**$253.30**
P19KBPVT	*19 in. Pivoting Keyboard Shelf, Mouse Tray, Steel Black*	**$539.80**
P19SH68B	*Rack Mount Adjustable Shelf, Steel Black*	**$200.20**
P19SH810B	*Rack Mount Adjustable Shelf, Steel Black*	**$222.60**
P19SHP68B	*Sliding Equipment Shelf, Steel Black*	**$421.80**
P19SHP810B	*Sliding Equipment Shelf, Steel Black*	**$455.30**
PHCB	*Cable Manager Arm, Steel Black*	**$135.20**

ACCESSORIES CABLE MANAGEMENT

ECC6SF45UB	*Cable Manager, 45U, Single Side, Aluminum Black*	**$423.70**
ECC6DF45UB	*Cable Manager, 45U, Double Side, Aluminum Black*	**$528.80**
ECK19H	*19 in. Horizontal Cable Manager, Steel Black*	**$93.62**
ECK19HV	*Horizontal and Vertical Cable Organizer, Steel Black*	**$122.80**
ECKCVR19	*Horizontal Cable Manager Cover*	**$37.60**
ECT19	*Cable Trough, Steel Black*	**$54.96**
EWFT	*Waterfall Top, Steel Black*	**$79.81**

CableTek™ Cable Management Solution

Next Generation Horizontal & Vertical Management

See Next Page

HOFFMAN *RACK MOUNT ENCLOSURES*

CableTek™ Horizontal & Vertical Cable Management

Hoffman
A Pentair Company

Horizontal Manager

Horizontal and vertical cable managers designed as a system for streamlined appearance and improved functionality. Combination head 10-32 and 12-24 screws included for mounting.

Core Features

- **Snap-In Design**
  Allows temporary installation while fasters are installed.
- **Arrow Head Finger Design**
  For rapid cable assembly and easy insertion/removal.
- **High Capacity**
  Deep throat area allows for maximum cable densities.
  High-capacity front and back sides for Cat 5e,6 and 6A cables.
- **High Strength Radiuses And End Posts**
  Supports large number of cables at proper bend radius.
- **Double-Sided Removable Hinged Cover**
- **Pass Through Holes**
  Provide protection and allows cable routing from front to back.

Arrowhead fingers funnel cable into base and hold it securely

Offering

- 1 RU Single Sided
- 2 RU Single and Double Sided

Horizontal Tie Down Bar

Provides support, attachment, and proper bend radius for cables primarily on the back side of open frame racks. Secures standard cables, including CAT 5e, 6, and 6A cables. Made of steel with a black painted finish. Meets EIA 310-D standard and includes mounting fasteners.

Features

- Rigid steel construction
- Velcro tie down points at various angles
- Round edges prevent tearing of cable jackets

ORDERING INFORMATION Horizontal Manager & Tie Down Bar

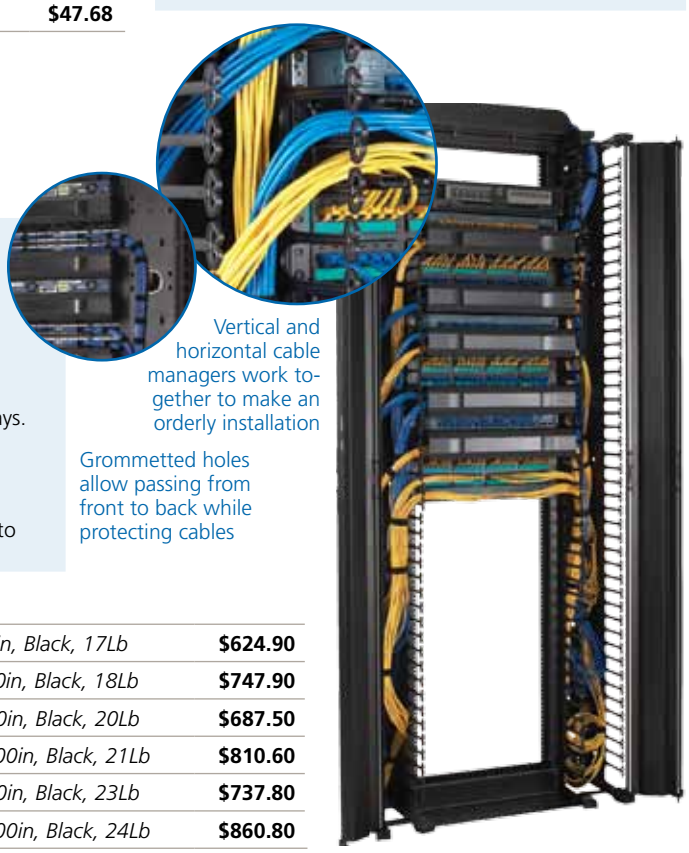
DCHS1	*Horizontal Cable Manager, 1RU, Single Side, Fits 19in Black, 5.0Lb*	**$74.03**
DCHS2	*Horizontal Cable Manager, 2RU, Single Side, Fits 19in Black, 6Lb*	**$75.28**
DCHD2	*Horizontal Cable Manager, 2RU, Double Side, Fits 19in Black, 9Lb*	**$79.05**
DCHB1	*Tie Down Bar With Lanced Loops, Fits 19in Steel/Black, 3.0Lb*	**$47.68**

Vertical Manager

For use with cabinets or 2- and 4-post open frame racks.
Advanced design accommodates CAT 5e, 6, and 6A cables.

Core Features

- **Integrates With New Horizontal System**
- **One-tool, One-hand Assembly** (no lifting to align holes)
- **Arrow Head Finger Design**
- **Provides Proper Bend Radius Management**
- **Easy To Remove Door**
  Hinges left or right with hinge points out of cable pathways.
  Opens 180˚ for full access or comes off completely
- **Moveable Posts And Gates On Rear**
  Extra strong to support large, heavy cable bundles.
  Extra posts and gates can be added as needed or moved to ideal location.



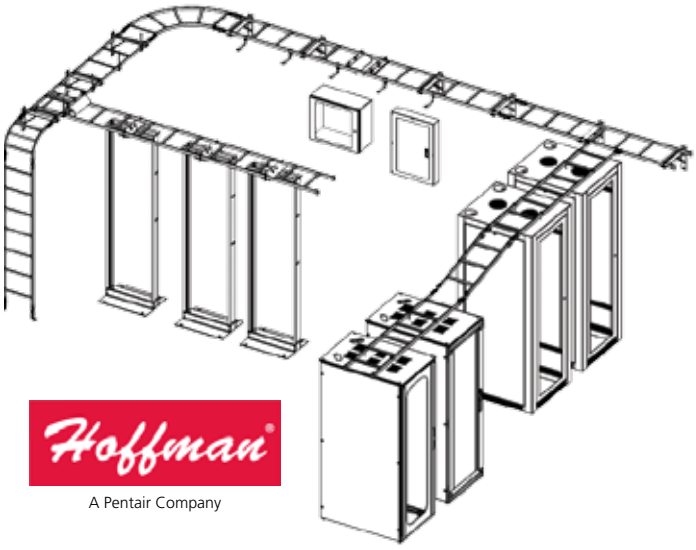
Vertical and horizontal cable managers work together to make an orderly installation

Grommetted holes allow passing from front to back while protecting cables

ORDERING INFORMATION Vertical Manager

DV6S7	*Vertical Cable Manager, 45RU, Single Side Finger, 6.00in x 84.00in, Black, 17Lb*	**$624.90**
DV6D7	*Vertical Cable Manager, 45RU, Double Side Finger, 6.00in x 84.00in, Black, 18Lb*	**$747.90**
DV10S7	*Vertical Cable Manager, 45RU, Single Side Finger, 10.00in x 84.00in, Black, 20Lb*	**$687.50**
DV10D7	*Vertical Cable Manager, 45RU, Double Side Finger, 10.00in x 84.00in, Black, 21Lb*	**$810.60**
DV12S7	*Vertical Cable Manager, 45RU, Single Side Finger, 12.00in x 84.00in, Black, 23Lb*	**$737.80**
DV12D7	*Vertical Cable Manager, 45RU, Double Side Finger, 12.00in x 84.00in, Black, 24Lb*	**$860.80**

HOFFMAN® Ladder Racks



Hoffman
A Pentair Company

Application

This cable runway system provides a convenient way to route cables through otherwise unused space while keeping them accessible for easy maintenance. A variety of straight and curved ladder rack sections accommodate virtually any room layout when used with the appropriate straight and angled splice kits. For extra stability, the system fastens to the floor, ceiling, or wall with available mounting hardware. Hardware to manage the cable run completes the system.

Features

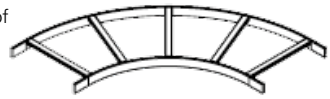
- Section cross members welded on 9-in. (229mm) centers
- Accessory adjustable cross members, butt-splice kits, and junction splice kits provide mounting flexibility

Ladder Rack Outside Bend Section

Provide a vertical change in direction. They are made of 1-1/2 in. x 3/8 in. (38mm x 8mm) 16 gauge tubular steel. Cross members are welded on the inside (inside bends) or outside (outside bends) of the section. Connect to straight sections with butt-splice kits. Designed for category 5 bend radius compliance.

LOB12BLK	*Ladder Rack Outside Bend, 12" (305mm), Steel Black*	**$133.60**

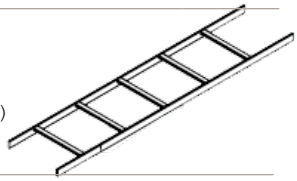
Ladder Rack 90° Horizontal Bend Section



Provide a 90° horizontal change in direction of the cable runway. Made of 1-1/2 in. x 3/8 in. (38mm x 8mm) steel with a painted or plated finish. Connect to straight sections with butt-splice kits. Designed for category 5e, 6, and fiber optic cable.

L90HB12BLK	*Ladder Rack 90° Horizontal Bend Section, 12", Steel Black,*	**$156.50**

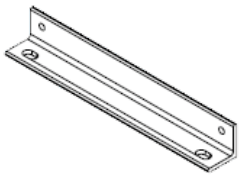
Ladder Rack Straight Sections



Supports cable on straight runs. Made of 1-1/2 in. x 3/8 in. (38mm x 8mm) 16 gauge tubular steel with a painted or plated finish. Nominal installed length is 10 ft. (3.05m). Each section is 9 ft. 11-1/2 in. (3.03m) long with cross members welded at 9 in. (229mm) intervals. Plated straight sections are UL Classified.

LSS12BLK	*Ladder Rack Straight Sections, Steel Black, 12"*	**$110.20**

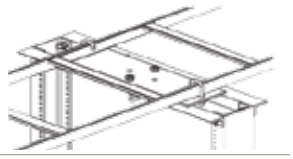
Ladder Rack Wall Angle Support



Includes one section of straight ladder rack and everything needed to fasten the ladder section to an open frame rack and to the wall. Ladder is 54 in. (1372mm) long by 12 in. (305mm) wide. All parts have a black paint finish. Order Open Frame Rack separately.

LWASK12BLK	*Ladder Rack Wall Angle Support, Steel Black*	**$32.82**

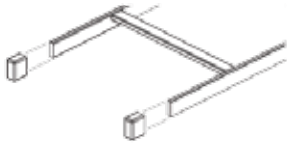
Rack to Runway Mounting Plate Kit



Secures ladder rack to the top of equipment racks. The plate is designed for mounting either parallel or perpendicular to the rack. Made of steel. Includes mounting hardware.

LRRMPBLK	*Rack to Runway Mounting Plate Kit, 6-12 in., Steel Black*	**$47.33**

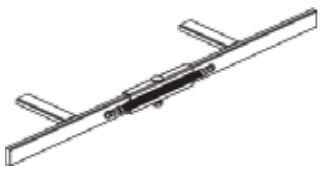
Ladder Rack End Cap Kit



Provides protective covering for ends of ladder rack. Made of black neoprene rubber.

LEC	*End Cap Kit (2 caps)*	**$7.82**

Ladder Rack Grounding Kit



Eight-inch braided copper grounding strap provides continuous ground across ladder rack splices. Use one for every two ladder rack sections. Requires drilling mounting screw holes in ladder rack stringers. Includes mounting hardware.

LGK	*Grounding Kit*	**$32.28**

Rack Runway Kit

Includes one section of straight ladder rack and everything needed to fasten the ladder section to an open frame rack and to the wall. Ladder is 54 in. (1372mm) long by 12 in. (305mm) wide. All parts have a black paint finish. Order Open Frame Rack separately.

Each Rack-to-Wall Kit includes one:
- LSS12BLK [54 in. (1372mm) long] Ladder Rack
- LWASK12BLK Wall Angle Support
- LRRMPBLK Rack to Runway Mounting Kit
- LEC End Cap Kit

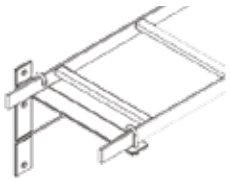
E45RUBKIT	*Rack Runway Kit*	**$152.90**

Butt-Splice Kit

Joins straight ladder rack sections, inside and outside bends, and 90-degree horizontal e-bends. Made of steel with a painted or plated finish. Each kit connects one section to another. Includes mounting hardware. The plated steel Butt-Splice Kit is UL Classified.

LBSKB	*Butt-Splice Kit, Steel Black (2 pieces)*	**$13.23**

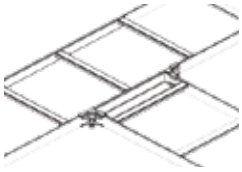
Triangle Support Bracket Kit



Supports ladder rack from wall. Bracket is made of steel. Brackets have predrilled mounting holes for two sizes of ladder rack. Requires surface mounting hardware (not included).

