Model 340
OTDR Plus™ Multitester II

A LANscape® Solutions Product

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Cable Systems

Applications

- LAN
- Telco
- CATV

Description

The Model 340 OTDR Plus™ Multitester II offers true multi-testing capability that features field-installable single-mode, multimode and quad OTDR modules, visual fault locator, as well as optional built-in power meter and laser source. The standard unit provides internal solid-state memory for 125 traces and a floppy disk drive. An optional hard drive is also offered to allow mass data storage and speeds testing by eliminating the need to constantly exchange floppy disks in the standard drive. The product line offers a large variety of high-performance multimode and single-mode modules featuring a superior single-mode unit with 46 dB dynamic range. SoftView™ Emulation Software provides desktop analysis and quality documentation capability.

A large 10.4-in (26.4 cm) display is easy to read and eliminates the need to jump from screen to screen to view results. Because it is active matrix color, readability is further enhanced. The extraordinary strength, durability and weather resistance of the custom polymer housing protects your equipment investment.

Troubleshooting with the 340 is quick and easy with the SmartTest™ Function. At the touch of a button, the 340 selects the parameters and then tests the fiber. The DualTrace™ Function tests and displays both wavelengths on one graph. The multitasking operating system provides fast fiber analysis and data collection. The DualPulse feature allows measurement of the same fiber with two pulse widths to optimize resolution and distance measurements.

Repetitive testing and documentation of each fiber is reduced to the shortest possible time using the AutoIncrement™ Function. Only one button per fiber is needed to record both a trace and event table at both wavelengths. Pop-up dialog boxes guide you from fiber-to-fiber and provide warnings if a fault of above-threshold loss is found.

Model 340 OTDR Plus Multitester II | Photo TEQ15

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Features / Benefits

- SmartTest™ Function provides a fast, one-button analysis of the entire fiber
- AutoIncrement™ Function speeds up repetitive as-built testing in high-fiber-count projects, saving time, money and reducing error
- DualTrace™ Function shows optimal traces at both wavelengths on one graph for easy analysis
- Large variety of high-performance modules available – single-mode up to 46 dB offers significant distance capacity and enhances event search capabilities
- Multitest capabilities offer all-in-one convenience on a field-upgradeable platform
- SoftView™ Emulation Software for batch printing and editing, trace overlay and bidirectional analysis
- Large display with active matrix color eases eyestrain during periods of extended use
- Commercially available rechargeable batteries offer hours of autonomous operation
- AC adapter as well as a 12 V DC power adapter
- Multilingual operating and help screens
- Quick and efficient location of fiber breaks and previous event for landmarking
- Flexible Universal Connector System
- Telcordia compliant, including GR-196 formatted traces
- Level 3 approved

The Multitester Concept

The 340 combines single-mode, multimode and quad OTDR capabilities along with a power meter, visual fault locator and stabilized single-mode light source into a compact platform that resides in a rugged polymer housing. Virtually any field testing can be accomplished with the unit. Capabilities include incoming reel inspections, link loss measurements, fiber attenuation (dB/km), splice and connector loss, reflectance and optical return loss measurement, length measurement, visual fault location and a 2 kHz test tone for fiber identification. With the many range and test options available, the unit can be optimized for access, data center, telco or CATV applications. Specialty modules for water intrusion (1244 nm) S-band (1410 nm) and out of band (1625 nm) testing are also available. Because the platform is modular and field-installed, OTDR and VFL options not ordered initially can be added at a later date.

OTDR Functions

The 340 is two OTDRs in one – single-mode and multimode – making it ideal for LAN testing, where both fiber types are common. With up to 46 dB of single-mode range available, the 340 is a powerful tool for telco and CATV applications as well.

Power Meter

The built-in power meter options make end-to-end testing easy because data can be saved to disk and analyzed/printed with the same software used for OTDR traces. For CATV applications, a range of +20 dBm is available.

Visual Fault Locator

The field-installable VFL makes fault location within the OTDR's deadzone possible as well as provides visual continuity checks.