LTSB12BLK	*Triangle Support Bracket Kit Black, 12 in. (6 pieces)*	**$54.78**

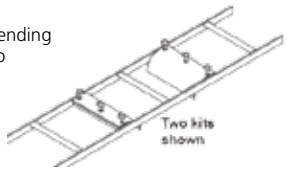
Junction Splice Kit



Connects two straight ladder rack sections at a 90-degree angle. Each kit connects one section to another. Kit components are zinc-plated steel. Includes mounting hardware. The Junction Splice Kit is UL Classified.

LJSK	*Ladder Rack Junction Splice Kit, Steel Zinc*	**$13.51**
LJSKB	*Ladder Rack Junction Splice Kit, Steel Black*	**$13.51**

Radius Drop Kit



Mounts over ladder rack cross member to provide bending radius when dropping cable. Includes cable spools to separate cable and all mounting hardware. Made of extruded aluminum.

LRD12BLK	*Radius Drop Kit, Black*	**$41.80**

WALL MOUNT *RACKS & CABINETS*

HOFFMAN® Hinged Wall-Mount Panel

12 gauge steel. Heavy duty hinges are welded to frame. Hinge provided for every two rack unit spacing for partial network installations. One rack unit model has half-size hinge. All units can be mounted with hinges on left or right side. Shipped fully assembled.

E19HPM1U	*Wall-Mount Panel, 1RU, 25Lb Load Rating*	**$37.29**
E19HPM2U	*Wall-Mount Panel, 2RU, 50Lb Load Rating*	**$48.73**

HOFFMAN® COMLINE® Wall-Mount Enclosures

Provides a secure enclosure for wireless equipment in both indoor and outdoor locations. Ideal for locations such as tunnels, floor vaults, marinas, outside walls, and rooftops. Fiberglass construction allows WiFi and WLAN signals to pass through the cabinet unimpeded. Light weight for easy mounting. Available with solid and window covers. Cabinets with solid doors are plenum rated. Covers are secured with screws, optional quick release latches are available.

ECL1006030	*COMLINE® Wall-Mount Enclosure, Hidden Hinge, 39.4" x 23.6" x 11.8", 3 Latch Pts., Aluminum Gray*	**$2,170.00**
ECL505020CH	*COMLINE® Wall-Mount Enclosure, Continuous Hinge, 19.7" x 19.7" x 7.9", 1 Latch Pt., Aluminum Gray*	**$1,567.00**

HOFFMAN® L-Box® Wall-Mount Cabinet

The DataCom L-Box® Wall-Mount Cabinet provides convenient mounting, storage, and protection for network equipment, patch panels, and connections. This versatile cabinet can meet many different network needs, including horizontal cable distribution, copper to fiber interface, cross connections, and consolidation point. The hinged, L-shaped door provides full access to the installed equipment. Fixed rack angles accommodate varying equipment sizes.

DBL242412G	*L-Box® Wall-Mount Cabinet, 6RU, 24.00" x 24.00" x 12.34", Steel Light Gray*	**$655.30**

HOFFMAN® Double-Hinged Wall-Mount Cabinets

AccessPlus™

ProTek™

AccessPlus™ Type 1 Double-Hinged Double-Hinged Wall-Mount Cabinets

12 gauge steel. Heavy duty hinges are welded to frame. Hinge provided for every two rack unit spacing for partial network installations. One rack unit model has half-size hinge. All units can be mounted with hinges on left or right side. Shipped fully assembled.

ProTek® DH Type 12 Double-Hinged Wall-Mount Cabinet

12 gauge steel. Heavy duty hinges are welded to frame. Hinge provided for every two rack unit spacing for partial network installations. One rack unit model has half-size hinge. All units can be mounted with hinges on left or right side. Shipped fully assembled.

EWMS362225	*AccessPlus Solid Door with Knockouts, 19 RU, 37.25" x 22.00" x 25.00", 1 Latch*	**$875.20**
EWMW242215	*AccessPlus Window Door with Knockouts 12 RU, 25.00" x 25.00" x 15.00", 1 Latch*	**$734.50**
EWMW242225	*AccessPlus Window Door with Knockouts 12 RU, 25.00" x 22.00" x 25.00", 1 Latch*	**$779.70**
EWMW362225	*AccessPlus Window Door with Knockouts, 19 RU, 37.25" x 22.00" x 25.00", 1 Latch*	**$892.90**
EWMW482225	*AccessPlus Window Door with Knockouts, 26 RU, 49.50 x 25.00" x 25.00", 2 Latches*	**$1,008.00**
EWMW362215	*AccessPlus Window Door with Knockouts 19 RU, 37.25" x 22.00" x 15.00", 2 Latches*	**$847.50**
EWMW482215	*AccessPlus Window Door with Knockouts, 26 RU, 49.50" x 25.00" x 15.00", 2 Latches*	**$961.40**
PTDHW362424G	*ProTek Cabinet DH with window, Type 12, 19 RU, 36.00" x 24.00" x 24.00", steel light gray*	**$1,507.00**

HOFFMAN® Swing-Out Rack

The 19 in. Swing-Out Rack offers a convenient solution for smaller networking equipment in areas where floor space is at a premium. Some of the networking equipment that is well-suited to this rack includes telephone and voice mail, routers, switches, punch-down panels, and patch panels. It facilitates component installation and future expansion without disturbing existing equipment or cabling. Shipped in three easy-to-assemble sections

E19SWM12U20	*19 in. Swing-Out Rack, 12 RU, 25.5in, 100Lb Load Rating*	**$275.00**
E19SWM20U20	*19 in. Swing-Out Rack, 20 RU, 39.5in, 150Lb Load Rating*	**$316.00**
E19SWM25U20	*19 in. Swing-Out Rack, 25 RU, 48.25"in, 175Lb Load Rating*	**$357.50**

HOFFMAN® WiFi Cabinet

Provides a secure enclosure for wireless equipment in both indoor and outdoor locations. Ideal for locations such as tunnels, floor vaults, marinas, outside walls, and rooftops. Fiberglass construction allows WiFi and WLAN signals to pass through the cabinet unimpeded. Light weight for easy mounting.Available with solid and window covers. Cabinets with solid doors are plenum rated. Covers are secured with screws, optional quick release latches are available.

D16148CHSCFGP	*Fiberglass WiFi Cabinet, Solid Door*	**$212.40**
D16148CHSCFGWP	*Fiberglass WiFi Cabinet, Window Door*	**$299.20**

HOFFMAN® D-Box™ Wall-Mount Cabinet

The DataCom D-Box™ Wall-Mount Cabinet provides convenient mounting, storage and protection for network equipment, patch panels, and connections. This versatile cabinet can meet many different network needs, including horizontal cable distribution, copper to fiber interface, cross connections, and consolidation point. The hinged door provides convenient access, and a combination of fixed and rotating rack angles accommodates varying equipment sizes. A full line of accessories facilitates enclosure and equipment installation.

DBS36248G	*DataCom D-Box™ Wall-Mount Cabinet, 4 RU, 36.00" x 24.00" x 8.34", Steel Light Gray*	**$639.70**

HOFFMAN® Wall-Mount Cabinets

ProTek® Type 4 and Type 12 Wall-Mount Cabinet

These wall-mounted cabinets are ideal for protecting 19 in. network equipment from falling dirt, splashing water, dust, and other contaminants. Both solid door and safety glass window door models are plenum rated.

PTDW242424B	*ProTek® Type 12 Wall-Mount Cabinet, 12 RU, 24 x 24 x 24, Black*	**$1,010.00**
PTDS362424G4	*ProTek® Type 4 Solid Door Wall-Mount Cabinet, 19 RU, 36 x 24 x 24, Steel Gray*	**$1,032.00**

HOFFMAN® Server Cabinets

PROLINE® Server Cabinet

AC Ready Cabinet

This pre-assembled package accommodates the most up-to-date server requirements. The 1200 and 2000mm nominal heights along with the 900, 1000, 1100, and 1200mm nominal depths give the flexibility needed to protect the servers while maximizing control room space utilization.

PSC1269B	*PROLINE® Server Cabinet, Steel Black, 24 RU, 1200mm x 600mm x 900mm*	**$3,182.00**
PSC2069B	*PROLINE® Server Cabinet, Steel Black, 42 RU, 2000mm x 600mm x 900mm*	**$3,602.00**
PSC20610B	*PROLINE® Server Cabinet, Steel Black, 42 RU, 2000mm x 600mm x 1000mm*	**$3,602.00**
PSC20611B	*PROLINE® Server Cabinet, Steel Black, 42 RU, 2000mm x 600mm x 1100mm*	**$3,828.00**
PSC20610BAC	*PROLINE® Type 12 Voice/Data and Server Cabinets, AC Ready Voice Data, 2000 x 700 x 800, 42 Rack Units, Tapped Hole Type*	**$4,236.00**
PSC20610B	*PROLINE® Server Cabinet, RAL 9005 Black, 24 Rack Units, 1200mm x 600mm x 1000mm*	**$3,602.00**
PDCP2088B	*PROLINE®Voice/Data Cabinet Package, Black, RAL 9005, 42 Unit Racks, 78.78" x 31.5" x 31.5"*	**$3,067.00**

Networking PC Cabinet

These Hoffman Type 1 Networking PC Cabinets are designed to house remote computers that are used for data entry and LAN and WAN access. They provide security from unauthorized access as well as physical protection. Ideal applications include light industrial, warehouse, electronic assembly, and other applications where remote network access is required.

ENC1776PC	*19-in. Networking PC Cabinet, 68.98" x 27.55" x 23.62"*	**$2,288.00**

DataCom SOHO Cabinet

These Hoffman DataCom SOHO Cabinets are designed to house LAN and WAN networking equipment, phone and voice mail equipment, and servers in an office environment. They are easily adapted to many different applications using Hoffman rack accessories and fan kits. Factory-installed casters provide mobility for equipment access and upgrades.

ENC766SH	*DataCom SOHO Cabinet, 600mm deep, 11 RU*	**$1,695.00**

Net Series Communication and Server Cabinets

The Net Series cabinets economically house 19 or 23 in. equipment that supports LAN, WAN, phone, and voice mail equipment and servers in an indoor environment. Multiple sizes, designed-in cabinet adaptability, and selected accessories provide maximum application flexibility.

NC1268	*Communication Cabinet, 23 Rack Units, 1245mm x 600mm x 800mm*	**$1,718.00**
NC2178	*Communication Cabinet, 43 Rack Units, 2134mm x 700mm x 800mm*	**$1,806.00**
NCW2178	*Communication Cabinet,Window Door, 43 Rack Units, 2134mm x 700mm x 800mm*	**$1,894.00**
NCW2188	*Communication Cabinet,Window Door, 43 Rack Units, 2134mm x 800mm x 800mm*	**$1,894.00**
NS2169	*Server Cabinet, 43 Rack Units, 2134mm x 600mm x 900mm*	**$2,243.00**
NS21610	*Net Series Server Cabinet Package, 43 Rack Units, 2134mm x 600mm x 1000mm*	**$2,312.00**
NS21611	*Server Cabinet, 43 Rack Units, 2134mm x 600mm x 1100mm*	**$2,329.00**

CABINET ACCESSORIES

D19FVT69B	*Shelf, vented, 19 in. tool-less, Black, 24.00 - 35.50*	**$225.90**
D19FVT912B	*Tool-less Vented Shelf for Square Hole Rack Angles, 900-1200mm nominal depth*	**$248.50**
D19BPT1RU	*Snap-in Blanking Panel, 1 RU*	**$105.60**
D19BPT2RU	*Snap-in Blanking Panel, 2 RU*	**$124.30**
P19SHP68B	*Pullout solid shelf, black, Max. pullout 17.00 in.; 16.72 in. deep, fits rack angle depth to 37.4 in.*	**$421.80**
P19SH68	*Rack Mount Adjustable Shelf, Solid 19 in. Gray, Fits Enclosure Depth Up To 31.50"*	**$198.40**
P19SH810B	*Rack Mount Adjustable Shelf, Solid 19 in. Black, Fits Enclosure Depth Up to 39.37"*	**$222.60**
A19KBC2B	*Keyboard Compartment, 2 RU*	**$537.70**
AS1032	*Nickel-Plated Screw (Pkg. of 20) #10-32 x .75 Truss Head*	**$18.17**
AS1032250	*Screw Package, Silver 10-32 x 5/8 in. combo head, 250pcs*	**$123.80**
ES1224	*Screw Package, Silver 12-24 x 1/2 in. combo head 20pcs*	**$13.67**
ES1224250	*Screw Package, Silver 12-24 x 1/2 in. combo head 250*	**$125.50**
ES1224B	*Screw Package, Black 12-24 x 1/2 in. combo head 20pcs*	**$13.13**
ES1224B250	*Screw Package, Black 12-24 x 1/2 in. combo head 250*	**$125.50**
P1032CN	*Silver 10-32 cage nut 20*	**$24.57**
P1224CN	*Silver 12-24 cage nut 20*	**$36.71**
P1032CN250	*Silver 10-32 cage nut 250*	**$270.50**

MEDIA CONVERTERS & ETHERNET SWITCHES

TX TO FX MEDIA CONVERTERS

10/100BASE-TX TO 100BASE-FX MEDIA CONVERTER

The FOM-1100 series are our most popular media converters. Featuring one fiber port with SC, ST or FC connector and one twisted pair port with a RJ-45 Connector. Usable as a stand-alone unit or as a slide–in module to the 19" converter rack (14 bays) for use in a central wiring cabinet. At the speed and price our 1100 units can't be beat.

Standards:	IEEE802.3u 100Base-TX/FX
UTP Cable:	Cat. 5 cable and up to 100m
Fiber Cable:	50/125, 62.5/125 or 100/140m MM 8.3/125, 8.7/125, 9/125 or 10/125 µm SM
Data Transfer:	100Mbps auto-duplex-negotiation 100Mbps for half-duplex mode 200Mbps for full-duplex mode
Ambient Temp:	0~50°C
Humidity:	5-90%
Dimension:	140mm x 110mm x 30mm (Inner power supply) 94mm x 70mm x 26mm(External power supply)
Certification:	ROHS, CE Mark

ORDERING INFORMATION

MC-1102M	*Multimode RJ45/SC, 1310nm, 3 db, 2KM*	**$89.00**
MC-1125S	*Singlemode RJ45/SC, 1310nm, 0.5 db, 25KM*	**$118.40**
MC-1140S	*Singlemode RJ45/SC, 1310nm, 0.5 db, 40KM*	**$129.50**
MC-1160S	*Singlemode RJ45/SC, 1310nm, 0.5 db, 60KM*	**$148.00**
MC-11100S	*Singlemode RJ45/SC, 1550nm, 0.25 db, 100KM*	**$525.00**
MC-1220W1	*WDM, TX1550/RX1310, 0.5 db, 20KM*	**Call for price**
MC-1220W2	*WDM, TX1310/RX1550, 0.5 db, 20KM*	**Call for price**

1000BASE-TX TO 1000BASE-FX MEDIA CONVERTER

Standards:	IEEE802.3z AB 1000Base-T, 1000Base-SX/LX
UTP Cable:	Cat. 5 cable and up to 100m
Fiber Cable:	1000 SX: 50/125, 62.5/125 or 100/140µm MM
Fiber:	1000 LX: 8.3/125, 8.7/125, 9/125 or 10/125µm SM 1000 Full-duplex at Auto or Force-mode
Data Transfer:	2000Mbps for Full-duplex at 1000Mbps Speed
Ambient Temp:	0~50°C
Humidity:	5-90%
Dimension:	26.2mm x 81mm x 105mm
Certification:	ROHS, CE Mark

FOM-2100 Series Gigabit Media Converter supports two types of media for network connection such as 1000Base-TX and 1000Base-SX/LX fiber.

ORDERING INFORMATION

MC-2100M	*Multimode RJ45/SC, 850nm, 3 db, .5KM*	**$359.00**
MC-2120S	*Singlemode RJ45/SC, 1310nm, 0.5 db, 20KM*	**$407.00**
MC-2160S	*Singlemode RJ45/SC, 1550nm (DFB), 0.25 db, 60KM*	**$500.00**
MC-2180S	*Singlemode RJ45/SC, 1550nm (DFB), 0.25 db, 80KM*	**$728.00**
MC-3120W1	*WDM, TX1550/RX1310nm, 0.5 db, 20KM*	**Call for price**
MC-3120W2	*WDM, TX1310/RX1550nm, 0.5 db, 20KM*	**Call for price**

10/100/1000BASE-TX TO 1000BASE-FX MEDIA CONVERTER

Standards:	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3z/ab 1000Base-T, IEEE802.3x full-duplex flow control, 1000Base-SX/LX
UTP Cable:	Cat. 5 cable and up to 100m
Fiber Cable:	1000 SX: 50/125, 62.5/125 or 100/140µm MM 1000 LX: 8.3/125, 8.7/125, 9/125 or 10/125µm SM
Data Transfer:	2000Mbps for Full-duplex at 1000Mbps Speed
Ambient Temp:	0~50°C
Humidity:	5-90%
Dimension:	26.2mm x 81mm x 105mm
Certification:	ROHS, CE Mark

With link fault pass through (LFP) in TX/FX converter application, link status on one port is propagated to the other port to notice the remote nodes. In addition, both converters will be with forced mode on the TP port and with SC fiber port.

ORDERING INFORMATION

MC-2200M	*Multimode RJ45/SC, 850nm, 3 db, .5KM*	**$345.00**
MC-2220S	*Singlemode RJ45/SC, 1310nm, 0.5 db, 20KM*	**$450.00**
MC-2260S	*Singlemode RJ45/SC, 1550nm (DFB), 0.25 db, 60KM*	**$535.00**
MC-2280S	*Singlemode RJ45/SC, 1550nm (DFB), 0.25 db, 80KM*	**$760.00**
MC-3220W1	*WDM, TX1550/RX1310nm, 0.5 db, 20KM*	**Call for price**
MC-3220W2	*WDM, TX1310/RX1550nm, 0.5 db, 20KM*	**Call for price**

10/100MBPS MANAGED MEDIA CONVERTERS

Standards:	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3z/ab 1000Base-T, IEEE802.3x full-duplex flow control, 1000Base-SX/LX
UTP Cable:	Cat. 5 cable and up to 100m
Fiber Cable:	1000 SX: 50/125, 62.5/125 or 100/140µm MM 1000 LX: 8.3/125, 8.7/125, 9/125 or 10/125µm SM
Data Transfer:	2000Mbps for Full-duplex at 1000Mbps Speed
Ambient Temp:	0~50°C
Humidity:	5-90%
Dimension:	26.2mm x 81mm x 105mm
Certification:	ROHS, CE Mark

This Converter is a 10/100Base-TX auto negotiation and auto MDI/MDIX cable selection Fast Ethernet Media Converter with intelligent network management that translates transmission signals from a twisted-pair 10Base-T or 100Base-TX cable to 100Base-FX fiber optic cable. It enables network managers and network operators to quickly isolate problems without visiting multiple wiring closets, avoiding expensive downtime. With its SNMP manager, the user can monitor and configure the Copper Port and Optical Port of center chassis and remote standalone easily.

ORDERING INFORMATION

MC-M1100M	*Multimode SC/PC, 1310nm, .5KM, 220VAC power supply*	**Call for price**
MC-M1125S	*Singlemode SC/PC, 1310nm, 25KM, 220VAC power supply*	**Call for price**
MC-M1225SW	*Singlemode & WDM SC/PC, TX-1310nm, 25KM*	**Call for price**
MC-1240SW	*Singlemode & WDM SC/PC, TX-1310nm, 40KM*	**Call for price**

ETHERNET SWITCHES

Features

- 2 or 4 port 10/100M RJ-45
- 1 port 100Base-Fx (singlemode/multimode/wdm) optical port
- Store and forward mode
- 10/100M auto-negotiation, maximum speed to 20/200M (full-duplex)
- Supports IEE 802.3z full-duplex flow control & back pressure half-duplex flow control
- Supports MAC self-learning
- Automatic MDI/MDI-X configuration
- LED status of FX TX1, TX2, TX3, TX4 link and power on diagnosis function

ORDERING INFORMATION

ES-1100M2	*2 port 10/100Mbps, 1XSC Multimode Fiber Switch*	**$159.00**
ES-1125S2	*2 port 10/100Mbps, 1X SC Singlemode 25KM Fiber Switch*	**$229.00**
ES-1125W2	*2 port 10/100Mbps, 1X BIDI SC WDM 25KM Fiber Switch*	**Call for price**
ES-6000M4	*4 port 10/100Mbps, 1X SC Multimode Fiber Switch*	**$329.00**
ES-6025S4	*4 port 10/100Mbps, 1X SC Singlemode 25KM Fiber Switch*	**$606.00**
ES-6025W4	*4 port 10/100Mbps, 1X BIDI SC WDM 25KM Fiber Switch*	**Call for price**

SINGLEMODE AND MULTIMODE MEDIA CONVERTERS

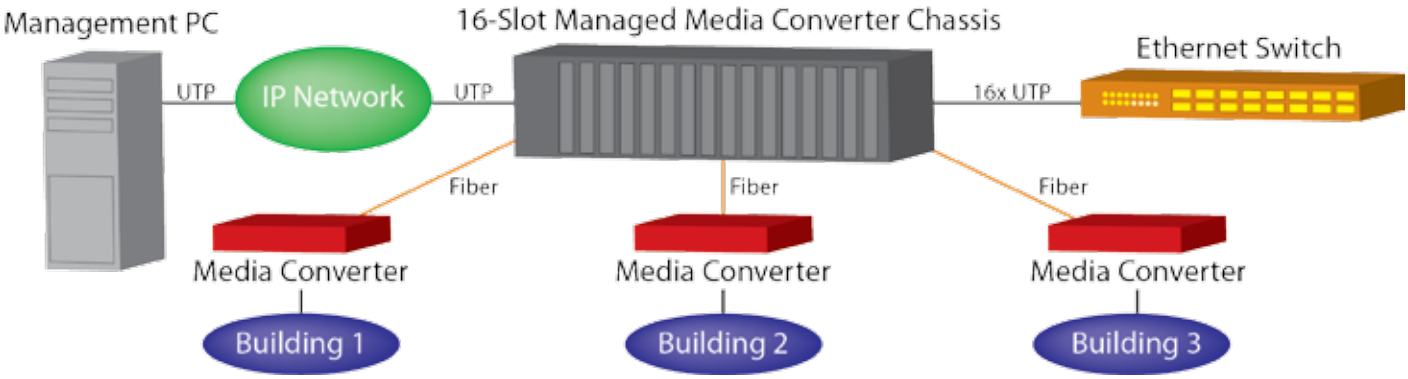
The 100M Single and Multi-Mode Converter conducts the transparent conversion between the media of single and multi-mode optical fiber. It may switch over among 850nm, 1310nm multi-mode fiber (2km) and 1310, 1550nm single mode fiber (120km) and support 100m quick Ethernet. It is widely used in the interlinking and data communication fields of LAN and WAN and the single unit may be used for the single and multi-mode conversion.

Standards:	Conforms to the IEEE802.3u 100BASE-TX/FX
Fiber Cable:	FX connectors are all SC
Data Transfer:	2000Mbps for Full-duplex at 1000Mbps Speed
Ambient Temp:	0-65°C
Humidity:	5-90%
Dimension:	94mm x 70mm x 26mm

ORDERING INFORMATION

MC-1020MS	*Multimode to Singlemode, 1310/1550, SC, 2KM/120KM*	**$277.50**
MC-1020SS	*Singlemode to Singlemode, 1310/1550, SC, 0-120KM*	**Call for price**
MC-1020MW	*Multimode to WDM-mode, 1310/WDM, SC, 2KM/0-80KM*	**Call for price**
MC-2020MS	*Multimode to Singlemode, 850/1310, SC, 500m/0-80KM*	**Call for price**
MC-2020SS	*Singlemode to Singlemode, 1310/1550, SC, 0-120KM*	**Call for price**
MC-2020MW	*Multimode to WDM-mode, 850/WDM, SC, 500m/0-80KM*	**Call for price**

Typical Application



RACK MOUNT MEDIA CONVERTER CHASSIS

MANAGED 16-SLOT CHASSIS

LAN Port	For in-bound management
Console Port	For out-bound management
Slot Capacity	16 Slots for modular Media converter (Per slot DC Power Output: 1A @ + 5VDC)
Ambient Temperature	0~50C
Humidity	5~90%
Dimension	88(H) x 442(W) x 350(D) mm (mountable for 19-inch rack)

This 19-inch multi-media converter chassis is designed to accommodate 16 slide-in modules of various type of media converter at a central location for multiple segments cross connection. Users can transparently link backbone equipments such as switches, routers to LAN workgroup segments. Because each channel operates independently, new modules may be added as required. This flexibility allows the unit to grow with the network.

ORDERING INFORMATION

MCC-M16AC	*Managed 16-Slot Chassis for Modular Media converter, 100~240VAC Power Input, AC-DC Redundant Dual power*	**$510.00**
MCC-M16DC	*Managed 16-Slot Chassis for Modular Media converter, -48VDC, Telecom DC-DC Redundant Dual power*	**$390.00**

UNMANAGED 14/16-SLOT CHASSIS

Standards	IEEE802.3u 10/100Base-FX
Slot Capacity	14 or 16 Slots for Modular Media converter (Per slot DC Power Output: 1A @ + 5VDC)
Ambient Temperature	0~50C
Humidity	5~90%
Dimension	90(H) x 424(W) X 230(D) mm (mountable for 19-inch rack)

This multi-media converter chassis is designed to accommodate 14 or 16 slide-in modules of various type of media converter at a central location for multiple segment cross connection. Users can transparently link backbone equipments such as switches, routers to LAN workgroup segments. Because each channel operates independently, new modules may be added as required. This flexibility allows the unit to grow with the network.

ORDERING INFORMATION

MCC-16AC	*Unmanaged 16-Slot Chassis for Modular Media converter, 100~240VAC Power Input, AC-DC Redundant Dual power*	**$490.00**
MCC-14AC	*Unmanaged 14-Slot Chassis for Modular Media converter, 100~240VAC Power Input, AC-DC Redundant Dual power*	**$370.00**
MCC-16DC	*Unmanaged 16-Slot Chassis for Modular Media converter, 4-8VDC Power Input, Telecom DC-DC Redundant Dual power*	**$490.00**
MCC-14DC	*Unmanaged 14-Slot Chassis for Modular Media converter, 4-8VDC Power Input, Telecom DC-DC Redundant Dual power*	**$370.00**

Purchase Fully Loaded Chassis - Call For Details

WAVEREADY *MODULE SHELVES*

JDSU WAVEREADY 3100 1U, TWO MODULE SHELF

The JDSU WaveReady 3100 is a 1U, two-slot, rack-mount shelf that is ideally suited for remote terminal and stand-alone network applications. The WaveReady 3100 provides power, monitoring, cooling, and management for all available WaveReady 3000-series modules. The remote management capabilities of the unit lowers support costs while its low profile (1.75 inches) reduces space requirements, thus lowering operating expenditures. Its daisy-chaining capability offers pay-as-you-grow transition path up to five-module systems. This approach allows service providers to plan their capital expenditures in line with their budgets and customer demands. External interfaces on the backplane include a standard five-position terminal block, a DB-25 connector for aggregated major and minor alarm relays, one sensor input for each module, three DB-15 connectors for inter-shelf connection, and an RJ45 Ethernet connector for management connectivity. Power is supplied through a standard five-position terminal block for the DC version and IEC320 cables for the AC version.