Single-mode Source

Units equipped with single-mode OTDR capability can also be equipped to function as a stabilized laser source for loss measurement.

2 kHz Test Tone
Fiber identifiers such as the CheckPoint™ and CheckPoint Plus can recognize this tone to locate a fiber at a splice or repair point.

Fault Locate Function
The OTDR operates as a simple fault locator. At the touch of a button, the unit quickly and accurately finds the end of the fiber.

SmartTest™ Function
Think of the SmartTest Function as the built-in expert. One key press will select the best parameters for the connected fiber, acquire the data and present both a trace and an event table on one screen. Both novice and expert will benefit from quick and complete fiber characterization. For the novice, getting good results requires only minimal equipment knowledge. For the expert, the SmartTest Function can quickly set machine parameters.

DualTrace™ Function
On one screen, the DualTrace Function characterizes a fiber at both wavelengths, optimizing the pulse width for each. Visual comparison of performance at each wavelength is greatly enhanced by combining both traces into one graph. Wavelength-dependent losses, such as bending and pinching in splice trays, tight bends in cable placement and compression due to temperature extremes, are also easier to identify in the DualTrace Function view. Such events will exhibit greater loss at the longer wavelength, both on the traces and in the event table.

DualPulse Function
A fiber is tested at a single wavelength with two pulse widths. Two traces are displayed, one for each pulsewidth. The short pulse provides optimal event resolution, while the longer pulse provides excellent distant measurements.

AutoIncrement™ Function
Documentation of new installations and repairs is performed quickly with the AutoIncrement Function. This function can create traces and event tables at both wavelengths, save them to disk and prompt the user for the next fiber when ready. If any un-acceptable losses are detected, the user is informed before proceeding. Sequential file names are automatically incremented for each fiber in the test.

Data Storage
Data is stored to either the internal solid-state memory, a standard floppy drive or an optional hard drive. More than 80,000 traces can be stored on the internal hard drive. Floppy disks may be created directly from the hard drive. Data can also be stored in other compatible file formats such as the standard Telcordia GR-196 format.

PC Emulation Software
SoftView™ Emulation Software turns a notebook or office PC into a fiber analysis workstation with powerful batch printing, reporting and editing tools. Virtually all the functions available on the OTDR are available on the PC for data stored to disk. SoftView Emulation Software provides manual operation with view trace, eight-trace compare, Telcordia GR-196 formatted trace measurement, save and recall, plus fast analysis and batch printing, fast templates, bidirectional analysis and global processing.

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Specifications

Optical Modules

Multimode Modules	340M-40	340M-41	340M-42				
Center Wavelength (±20 nm)	850 nm	1300 nm	850/1300 nm				
Dynamic Range	23 dB	26 dB	23/26 dB				
Attenuation Deadzone	6.5 m	7 m	6.5/7 m				
Single-mode Modules	**340M-13**	**340M-14**	**340M-15**	**340M-23**	**340M-24**	**340M-25**	
Center Wavelength	1310 nm ± 20 nm	1550 nm ± 20 nm	1310/1550 20/± 20 nm	1310 nm ± 20 nm	1550 nm ± 20 nm	1310/1550 ± 20 nm	
Dynamic Range	30 dB	28 dB	30/28 dB	36 dB	34 dB	36/34 dB	
Attenuation Deadzone	10 m	12 m	10/12 m	10 m	12 m	10/12 m	
Single-mode Modules	**340M-34**	**340M-36**	**340M-38**	**340M-39**	**340M-61**	**340M-62**	
Center Wavelength (±20 nm)	1550 nm	1310/1550 nm	1550 nm	1310/1550 nm	1244 nm	1244/1310 nm	
Dynamic Range	40 dB	40/40 dB	46 dB	43/46 dB	36 dB	36/36 dB	
Attenuation Deadzone	6 m	6 m	10 m	10/10 m	6 m	6/9.5 m	
Single-mode Modules	**340M-63**	**340M-64**	**340M-71**	**340M-72**	**340M-73**	**340M-74**	**340M-76**
Center Wavelength (±20 nm)	1244/1550 nm	1244/1625 nm	1625 nm	1310/1625 nm	1550/1625 nm	1625 nm	1550/1625 nm
Dynamic Range	36/34 dB	36/36 dB	36 dB	36/36 dB	36/36 dB	40 dB	40/40 db
Attenuation Deadzone	6/11 m	6/7 m	7 m	9.5/7 m	11/7 m	7 m	11/7 m
Hybrid Multimode/ Single-mode Modules	**340M-56**	**340M-57**	**340M-53**		**340M-54**		
Center Wavelength (±20 nm)	850/1300 nm 1310/1550 nm	850/300 nm 1310/1550 nm	1310/1550/1625 nm		1310/1410 nm 1550/1625 nm		
Dynamic Range	23/25 dB 22/21 dB	23/24 dB 33/31 dB	40/40/40 dB		36/36 dB 36/36 dB		
Attenuation Deadzone	8/9 m 11/12 m	8/9 m 11/12 m	7/7/7 m		7/7 m 7/7 m		