Key Features

- Deployable in central or remote locations
- Offers low-profile, high-density dimensions: 1U (1.75 in) high with capacity for two WaveReady 3000 modules
- Offered in DC or AC versions; additional external AC-to-DC converters are available for DC model
- Supports up to three daisy-chainedWaveReady 3100 shelves
- Provides easy rear access to power distribution and alarms
- Manage Ethernet interface module remotely or locally via craft interface terminal or GUI using theWaveReady Node Manager

Applications

- Supports remote, daisy-chained shelves with one to five WaveReady 3000-series modules and a WaveReady communications module

ADDITIONAL PARTS

DMS-3100FAN02	*FAN MODULE*
DMS-3100AF000	*REPLACEMENT AIR FILTER KIT (FILTER AND HARDWARE)*
DMS-3100AFR00	*REPLACEMENT AIR FILTERS*
DMS-3100-PW02	*110 V AC TO -48 V DC POWER SUPPLY (1.25) FOR USE WITH DMS-31000DC002 SHELF*
DMS-3100-PW03	*90 TO 264 V AC, 47-63 Hz to -48 dc power supply, continental Europe power plug for use with DMS-3100DC004 shelf*
DMS-3100-PWR04	*90 TO 264 V AC, 47-63 Hz to -48 dc power supply, Great Britain power plug for use with DMS-3100DC004 shelf*

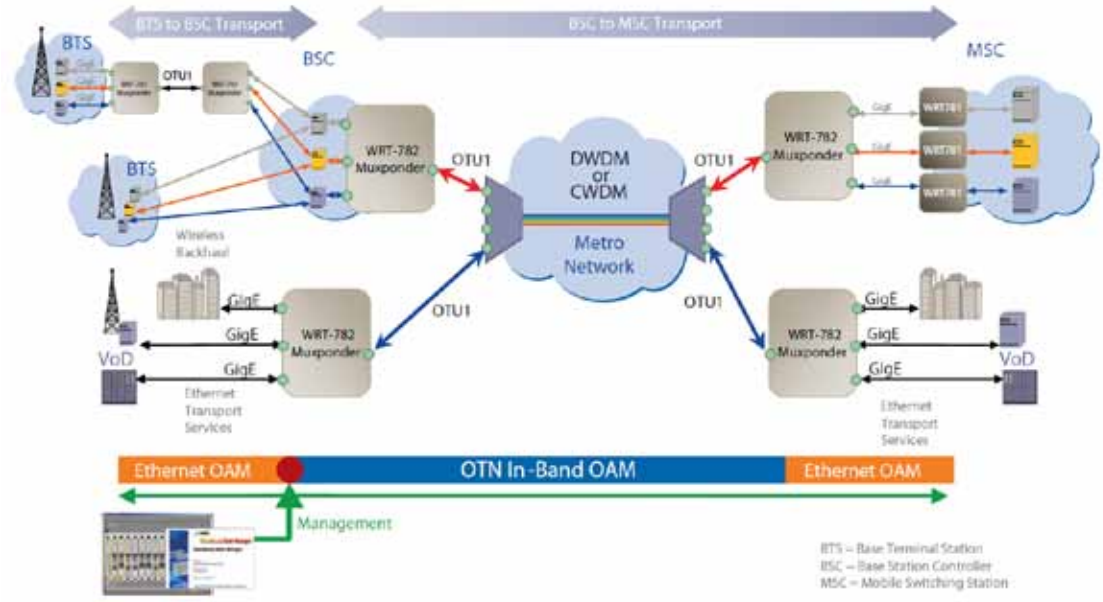
CALL FOR PRICING

Parameter	DMS-3100DC004 (DC)	DMS-3100AC002 (AC)
Electrical Characteristics DC supply voltage	-48 V DC standard five-position terminal block located on the rear of unit	N/A
AC power supply	N/A	AC power is supplied through two IEC 320 cables connected to rear of shelf
Size IU high (19-in config.) HxWxL	1.75 x 17.4 x 11.8 in	1.75 x 17.4 x 17 in
Weight		
Empty	4.1 lb	7.0 lb
With two modules	6.6 lb	9.5 lb
Enviromental Characteristics		
Operating Temp.	-5 to 55°C	0 to 40°C
Storage Temp.	-40 to 85°C	-40 to 85°C
Relative humidity (non-condensing)	5 to 95%	5 to 95%
Interface		
Configuration	DB-15 connectors for inter-shelf connection and communication. Subtending cable included.	
Local and remote management	RS232/DB-9 connector on front panel of optional WaveReady communications module for craft management of modules in the shelf or sudtending shelves. RJ45 Ethernet connector on backplane enabled when a WaveReady Communications Module is installed in the shelf or a parent shelf.	
Alarms	Dry contact on individual WaveReady modules. Relays open under normal operation. Relays closed when power is off and alarm is active. DB-25 connector on the backplane for aggregated major alarm relays and sensor input for each module.	
Front panel	Seven LEDs: Fan 1 (fan status); Fan 2 (fan stutus); DC Power A (power supply A); DC power B (power supply B); Shelf 1 (shelf configeration); Shelf 2 (shelf configuration); Shelf 3 (shelf configuration).	

ORDERING INFORMATION

DMS-3100DC004	*WAVEREADY 3100 1U, TWO MODULE SHELF*
DMS-3100AC002	*WAVEREADY 3100 1U, TWO MODULE SHELF*

CALL FOR PRICING



WaveReady 3500-F 14 slot Platform

The WaveReady 3500-F is a fan-cooled optical provisioning platform targeted for metro access/edge and Inter-Office Fiber (IOF) applications. It accommodates up to 13 WaveReady modules managed by a WaveReady communications module in slot C. The WaveReady 3500-F supports a broad range of WaveReady modules including the WSH-200 series transponders,WSH-500 series any-rate transponders,WRT-700 series multirate transponders, with and without protection, and single channel and multichannel DWDM amplifiers. It also supports DWDM and CWDM mux/demux cassettes and or one, two-, or four-channel OADM cassettes. The WaveReady 3500-F provides power, cooling and a communications bus for all modules in the shelf. The communications module handles monitoring, management and configuration of each module in the shelf. This design reduces installation time for individual WaveReady modules.

External interfaces include a standard five-position terminal block, two 25-pin DB-25 connectors for aggregated major and minor alarm relays, and sense inputs for each module. The WaveReady communications module allows local and remote management through a DB-9/RS-232 port on the front panel and three RJ-45 Ethernet connectors. Both TL1 and SNMP based management are supported. The WaveReady 3500-F comes configured for installation in 19-inch, 23-inch, or ETSI telecommunication racks.

Key Features:

- Front access for optical module and application provisioning, including fiber management
- Centralized alarming - dry contact, TL1, and SNMP
- Centralized management access through a WaveReady communications module - Ethernet three RJ-45 ports) and RS-232 (DB-9 connector)
- Multiple shelves can be cascaded using the Ethernet ports on a communications module
- NEBS level 3 Applications
- Wavelength services and metro optical access overlay
- Complete CWDM and DWDM systems
- Point-to-point or hub and spoke applications for wavelengths services in conjunction with the WaveReady 3100 platform Compliance
- FCC Part 15 (Class A); UL 60950 3rd Edition, December 2000; CAN/CSA-C22.2 No. 950-95; NEBS Level 3; GR-63-CORE; GR-1089-CORE; GR-78-CORE; CE; IEC 60950; ETS300-386; EN 55022 (Class B); 73/23/EEC

Specifications	Minimum	Typical	Maximum
Electrical Characteristics			
DC supply voltage		Redundent, -48V, front access	
Power connectors		Standard four-position terminal block, -48V, on the front, right-hand side of the shelf	
Fuses		Two 12 A indicating	
Overall power dissipation			
Fan unit	-	-	50 W
Fully populated shelf	-	240 W	330 W
Cooling		Provided through a fan tray with six replaceable fans located at the top shelf. The cooling unit allows a power dissipation of 20 W per slot	
Power cables	14 AWG	-	12AWG
Physical Dimensions			
19 in configuration	-	7U high	-
Size (H x W x L)		31.1 x 44 x 28 cm (12.2 x 17.4 x 11 in)	
Weight			
Empty		9.5 kg (21 lbs)	
When fully populated with WaveReady		34 kg (75 lbs)	
Fan weight		1.8 kg (4 lbs)	
Capacity		One communications module in slot C. Thirteen WaveReady modules in slots 1 to 13	
Enviromental Characteristics			
Operating ambient Temp	-5 ^{O}C	-	55 ^{O}C
Storage Temp	-40 ^{O}C	-	85 ^{O}C
Relative humidity (non-condensing)	5%	-	95%

ORDERING INFORMATION

DMS-3500FSE03	*WaveReady 3500-F 14 slot Platform*

CALL FOR PRICING

PACKETLIGHT *MODULE SHELVES*

10G WDM SOLUTIONS - PL-1000

The PL-1000 is a carrier class leading 1U Metro DWDM platform, for transport of 10G Data, Voice and Storage Applications, over dark fiber and WDM networks. PL-1000 is designed primarily to address the growing needs for high data capacity applications such as IPTV, Triple play and NGN which needs to be transported over the same existing or new fiber infrastructures. The PL-1000's capabilities, dimensions and competitive cost make it the ideal solution for evolving metro Ethernet networks, enterprise networks, campus environments and central office connectivity. The PL-1000 supports up to 4 high-speed 10G services. Each service is configured independently, using PacketLight's user-friendly Web-based management tool. Additionally, by stacking multiple PL-1000, customers can expand 4 wavelengths to up to 32 wavelength thus achieving high level of scalability and low initial investment in a pay-as-you grow architecture.

FEATURES

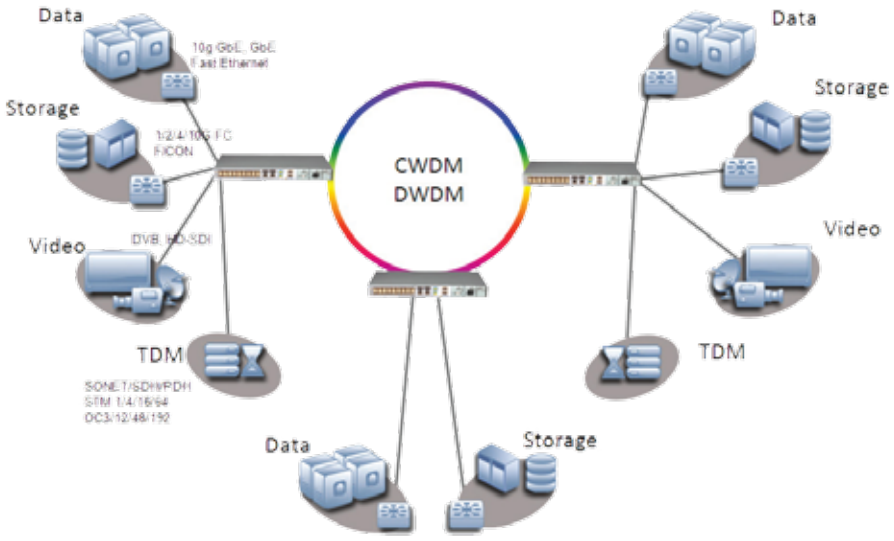
- Up to 4x10G protected services
- Flexible multirate Multi-Mode (MM) or Single Mode (SM) interfaces support
- 10G Eth WAN/LAN, STM64/OC192, OTN (OTU-2), 10G FC
- Two embedded Optical Supervisory Channels (OSC) for management
- Performance monitoring for STM64/OC192, 10G FC and 10G Eth WAN/LAN
- Integrated Mux/Demux and Optical Amplifier (EDFA)
- Mapping 10G Eth and STM64/OC192 services into OTN (OTU-2)
- Dual pluggable AC or DC power supplies and FAN unit
- Ring, point to point and regeneration topologies
- 1+1 facility protection
- Web GUI and SNMP and EMS management as well as 3rd party SNMP tools

System		DWDM Link	
Topology	Point-to-Point, Ring, Linear ADM	**Link Attenuation**	<4dB (Mux + DeMux)
Transport Network Medium	Metro CWDM/DWDM / Dark Fiber	**Optical Supervisory Channel**	1490nm, 1510nm
Software Upgrade	Traffic Hitless – dual image	**Optical Reach**	40, 80, 120, 200Km
Protection	1+1 Facility	**Optical Power Output**	-1dBm (min) to +2dBm (max)
Product Options		**Sensitivity**	-24dBm APD, -18dBm PIN
Transponder	850/1310nm to DWDM, 3R, 2/4 wavelengths Mux & Demux	**Optical Monitoring**	Tx & Rx power
Transpoder + Booster Amp	850/1310nm to DWDM, 3R, 2/4 wavelengths Mux Demux, 1/2 EDFA (Booster, Pre-Amp)	**Wavelength**	ITU-T G.694.1 Ch15 - 60, 100GHz spacing
Regenerator	DWDM to DWDM 3R, 4 wave-lengths 2 X Mux & 2 X Demux & 2 X EDFA	**Environmental**	
Physical Dimensions		**Operating Temperature**	-5o C to 50o C (+23o F to+122o F) Operational
Mounting	19", ETSI and 23"	**Humidity**	5% to 85% RHI
Weight	5.5Kg (Max)		
Size	1.77" (1 RU) (H) x 17.32"(W) x 9.05"(D) 44 mm (H) x 440mm (W) x 230 mm (D)		

ORDERING INFORMATION

FOM-PL-1000-001	*10G WDM Solutions - PL-1000*

CALL FOR PRICING



1G/2G/4G FC & FICON, ESCON, GBE

PL-1000E is a unique, all-in-one optical product supporting 8G FC, 10G, and sub-10G services. PacketLight solution is unprecedented with its rich feature set, Cost Effective, compact 1U chassis with low power consumption. PL-1000E is a leading CWDM/DWDM platform that provides maximum flexibility and scalability for fiber optic connectivity, it combines variety of services. PL-1000E allows to expand to 10G services by simply adding the needed pluggable optic modules (XFPs). This architecture provides true scalability at minimum possible cost. The PL-1000E supports the full spectrum of FC protocol rates: 1Gbps, 2Gbps, 4Gbps, 8Gbps and 10Gbps. Together with its extremely low latency, low power consumption, small foot print (1U, ETSI) and affordable cost PL-1000E is best in class CWDM/DWDM solution for connecting two data centers or back up sites. The PL-1000E is designed to support point-to-point, Linear ADM and Ring topologies with Facility protection. The PL-1000E is a highly integrated device, incorporating Mux/DeMux, EDFA and optical switch for both its transponder and regenerator modes, also enabling simple and cost effective upgrade of existing infrastructure to carry any type service.

FEATURES:

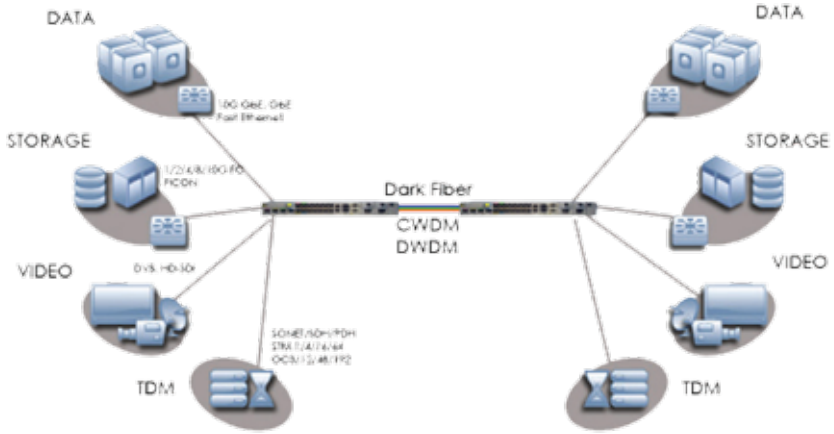
- Combines any service and common protocols from 2Mbps up to 10G services in the same 1U chassis
- Supports up to 4 sub 10G services in any mix- 1G/2G/4G FC & FICON, ESCON, Fast Ethernet, GbE, STM-1/OC-3, STM-4, OC-12, STM-16/OC-48, OTU1 (OTN),Video
- In addition, supports up to 4 services of 10G or 8G FC, 10G Eth, STM-64/OC-192 and optional OTU-2 OTN
- Performs bidirectional 3R on each transponder ensuring error free operation over distance
- Increase fiber utilization using 4xGbE Muxponder
- Low latency connectivity, ideal for trading applications and syn chronous Data Center Replication
- Remote management with both optical supervisory channels and in-band management uplinks
- Supports single and dual fiber connections
- Support for 1+1 facility protection
- Performance Monitoring

System		DWDM Link	
Topology	Point-to-point, Ring, Linear ADM Dual or Single Fiber	**Wavelength**	ITU-T G.694.1 Channels 15-60, 100GHz spacing
Transport Network Medium	Metro CWDM, DWDM & Dark Fiber	**Optical Supervisory Channel**	1490nm, 1510nm
Protection	1+1 Facility	**Optical Monitoring**	Tx & Rx power
Product Options		**Optical Output Power**	Sub 10G: 0dBm (min) to +4dBm (max) 8/10G: -1dBm (min) to +2dBm (max)
Transponder	850/1310nm to C/DWDM, 3R, 4/8 wavelengths Mux & Demux	**Sensitivity**	Up to 2.66Gbps: -28 dBm APD 4/8/10G: -24dBm APD, -14dBm PIN
Transpoder + Amp	850/1310nm to DWDM, 3R, 4/8 wavelengths Mux Demux, 1 EDFA (Booster, Pre-Amp)	**Optical Reach**	400Km for 1.25Gbps, 200Km for 2.66Gbps, 80Km for 4.25Gbps/8.5Gbps, 120km for 10Gbps
Muxponder	4x GbE 850/1310nm	**Link Attenuation**	<4dB (Mux + DeMux)
Optical Switch	1+1 OTS Facility Protection	**Physical Dimensions**	
CWDM Link		**Size**	1.77" (1 RU) (H) x 17.32"(W) x 9.05"(D) 45 mm (H) x 440mm (W) x 230 mm (D)
Wavelength	ITU-T G.694.2 1270-1610nm 20nm spacing	**Weight**	5.5Kg (Max)
Optical Supervisory Channel	For 8 Channels- 1310nm, 1330nm For 16 Channels- 1270nm, 1290nm	**Mounting**	19", ETSI and 23"
Optical Reach	120Km for 1.25Gbps, 80Km up to 4.25Gbps,	**Environmental**	
Optical Output Power	0dBm (min) to +5dBm (max)	**Operating Temperature**	-5o C to 50o C (+23o F to+122o F) Operational
Sensitivity	-28dBm APD, -18dBm PIN	**Humidity**	5% to 85% RHI
Optical Monitoring	Tx & Rx power		
Link Attenuation	<4dB (Mux + DeMux)		

ORDERING INFORMATION

FOM-PL-1000E-01	*1G/2G/4G FC & FICON, ESCON, GbE*

CALL FOR PRICING



PACKETLIGHT *MODULE SHELVES*

PASSIVE WDM SOLUTIONS - PL-300

The PL-300 family of products extend PacketLight's optical network solution capabilities by providing a wide range of passive optical modules. The PL-300 provides the needed optical layer functions of 4/8/16/32 DWDM wavelength Multiplexing, 4/8/16 CWDM wavelength Multiplexing, Optical Dispersion Compensation module (DCM), Optical Add and Drop (OADMs), splitter and combiners. The PL-300 interconnects seamlessly with PacketLight's products PL-400 and PL-1000 and third party WDM products to form cost effective high capacity DWDM and CWDM solutions. The PL-300 provides low granularity wavelengths add and drop capabilities and can be used to increase 4G and 10G solution reach.

Features

- Expansion of existing Fiber capacity with new services
- Building scalable high capacity pay as you grow optical networks
- Convergence of existing networks and new services over existing infrastructure
- Forming low cost fully passive optical solution, transparent to service rate & type
- Extending the optical reach with dispersion compensators
- Building cost effective add and drop networks

ORDERING INFORMATION

FOM-PL-300-0001	*Passive WDM Solutions - PL-300*

CALL FOR PRICING

DCM		**Environmental**	
Fiber Type	G.652	**Operating Temperature**	-5oC to +65oC (+23oF to +149oF) Operational
Fiber Span	20Km - 200Km	**Physical Dimensions**	
Wavelengths Range	1527nm-1567nm	**Size**	1.77" (1 RU) (H) x 17.32"(W) x 9.05"(D) 45 mm (H) x 440mm (W) x 220 mm (D)
Residual Dispersion	< +/- 2%	**Weight**	3.5Kg (Max)
Max Insertion Loss	3dB	**Splitters/Combiners**	
PMD	<1.2ps	**Insertion Loss - DWDM**	1.5dBm
Standard	ITU G.671	**Insertion Loss - CWDM**	0.8dBm
Max Insertion Loss	3dB	**Insertion Loss - 1310nm**	<1.5dBm
PMD	<1.2ps	**Standards**	ITU G.671
Standard	ITU G.671		

PL-300 CWDM

Standards	**ITU G.694.2, TU G.671**					
Description	**Order Code CWDM**	**# MUX WLs**	**COM Fiber**	**MUX 1 [nm]**	**MUX 2 [nm]**	**Insertion Loss**
CWDM 4ch Mux/Dmux	CWDM-1M-4W-1C-2F	4	Dual Fiber	1471-1531		<4db
CWDM 8ch Mux/Dmux	CWDM-1M-8W-1C-2F	8	Dual Fiber	1471-1611		<4db
CWDM 16ch Mux/Dmux	CWDM-1M-16W-1C-2F	16	Dual Fiber	1311-1611		<6db
2 x CWDM 4ch Mux/Dmux	CWDM-2M-4W-2C-2F	4	Dual Fiber	1471-1531	1471-1531	<4db
2 x CWDM 8ch Mux/Dmux	CWDM-2M-8W-2C-2F	8	Dual Fiber	1471-1611	1471-1611	<4db
2 x CWDM 16ch Mux/Dmux	CWDM-2M-16W-2C-2F	16	Dual Fiber	1311-1611	1311-1611	<6db
Single Fiber CWDM 8ch Mux (4 services)	CWDM-1M-8W-1C-1F	8	Single	1471-1611		<4db
Single Fiber CWDM 16ch Mux (8 services)	CWDM-1M-16W-1C-1F	16	Single	1311-1611		<6db
2 x Single Fiber CWDM 8ch Mux (2x 4 services)	CWDM-2M-8W-2C-1F	8	Single	1471-1611	1471-1611	<6db
2 x Single Fiber CWDM 16ch Mux (2x 8 services)	CWDM-2M-16W-2C-1F	16	Single	1311-1611	1311-1611	<6db

PL-300 DWDM

Standards	**ITU G.694.2, TU G.671**	**Spacing- 100GHz**			**Wavelengths Range- C Band**	
Description	**Order Code CWDM**	**# MUX WLs**	**COM Fiber**	**MUX 1 [nm]**	**MUX 2 [nm]**	**Insertion Loss**
DWDM 4ch Mux/Dmux	DWDM-1M-4W-1C-2F	4	Dual Fiber	CH28-CH31	MUX 2 [nm]	<4db
DWDM 8ch Mux/Dmux	DWDM-1M-8W-1C-2F	8	Dual Fiber	CH28-CH35		<4db
DWDM 16ch Mux/Dmux	DWDM-1M-16W-1C-2F	16	Dual Fiber	CH20-CH35		<6db
DWDM 32ch Mux/Dmux	DWDM-2M-32W-1C-2F	32	Dual Fiber	CH20-CH51	1471-1531	<7db
DWDM 40ch Mux/Dmux	DWDM-2M-40W-1C-2F	40	Dual Fiber	CH20-CH59	1471-1531	<7db
2 x DWDM 4ch Mux/Dmux	DWDM-2M-4W-2C-2F	4	Dual Fiber	CH28-CH31	CH28-CH31	<4db
2 x DWDM 8ch Mux/Dmux	DWDM-2M-8W-2C-2F	8	Dual Fiber	CH28-CH35	CH28-CH35	<4db
2 x DWDM 16ch Mux/Dmux	DWDM-2M-16W-2C-2F	16	Dual Fiber	CH20-CH35	CH20-CH35	<6db
Single Fiber DWDM 8ch Mux (4 services)	DWDM-1M-8W-1C-1F	8	Single	CH28-CH35		<4db
Single Fiber DWDM 16ch Mux (8 services)	DWDM-1M-16W-1C-1F	16	Single	CH20-CH35		<6db
Single Fiber DWDM 32ch Mux (16 services)	DWDM-1M-32W-1C-1F	32	Single	CH20-CH51		<7db
2 x Single Fiber DWDM 8ch Mux (2x 4 services)	DWDM-2M-8W-2C-1F	8	Single	CH28-CH35	1471-1611	<6db
2 x Single Fiber DWDM 16ch Mux (2x 8 services)	DWDM-2M-16W-2C-1F	16	Single	CH20-CH35	CH20-CH35	<6db
2 x Single Fiber DWDM 8ch Mux (2x 8 services) Red/Blue	DWDM-2M-16W-1C-1F	16	Single	CH21-CH36	CH45-CH60	<6db

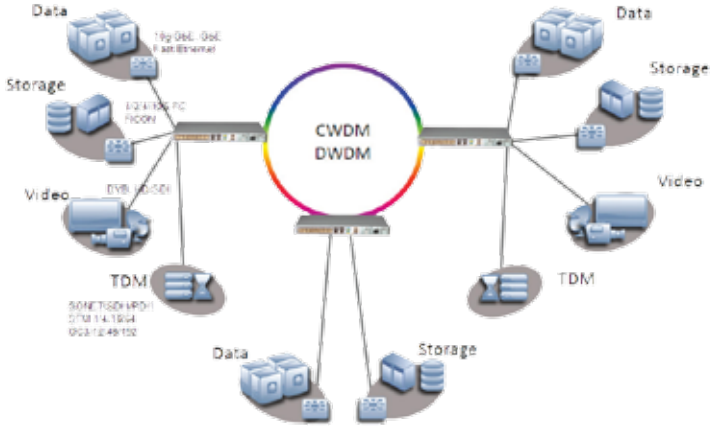
WDM SUB-10 SOLUTIONS - PL-400

Highly flexible metro C/DWDM platform for transport of storage, data, voice, and video applications over dark fiber and C/DWDM networks. PL-400 is designed primarily as an efficient C/DWDM transport device, and is typically deployed as a CLE (Customer Located Equipment) in enterprise campus environments and in central offices or as service demarcation point for dark fiber provider and carriers. The PL-400 supports up to 8 high-speed services (2Mbps–4.25Gbps). Each service is configured independently using PacketLight's user-friendly Web-based management tool.

FEATURES:

- CWDM/DWDM Multiplexing of 8 Multi-rate from 2Mbps up to 4.25G client interfaces
- Flexible multirate interfaces support
- GbE, Fast Ethernet, 1/2/4G FC, OC3/STM1, OC12/STM4, OC48/STM16, OTU-1, ESCON, DVB-ASI, SMTP-SDI
- Support for SNMP management and integration into EMS and 3rd party management tools
- Scalable Solution up to 32 Wavelengths
- Built-in EDFA, Mux/DeMux and management channels
- Built-in Performance Monitoring (FC, GbE, STM1/4/16, OC3/12/48)
- Bidirectional 3R ensuring error free operation over distance
- Up to two sets of 4:1 GbE Muxponders
- Supports ring, point to point and regeneration topologies
- Support 1+1 facility protection
- Two embedded OSC for management

System		DWDM Link	
Topology	Point-to-point, Ring, Linear ADM Dual or Single Fiber	**Wavelength**	ITU-T G.694.1 Channels 15-60, 100GHz spacing
Muxponder	2x 4GbE 850/1310nm	**Optical Supervisory Channel**	1490nm, 1510nm
Transport Network Medium	Metro CWDM/DWDM / Dark Fiber	**Optical Reach**	400Km for 1.25Gbps, 200Km for 2.66Gbps, 80Km for 4.25Gbps
Software Upgrade	Traffic Hitless – dual image	**Optical Power Output**	0dBm (min) to +4dBm (max)
Protection	1+1 Facility	**Sensitivity**	-28 dBm APD
Product Options		**Optical Monitoring**	Tx & Rx power
Transponder	850/1310nm to C/DWDM, 3R, 4/8 wavelengths Mux & Demux	**Link Attenuation**	<4dB (Mux + DeMux)
Transpoder + Booster Amp	850/1310nm to DWDM, 3R, 4/8 wavelengths Mux Demux, 1/2 EDFA (Booster, Pre-Amp)	**CWDM Link**	
Regenerator	C/DWDM to C/DWDM 3R, 8 wavelengths 2X Mux &, 2X Demux & 2X EDFA	**Wavelength**	ITU-T G.694.2 1270-1610nm, 20nm spacing
Physical Dimensions		**Optical Supervisory Channel**	For 8 Channels- 1310nm, 1330nm For 16 Channels- 1270nm, 1290nm
Size	1.77" (1 RU) (H) x 17.32"(W) x 9.05"(D) 45 mm (H) x 440mm (W) x 230 mm (D)	**Optical Reach**	120Km for 1.25Gbps, 80Km up to 4.25Gbps
Weight	5.5Kg (Max)	**Optical Power Output**	0dBm (min) to +5dBm (max)
Mounting	19", ETSI and 23"	**Sensitivity**	-28dBm APD, -18dBm PIN
Environmental		**Optical Monitoring**	Tx & Rx power
Operating Temperature	-5o C to 50o C (+23o F to+122o F) Operational	**Link Attenuation**	<4dB (Mux + DeMux)
Humidity	5% to 85% RHI		



ORDERING INFORMATION

FOM-PL-400-0001	*WDM Sub-10 Solutions - PL-400*

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NETWORK CAMERAS

i-Pro intelligent and professional IP video security solutions make your network better. Our new i-Pro Series combines Panasonic performance and quality with the latest advancements in IP technology. And with a growing line of IP cameras, network video recorders, video servers, and management software, you can design the system configuration that best meets your needs today – with an eye on expansion tomorrow. Now that's security you can take into the future. Panasonic i-Pro. It's what's on your network that counts.

PANASONIC WEATHER RESISTANT DOME NETWORK CAMERA

WV-NW964

Features

- Super Dynamic III delivers 128x dynamic range ensuring accurate image reproduction in any environment
- Progressive output for smooth images
- 360° endless panning (0.065°/s - 400°/s)
- 0.5 lux min. illumination color, 0.04 lux B/W
- Auto tracking, auto image stabilizer
- Digital slip ring ensures picture quality
- Dual MPEG-4 and JPEG streaming
- 30x optical zoom, 10x electronic (300x total)
- Built-in SD memory card slot for FTP back-up

Super Dynamic III
Weather Resistant Dome Network Camera

ORDERING INFORMATION

WV-NW964	*Weather Resistant Dome Network Camera*	**$3,990.00**

The Package includes: WV-NW964 Camera, Operating Instructions (1 pc), Warranty Card (NTSC only) (1 pc.), CD-ROM (1 pc.), 8P Alarm Cable (1 pc.), Connector for 24 V AC (1 pc.), Front/rear sun shield (1 set), Front/rear sun shield mounting screws (2 pcs), Waterproof cap (3 pcs), RJ-45 junction connector (1 pc.). The IP setup software, the viewer software and the network operating instructions (PDF) are included on the CD-ROM.

OPTIONAL ACCESSORIES AND SUPPLIES

WV-Q122	*Wall Mount Bracket*	**Call for price**

PANASONIC DOME NETWORK CAMERA

WV-NS202A

Features

- Super Dynamic III provides 128x dynamic range ensures accurate image reproduction in any environment
- Progressive output for smooth images of moving objects and superb color reproduction
- 22x optical zoom for accurate capture of objects from long distances
- PoE for transmission of power and signals over the same data cable
- 0.7 lux min. illumination color, 0.5 lux B/W
- Drag-in SD memory card slot for FTP back-up
- Video Motion Detector with 4 programmable detection areas and 3 sensitivity levels
- Auto tracking: Pan and tilt automatically controlled to keep moving objects centered in screen

Call 877.529.9114 for FiberOptic.com's full line of Panasonic Equipment!

Super Dynamic III
Dome Network Camera

ORDERING INFORMATION

WV-NS202A	*Dome Network Camera*	**$1,540.00**

The Package includes: WV-NS202A Camera, CD-ROM (1 pc), Installation Guide (1 pc.), The IP setup software, the viewer software and the network operating instructions (PDF) are included on the CD-ROM. (1 pc.), Mount Bracket (w/safety wire) (1 pc.), Connector for 24 V AC Fixing Screw (2 pc.), Decorative Cover (1 pc.), DC 12 V Power Cord Plug (1 pc.), Code Label (1 pc.).

OPTIONAL ACCESSORIES AND SUPPLIES

WV-Q153	*Inner Dome Cover*	**$60.00**	
WV-Q152C	*Clear Ceiling Mount Brackets*	**$150.00**	
WV-Q152S	*Smoke Ceiling Mount Brackets*	**$150.00**	
WV-Q151C	*Clear Embedded Ceiling Mount Brackets*	**$250.00**	
WV-Q151S	*Smoke Embedded Ceiling Mount Brackets*	**$250.00**	
WV-Q150C	*Clear Wall Mount Brackets*	**$260.00**	
WV-Q150S	*Smoke Wall Mount Brackets*	**$260.00**	
WV-Q105	*Direct Ceiling Installation*	**$125.00**	
PODV7CWNS	*Outdoor Wall Mount Vandal Housing*	**$905.00**	

PANASONIC NETWORK DISK RECORDER

WJ-ND300A

Network Disk Recorder with expandable capacity for digital image data from up to 32 Network Cameras

Features

- MPEG-4 and JPEG multi format.
- Up to 32 network cameras can be connected and recorded
- Various Recording Mode
- Various alarm sources
- Panasonic Camera control
- Flexible Playback Controls
- Various display mode
- Eight Quad screens are fully programmable
- Filtered Search

OPTIONAL ACCESSORIES AND SUPPLIES

WJ-NDB301	*Optional RAID5 Board*	**$1,238.00**	
WJ-HDE300/1000	*Extension Unit (1000GB)*	**$4,451.00**	

ORDERING INFORMATION

WJ-ND300A/1000V	*Network Disk Recorder, 1000GB Capacity (500GB Base Removable Drive)*	**$7,760.00**
WJ-ND300A/2000V	*Network Disk Recorder, 2000GB Capacity (500GB Base Removable Drive)*	**$9,060.00**

The Package includes: WJ-ND300A Disk Recorder, CD-ROM, Installation Guide, Power Cord for NTSC model, Power Cord for PaL model, Rack Mount Bracket (2 pc.), Rack Mount Bracket Fixing Screw (4 pcs.), Hard Disk Drive Fixing Screw (12 pcs.).

PANASONIC NETWORK VIDEO RECORDER

WJ-ND200 NVR WITH TWO, 160GB REMOVABLE HDDS (TOTAL CAPACITY=320GB)

Network Video Recorder with removable HDD for digital image data from up to 16 Network Cameras

Features

- MPEG-4 and JPEG multi format.
- Up to 16 network cameras can be connected and recorded
- Various Recording Mode
- Various alarm sources
- Panasonic Camera control
- Flexible Playback Controls
- Various display mode
- Four Quad screens are fully programmable
- Filtered Search

OPTIONAL ACCESSORIES AND SUPPLIES

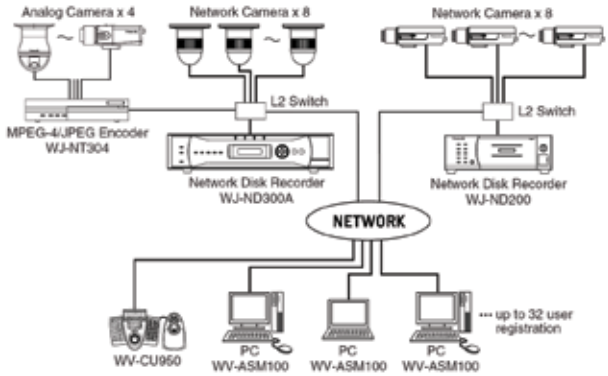
WV-Q200P	*Rack Mount Bracket for WJND200*	**$135.00**	
WV-Q201	*Vertical Stand*	**$110.00**	
WJ-HDD16	*Removable HDD (160 GB)*	**$500.00**	
WJ-HDC20	*USB Cradle For Removable HDD*	**$300.00**	

ORDERING INFORMATION

WJ-ND200/160	*Network Video Recorder, 160GB Capacity (160GB Base Removable Hard Drive)*	**$3,700.00**
WJ-ND200/320	*Network Video Recorder, 320GB Capacity (160GB Base Removable Hard Drive)*	**$4,200.00**

The Package includes: WJ-ND200 Disk Recorder, CD-ROM (1 pc), Installation Guide (1 pc.), Warranty (only for NTSC model), Power Cord for NTSC model (1 pc.), Power Cord for PaL model (2 pc.), Key (2 pc.), Brace (for the power cord) (1 pc.).

Typical Application



PANASONIC MANAGEMENT SOFTWARE

- Control up to 100 Panasonic Recorders
- Multiple displays (operation, live, maps)
- MPEG-4 live viewing and alarm message pop-up
- Panasonic PTZ Camera control
- Independent camera/encoder support

ORDERING INFORMATION

WV-ASM100	*Management/monitoring software for recorders*	**$1,670.00**

FiberOptic.com Glossary Of Terms

The Fiber Optic Marketplace, LLC®

A

Attenuation — The decrease in signal strength along a fiber optic wave guide caused by absorption and scattering. Attenuation is usually expressed in dB/km.

C

Cladding — Material that surrounds the core of an optical fiber. The lower index of refraction in the cladding causes the transmitted light to travel down the core.

Core — The light-conducting central portion of an optical fiber, composed of material with a higher index of refraction than the cladding; The portion that transmits light.

Coupler — A device that combines or splits power from optic fibers.

Course Wavelength Division Multiplexing (CWDM)

See "WDM" for basic definition. If a WDM system does not need to be optically amplified or if only a few channels are needed, then much wider wavelength spacing is possible. This can potentially reduce cost by allowing uncooled lasers and simpler wavelength Mux and Demux devices.

D

Data Rate — The number of bits of information in a transmission system, expressed in bits per second (b/s or bps), and which may or may not be equal to the signal or baud rate.

Dense Wavelength Division Multiplexing (DWDM)

Multiplexing of signals by transmitting them at different wavelengths through the same fiber.

Dispersion — The spreading out of light pulses as they travel in an optical fiber; proportional to length.

Dispersion-Shifted Fiber (DSF)

Standard single-mode fibers exhibit optimum attenuation performance at 1550nm and optimum bandwidth at 1310 nm. Dispersion-shifted fibers are made so that both attenuation and bandwidth are optimum at 1550 nm.

Duplex Cable — A two-fiber cable suitable for duplex transmission. Usually two-fiber strands surrounded by a common jacket.

E

Electromagnetic Spectrum

The range of frequencies and wavelengths emitted by atomic systems.

Gamma rays	*Wavelength less than 10-13M*
X-rays	*Wavelength between 10-13 and 10-9M*
Ultra-Violet	*Wavelength between 10-9 and 0.4x10-6M*
Visible	*Wavelength between 0.4x10-6 and 0.5x10-6M*
Infra red	*Wavelength between 0.5x10-6 and 0.3x10-3M*
Microwave	*Wavelength between 3x10-2 and 10-1M*
Radio & TV	*Wavelength greater than 0.3M*

F

Fiber Optic Jumper

Used to interconnect transmission equipment to the fiber optic patch panel.

Fiber Optics — A system of flexible quartz or glass fibers that use total internal reflection (TIR) to pass light through thousands of glancing (total internal) reflections.

Fresnel Reflection

The reflection that occurs at the planar junction of two materials having different refractive indices; Fresnel reflection is not a function of the angle of incidence.

G

Graded-Index — An optical fiber whose core has a non-uniform index of refraction. The core is composed of concentric rings of glass whose refractive indices decrease from the center axis. The purpose is to reduce modal dispersion and thereby increase bandwidth.

I

Index of Refraction

The ratio of the speed of light in a vacuum to the speed of light in a material.

Light-Emitting Diode (LED)

A semiconductor diode that emits incoherent, but chromatically pure light at the junction between p- and n-doped materials. LEDs emit light by spontaneous emission.

M

Mechanical Splice — A splice in which fibers are joined mechanically (e.g., glued, crimped, or otherwise held in place) but not fused together.

Micro Bending — Tiny bends in a fiber that allow light to leak out and thus increase loss. Microbending is worse at longer wavelengths.

Micrometer — A unit of length in the International System of Units (SI) equal to one millionth of a meter (10-6m).

Modal Dispersion — Dispersion arising from differences in the times that different modes take to travel through multi-mode fibers.

Mode — (1) An electromagnetic field distribution that satisfies theoretical requirements for propagation in a waveguide or oscillation in a laser cavity. Light has modes in a fiber or laser. (See "TEM".)
(2) A particular functioning arrangement, setup,or condition for laser operation, such as continuous emission, pulses or grouped pulses.

Multimode Fiber — Fiber where light propagates in many modes. Used for shorter distances; usually a larger diameter fiber of plastic or other low-cost material.

Multiplexer (MUX) — A device that combines two or more signals into a single output.

N

Nanometer (nm) — A unit of length in the International System of Units (SI) equal to one billionth of a meter (10-9 meter).

Non Zero Dispersion

This type of fiber was designed to introduce a small amount of dispersion without the zero point crossing being in the WDM pass band.

O

Optical Amplifier — A device that amplifies the input optical signal without converting it to electrical form. The best developed are optical fibers doped with the rare earth element erbium.

Optical Return Loss

Is the ratio of the incident optical power to the reflected optical power in units of dB.

OTDR — An optical test instrument that measures transmission characteristics by sending a short pulse of light down a fiber and observing the reflected, back scattered light.

P

Photo Diode — A diode that can produce an electrical signal proportional to the light falling upon it.

Pigtail A short length of optical fiber that is permanently affixed to an active device, e.g., laser diode or photo diode, and is used to couple the device, using a splice or connector, to a longer fiber.

Polarization Maintaining Fiber (PMF) Fiber where light propagates predominately in one mode and maintains a fixed polarization. Used for maximum distance and bandwidth; usually a rectangular fiber of monolithic quartz. Panda fiber is an example of PMF.

Polarization Mode Light transmitted down a single mode fiber can be decomposed into two perpendicular polarization components. Distortion results due to each polarization propagating at different velocity.

Power Meter An accessory used to monitor laser beam power at the rear reflector, tune the beam for optimum power, or monitor power delivered to the work station.

R

Rayleigh Scattering Scattering of radiation in the course of its passage through a medium containing particles, the sizes of which are small compared with the wavelength of the radiation.

Refraction The change of direction of propagation of any wave, such as an electromagnetic wave, when it passes from one medium to another in which the wave velocity is different. The bending of incident rays as they pass from one medium to another.

S

Single Mode Fiber (SMF) Fiber where light propagates predominately in one mode. Used for maximum distances; usually a small, precise diameter (8-9 microns) fiber of monolithic quartz.

Splice A permanent junction between two fiber ends.

T

Transceiver An integrated device that integrates laser source and detector in one package.

Transmitter In fiber optic communications, a light source whose beam can be modulated and sent along an optical fiber, and the electronics that support it.

V

Visible Light Electromagnetic radiation visible to the human eye from wavelengths of 400 nm (blue) - 700 nm (red) The peak of the human spectral response is about 555 nm. (see Light).

W

Wavelength The distance an electromagnetic wave travels in the time it takes to oscillate through a complete cycle. Wavelengths of light are measured in nanometers (nm) or micrometers (microns). The wavelength of a laser diode is determined from its emission spectrum: device structure; material composition; device fabrication and packaging; front and back facet reflectivity It is temperature dependent and approximately increases by three Angstroms for each Centigrade increase in diode temperature.

ACRONYMS AND DEFINITIONS

BER	Bit Error Rate
CD	Chromatic Dispersion
CW	Continuous Wave
CWDM	Coarse Wavelength Division Multiplexer
dB	Decibel
dBm	Decibel with 1 mWatt reference level
DSF	Dispersion Shifted Fiber
DWDM	Dense Wavelength Division Multiplexing
EDFA	Erbium–Doped Fiber Amplifier
EIA/TIA	Electronics Industry Association/ Telecommunications Industry Association
EMI	Electromagnetic Interference
FCC	Federal Communications Commission
FDDI	Fiber-Distribution Data Interface
FOA	Fiber Optic Amplifier
FTTC	Fiber To The Curb
FTTD	Fiber To The Desk
FTTH	Fiber To The Home
Gbps	Gigabits per second (1,000 Mbps)
HFC	Hybrid Fiber/Coax
IC	Integrated Circuit
IEEE	Institute of Electrical and Electronics
IP	Internet Protocol
LAN	Local Area Network
LED	Light Emitting Diode
MAN	Metropolitan Area Network
Mbps	Megabits per second (1,000 Kbps)
MUX	Multiplexer
NZDF	Nonzero Dispersion Fiber
OFA	Optical Fiber Amplifier
OTDR	Optical Time-Domain Reflectometer
PD	Photo Diode
PHY	Physical Layer (WLAN)
PMD	Polarization-Mode Dispersion
PON	Passive Optical Network
RX	Receiver
SDH	Synchronous Digital Hierarchy (European telecommunication)
SMF	Single Mode Fiber
SONET	Synchronous Optical Network (US telecommunications)
Tbps	Terabits per second
TDM	Time Division Multiplexing
T/R	Transmit/Receive
TX	Transmit/Transmitter
UHF	Ultra-High Frequency
UV	Ultraviolet
VoIP	Voice Over IP
WAN	Wide Area Network
WDM	Wavelength Division Multiplexing
WPON	WDM PON

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ONLINE TRAINING

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We currently offer our training via e-learning software and traditional classroom based training. For professionals with limited time and travel ability, some of our entry level courses are offered online while some of our more advanced offerings can be taken using a combination of online preparation and classroom based hands-on workshops.

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- COX Communications
- Day-timers
- Department of Defense
- Department of State
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- ITT
- Lutron
- Metropolitan Transit Authority
- Modern Home Electronics
- NBA Entertainment
- Pennsylvania Department of Transportation
- Service Electric Cable Television
- Telebarbados
- Tennessee Electric
- Tri-M Group
- United States Air Force
- United States Army
- Wheeling Hospital

Online/Classroom Combination Courses

Combination courses are currently offered with an online self-paced lecture and a hands-on workshop. This innovative approach to Fiber Optic training and certification allows students to minimize expense, time and travel while learning at their own pace on their own schedule (by using online e-Learning to complete the lecture portion of the class.) Students may then complete the hands-on portions of the class at any of our scheduled sessions around the world (and can review the material within one year of registering for the course.)

If online training is not ideal for your learning style, a more traditional instructor-lead lecture or questions and answer section is available upon request depending upon location and the size of the class.

Online Only Courses

If a course is being offered online on our e-Learning website no hands-on training is required, although some students find an on-site lecture helpful. If you wish to take this course from the comfort of your home or office, please our visit our registration page to request login information. This course will be available immediately.

This on-line approach to Fiber Optic training and certification allows students to minimize expense, time and travel while learning at their own pace on their own schedule. If you wish to take it on-site instead, please contact one of our representatives at training@fiberoptic.com. If no nearby locations are offered, please use the online option or contact us about scheduling custom training.

Classroom Only Courses

These courses require a hands-on portion and must be taken at one of our training locations. Currently an online option for these courses is not available.

Installer Training Courses

Installer level courses are our new to intermediate level courses designed for students who have either no experience, limited experience or who wish to brush up on their skills. If a student is new to the telecommunications industry it is recommended that they start with a fundamentals level course from our installer offerings.

TR-CFI *Certified Fiber Installer* **$1,350**

Certified Fiber Installer training is designed for those who layout, install or maintain fiber optic cabling systems. It identifies you as an installer able to demonstrate a practical knowledge of fiber optic theory, codes, standards and practices widely accepted in the fiber optics industry.

TR-OSP *Outside Plant Installer* **$1,350**

The Fiber Optic Outside Plant Installer is designed for workers with fundamental fiber optic knowledge that focuses specifically on outside plant installations (OSP). OSP includes communications such as building to building or long haul telecommunications (including customer-owned OSP.)

TR-FTTX *FTTx Installer* **$1,350**

In this course, we will discuss various network designs, installations, maintenance and troubleshooting. Students will learn the difference between an Active and a Passive Optical Network (PON). The advantages and disadvantages of each system and how they are currently being implemented in the field. Students will learn splicing, testing and installing techniques for an FTTx network.

TR-PWSI *Premise Wiring Systems Installer* **$1,350**

The Premise Wiring Systems Installer training is designed for those who design, install or maintain copper and fiber optic systems in commercial buildings and outer facilities. It identifies you as an installer who demonstrates a practical knowledge of copper and fiber optic theory, codes, standards and practices widely accepted in commercial building and customer-owned outside plant (campus environment).

TR-IVS *Panasonic i-PRO Installation* **$1,350**

In this course, which focuses on interactive video surveillance systems, students will learn how they or can monitor any location where power and an ethernet network are accessible. Student will learn how to setup motion detection, advanced scheduling, e-mail notifications, administrative privileges.

TR-WIT *Wireless Network Installation & Testing* **$1,500**

This course is designed to give students a firm understanding of WLAN security. Hands-on access point and client adaptor labs provide attendees with experience setting up and securing a wireless LAN. Presentation material will explore WLAN design concerns, essential equipment, AP configuration, and site survey techniques.

Master Training Courses

Master level courses are our most advanced level courses designed for students who have either taken one of our technician level courses or who have commensurate industry experience.

TR-MFS *Master in Splicing* **$1,350**

The Master in Splicing program is the first of its kind in the telecommunications field. It is designed to provide an unmatched, real-life experience with solid classroom instruction using various labs designed around specific techniques. The Master in Splicing training is a perfect compliment for experienced installers and technicians. Advanced hands-on design labs along with advanced fusing splicing techniques are featured in this course.

TR-MFT *Master in Testing* **$1,350**

Using various labs designed around specific testing scenarios, the Master in Testing training is a perfect compliment for experienced fiber optic installers and technicians. This course features advanced hands-on testing labs demonstrating advanced testing procedures and techniques.

TR-MFOT *Master Technician* **$3,525**

The Master Fiber Optic Technician training is the most comprehensive certification training available. It is our complete Fiber Optic Training; encompassing all aspects of our master splicing and testing programs into an extensive five-day certification experience that qualifies a Technician as a truly unique "Craftsmen". It is designed to provide an unmatched, real-life experience with solid classroom instruction using various labs designed around splicing, and testing scenarios.

Visit www.TheFiberSchool.com to sign up for training now!

For an additional $150 each, students may choose to receive an ETA Certification and/or FiberOptic.com certification upon successful completion of the course and exam.

Prices do not include logistics fee for away classes or certification.

Technician Training Courses

Technician level courses are our intermediate to advanced level courses designed for students who have either taken one of our introductory courses or who have commensurate industry experience.

TR-FOT *Fiber Optic Technician* **$2,350**

The Fiber Optic Technician course is designed for those who wish to build upon the knowledge gained in the Certified Fiber Installer course, prior to taking the Master Fiber Optic Technician course. This course provides the opportunity to learn and perfect the more advanced field skills that the Fiber Optic Technician needs on the job.

TR-FCT *Fiber Characterization Training* **$2,000**

This three-day course will provide you with all the knowledge and requirements that are needed to effectively characterize your optical infrastructure. You will learn about all the requirements for engineering and for qualifying the optical fiber links that utilize specific bit rates in regards to both metro and long haul spans.

TR-PWST *Premise Wiring Systems Technician* **$2,500**

The Premise Wiring Systems Technician training expands a student's knowledge level of copper and fiber optic cabling used in commercial buildings and customer-owned outside plant environments (Campus).This training incorporates hands-on labs including multi-vendor copper and fiber terminations, and expanded fiber optic splicing and testing labs. Students will learn skills which are applicable to all the functions required to safely and competently install copper and fiber communications cabling in the premise environment.

TR-WCB *Wireless Network Cellular Backhaul* **$1,995**

With rising demand for mobile broadband services, network operators are seeing sharp increases in bandwidth requirements. The cellular network infrastructure must evolve to support newer technologies that require more and more bandwidth. Mobile service providers need to gain real-time, insight into their network performance in order to manage existing architectures and ensure a higher quality of service regardless of the underlying technology.

Online Only Training Courses

Online training saves the student time, travel, and expense by allowing them to either complete an entire course from the comfort of their own home or by allowing them to complete a portion of the course prior to the hands-on components.

TR-FOF *Fiber Optic Fundamentals* **$600**

Fiber Optic Fundamentals training is designed for new or experienced workers who desire a fundamental knowledge of fiber optic theory, codes, standards and practices widely accepted in the telecommunications industry today. This course is an excellent starting point for those who install, design, or supervise the installation of fiber optic systems.

TR-PWSF *Premise Wiring Systems Fundamentals* **$600**

The Premise Wiring System Fundamental course is designed for new or experienced personnel who desire a fundamental knowledge of copper and fiber optic theory, codes, standards and practices widely accepted in commercial buildings and customer-owned outside plant facilities. An excellent course for those who install, supervise, design and\or oversee the installation of copper and fiber premise wiring systems in commercial buildings.

TR-FCB *Fiber Characterization Basics* **$900**

This online course will provide students with an introduction to fiber characterization and allow students to effectively communicate and interpret issues found during testing of optical infrastructure. Students will learn about the theory behind PMD, CD and attenuation profiling, and how to interpret the results obtained during testing.

TR-WNF *Wireless Network Fundamentals* **$1,350**

This course is designed to give students a firm understanding of radio frequency theory, 802.11 standards, WLAN topologies, basic antenna theory and an introduction to WLAN security. Hands-on access point and client adaptor labs provide attendees with experience setting up and securing a wireless LAN. Presentation material will explore WLAN applications in specific markets, WLAN topologies and design concerns, essential equipment, AP configuration, and site survey techniques.

FiberOptic.com Certification

Going above and beyond industry standards, FiberOptic.com certifications combine a typical multiple-choice certification exam with a hands-on practical exam demonstrating knowledge in the latest tools and techniques.

ETA Certification

ETA is widely known for their electronics certification programs, accredited by the International Certification Accreditation Council (ICAC). ETA is considered an industry standard certification.

TR-CUST Custom Training Course

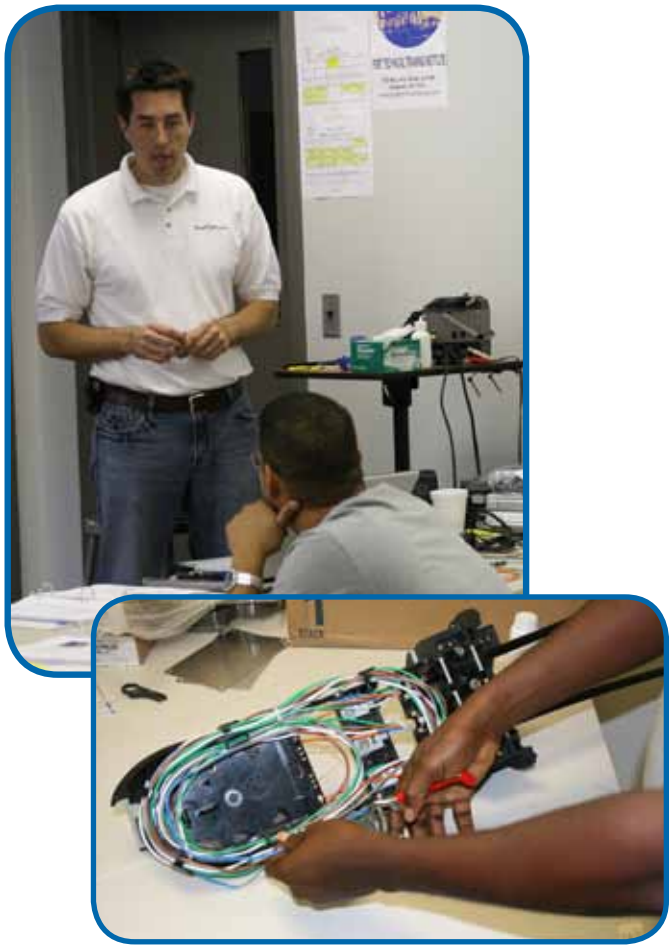
FiberOptic.com will give you the exact training your company needs, we will train you and your employees exactly as needed to insure your field technicians will perform in a highly professional manner on the job. Most of our OnSite course offerings are typically 4 days in length and feature agendas and hands-on exercises that can easily be adapted to your specific needs. In many cases these needs can be met within the standard 4 day course offerings but clients often require an additional day to address specific needs such as:

- **"Hands-On":**
  - You need your crafts people prepared to begin working immediately with the practical hands-on experience gained in class on the equipment you use.
    - With your specific connector
    - With your specific fusion splicer
    - With your specific splice closure
    - With your specific OLTS or OTDR.

- **Mixed agendas:**
  - You construct a fiber optic course that meets your needs then add items from our available certification courses.
    - Cover basic copper cabling common to Premise Wiring Systems
    - Cover basic Audio Visual systems
    - Cover basic CCTV, CATV, FTTx topics
    - Cover specific topics from our Outside Plant course
    - Cover additional OTDR techniques

- **Experience:** Our skilled instructors and course developers have experience training all kinds of personnel including AT&T, Verizon, US Military, Government agencies, End Users and all categories of contractors enabling FiberOptic.com to easily customize any course.

- **Take Action:**
  1. Select the course and certification desired
     a. Select a topic or issue you desired to be added
  2. Contact Fiberoptic.com and request an OnSite Custom quote
     a. How many students?
     b. Your location or a location near you?
     c. Select a desired date that meets your needs and schedule
  3. Review our proposal and book your training OnSite with Fiberoptic.com



Client Testimonials

"I enjoyed the personalized class. The one on one time with the instructor and the hand on training were exactly what I needed. The instructor had a vast knowledge and was courteous and helpful."

- W.M., Florida

"The course was great for me, the hands on portions made the difference. The instructor did a great job and really knew the equipment and was able to answer all of my questions."

- R.C., Virginia

PRICING COURSES & CERTIFICATIONS

TR-CUST	*FiberOptic.com Custom Training (Includes course materials)*

Custom course prices can vary depending on depth of material and number of days.
Call 877-529-9114 for an individualized quote.

ON-SITE Training

Take advantage of our most efficient and cost effective way to train you and your valuable employees. FiberOptic.com can bring any of its existing courses and certification exams to your location or to a facility near you.

It is always difficult to take valuable employees out of the field to attend the necessary training courses needed to obtain the certifications required to compete in today's fast paced competitive markets. If your employees are current certification holders, just keeping track of and scheduling their courses to get the required CEC's (Continuing Education Credits) is difficult. In addition ensuring your company field crafts people are scheduled into the right courses to get and keep the individual certifications that your company requires and your clients expect is a challenge.

All this while getting the most out of your training budget.

Custom Training - Rosebel Goldmine, Suriname

The Rosebel gold mine was in need of real world, in-line fiber training. The catch, the mine is in the middle of the Amazon! The unique requirements of maintaining a fiber optic infrastructure was no problem for FiberOptic.com. FiberOptic.com was able to develop hands-on training based on field applications.

Let FiberOptic.com help you meet your training goals with our On-Site training because it is:

Convenient and Flexible:

- You select the course, the start time, the end time, the date, the location
- We bring everything to you:
  - Equipment (or use your equipment)
  - Training manuals, lab exercises and a qualified instructor
  - Certification Exams.
- Your crafts people remain close to the field for unforeseen emergencies

Cost Effective:

- Reduce your company's travel expenses
- Increase your productivity and save time
- Save money - We'll help you stay within your Training budget

Take Action:

1. Select the course and certification
2. Contact FiberOptic.com and request an OnSite quote
   a. How many students?
   b. Your location or a location near you?
   c. Select a desired date that meets your needs and schedule
3. Review our proposal and book your training OnSite with FiberOptic.com

Custom Training - Fallujah, Iraq

Bechtel the world's No. 1 choice for engineering, construction, and project management selected FiberOptic.com as the preferred fiber optic training vendor to create a customized class to train technicians in Fallujah, Iraq.

PRICING COURSES & CERTIFICATIONS

Custom course prices can vary depending on depth of material and number of days.
Call 877-529-9114 for an individualized quote.

A FiberOptic.com Service Offering

Fiber Sentry

Are you protected from Fiber Damage?

Fast Alert Response

At A Glance:

- Fibers are Continuously Monitored, 24x7x365
- Quickly identify and locate fiber faults and degradations.
- ONMS has user defined fault thresholds (typically set at 1 dB) that will identify degradations before they become service affecting outages.
- Reduce SLA fines by quickly locating faults and identify degradations before they become service affecting outages.
- Dispatch to fix, not to find
- Reduce truck rolls
- General desire to conduct Test & Maintenance Centrally and Remotely
- Improve overall Customer Satisfaction/Experience.

Real-time network status and performance

Built to increase workforce productivity and facilitate the management of large optical networks with fewer technicians, FIBER SENTRY combines remote testing, network monitoring and service provisioning to deliver high-quality network performance.

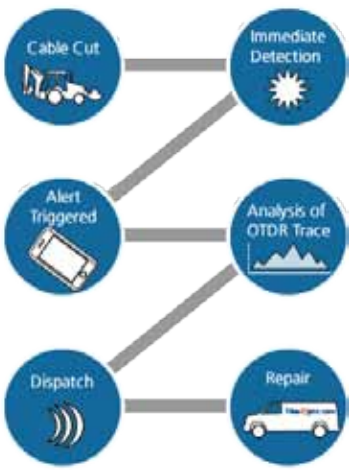
FIBER SENTRY increases customer satisfaction through improved network availability, simplifies the management of service level agreements (SLAs) and quality of service (QoS), and provides customers with precise information on service status.

The system also enables efficient asset management by assuring high performance levels and the readiness of fiber optic cable for use when required.

FIBER SENTRY continuously monitors the network, alerting operators and managers to faults as they occur. Events are logged, and details regarding faults, such as location and type, are provided to the network management center where the appropriate maintenance teams are automatically alerted.

FIBER SENTRY's Performance Monitoring Services encompass the equipment, resources and highly skilled staff necessary to help you understand, analyze and optimize your LAN,WAN or ATM network fast, with minimal interruption to your everyday operations. FIBER SENTRY engineers focus on providing a broad spectrum of objective analyses ranging from, but not limited to capacity planning, network configuration evaluations, network migration and application deployment assessments, network optimization audits and troubleshooting. Performance Monitoring services are customized to fit your exact needs.

Complete Turn-Key Solution for Network Monitoring
Easy to Install on Any Type of Fiber Network



FIBER SENTRY provides monitoring of your fiber network to keep your business running from unforeseen consequences

- Improper Digging
- Wind Damage
- Vandalism
- Network Intrusion
- Managed Network Security
- Detect Breaks When They Occur
- Assess Damage
- Affordable Monitoring
- FiberOptic.com Hosts Server
- Field Upgradable Equipment
- Tried and True JDSU Hardware
- No Need for Manual OTDR Scans

24/7 Monitoring

- Improve network availability
- Quickly detect and locate faults and degradations
- Improve SLA management
- Generates reports to support SLA agreements
- Enhance maintenance team efficiency
- Remote Measurement
- Intelligent Dispatch
- Increase Network Security
- Identify Fiber Tapping

Network Optimization Services:

The need to deliver new services, on-time and on-budget, while optimizing your existing network has never been greater. Working with your staff, FIBER SENTRY's Network Optimization Services enable you to reduce your time to market, lower equipment costs, reduce network downtime and plan for future upgrades. FIBER SENTRY offers a wide variety of Network Optimization Services including, but not limited to Fiber Characterization, Trace Analysis and Gigabit Ethernet Testing.

Fiber Characterization:

FIBER SENTRY's Fiber Characterization Service is a series of tests taken on a fiber optic span to determine the integrity of the fiber, installation practices and performance of a desired transmission rate and/or Service. FIBER SENTRY's Fiber Characterization team is staffed to be able to respond to your needs on a timely basis. Analysis of the acquired data and corresponding reports are provided almost immediately after the testing is completed. The FIBER SENTRY team has the expertise to provide real-time, on-site corrective action when problems are identified. For example, if the fiber plant under test has any deficiencies, the FIBER SENTRY team is often able to assist you with immediate resolution by either dealing with the issue directly or providing root cause analysis. The result is an optimized network without having to redeploy crews at a later date, adding to the time needed for project completion. Typical problems resolved on-site by FIBER SENTRY engineers include Reflectance Optimization and Loss Optimization. The number one failure or marginal specification in the field is Optical Return Loss (ORL). Adtell Integrations engineers can work with you to isolate and correct or improve the major contributors to ORL while on-site.

Expert Fiber Technicians

Trace Analysis:

FIBER SENTRY's Trace Analysis Service provides an analysis of all your OTDR traces and quickly provides a clear, concise report detailing all necessary OTDR trace data to properly commission your fiber optic cables. This is especially important when conducting dual wavelength, bi-directional testing of fiber optic cables that results in hundreds or thousands of OTDR trace signatures. Trace analysis can be conducted on any size cable.

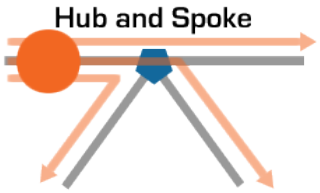
Spectral Analysis:

FIBER SENTRY's Spectral Analysis Service provides an analysis of your DWDM network that enables you to optimize the operation, upgrade and performance of your DWDM system, ensuring maximum performance and reliability. FIBER SENTRY takes into consideration such parameters as Optical Signal to Noise Ratio, System Gain Tilt and Total Power in order to optimize the system and avoid potential non-linearities.

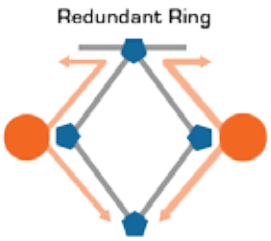
SONET/SDH Testing:

SONET/SDH rings are still a dynamic design implemented in today's fiber rings to provide redundancy and diversity. However, the proper test times and required equipment can be quite costly, both in capital and operational expenses. FIBER SENTRY's SONET/SDH Testing Service can help alleviate this situation by providing the equipment, engineers and time required to properly test and exercise your network. Our proactive approach saves you time and money and ensures reliable service.

Have an Unprotected Spur?
A single RTU can monitor fiber in multiple directions over multiple branches



Have a redundant ring?
Multiple RTUs can be monitored simultaneously to ensure immediate notification of failure.



Setup and Installation Services:

FIBER SENTRY's Network Setup and Installation Services can provide the resources to build or expand your network. We help you chose the right design, technology and hardware that suits your business needs.

- ONT and ONU placement for FTTP projects
- Premise wiring for FTTP projects
- Emergency Maintenance agreements
- Network Audit Services (what do we have in the field?...)

Go beyond OTDR

Leave no faulty network behind

iOLM | intelligent Optical Link Mapper

Powered by Link-Aware™ TECHNOLOGY

> Empower test crews with handy fiber expertise

Limited training required: self-setting device

> Avoid repeat truck rolls

With Link-Aware™, the smartest analysis technology, and consolidated results

> Optimize fiber maintenance

No more trace misinterpretation: prompt diagnosis and clear schematic link view

EXFO's iOLM test solution lets you take advantage of the full power of your OTDR during FTTx and P2P network installation and maintenance. Thanks to automated settings and analysis, even the untrained technician can become a test expert in no time.

> Discover the iOLM, visit **EXFO.com/GoBeyondOTDR**

FiberOptic.com
The Fiber Optic Marketplace, LLC®

EXFO | Assessing Next-Gen Networks