General Module

Parameter	Specification
Universal 2.5 mm Connector Types[3] (Ultra PC standard) (Angle PC available)	FC, ST® Compatible, SC, D4, Biconic, DIN 47256, SMA 905/906 Diamond HMS-0/HMS-10/HMS-10A, E-2000
Reflective Deadzone (typical)	3 m (multimode) / 3.5 m (single-mode)
Pulse width (wavelength dependent)	4 ns to 10 µs (multimode); 10 ns to 30 µs (single-mode)
Spectral Width (RMS)	10 nm
Loss Resolution	0.001 dB
Distance Resolution	0.0001 km; 0.01 meters; 0.001 kft; 1ft; 0.0001 mi
Distance Sampling	0.25, 0.5, 1, 2, 4, 8, 16 m (range dependent)
Distance Accuracy	0.0025% of distance measurement +/- distance resolution +/- index uncertainty
Laser Certification	CDRH class 1 requirements (eye safe) 21 CFR

[1] *For dynamic range SNR=1. All measurements are typical and made using FC/SPC @ 25°C.*
[2] *Multimode: 62.5 µm with PC polish; single-mode: Ultra PC with Angle PC polish available.*
[3] *For MT-RJ, use a hybrid patch cord.*

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Specifications *(continued)*

Parameter	Specification
Mainframe and General Specifications	
Display Type	10.4-in Active Matrix Color (TFT)
Units of Measure	Meters, Feet (selectable)
Operating Temperature	AC power: 0° to 45°C (32° to 122°F); Battery: 0° to 40°C (32° to 104°F)
Storage Temperature	-20° to +60°C (-4° to 140°F)
Humidity	95% RH maximum, non-condensing
Maximum Altitude	50,000 ft
Power Supply	Battery: 6 hr typical battery life-(2); recharge time: 1.5 to 2 hr; AC: 100-250 V, 47-63 Hz; Autoranging: 12 V DC operation
Weight	11.0 lb (4.9 kg) includes battery and module
Dimensions	9.5 x 13.5 x 3.75 in (24.1 x 34.3 x 9.5 cm); includes mainframe, 1 module and battery
Data Points	Up to 16,000
Tone for Fiber Identification	2 kHz
Mass Storage	Internal Solid-State Memory: up to 125 traces; floppy (included): 1.44 Mb, 3.5-in; hard drive (optional): over 80,000 traces
Visual Fault Locator Option	
Wavelength	635 ± 10 nm
Output Power	≥ -2 dBm (0 dBm max)
Transmission	CW or 2 Hz (blink)
Connector (fixed)	FC, SC, or ST® Compatible
Laser Certification	IEC 825 Class 2, FDA (21CFR), Class 2
Single-mode Laser Source Option	
Wavelength	1310/1550 nm (same as module)
Output Power	≥ -10 dBm, typical
Stability (+23°C, 8 hrs)	± 0.2 dB
Spectral Width (RMS)	≤ 10 nm, typical
Modulation	Continuous, 1 kHz and 2 kHz
Laser Certification	CDRH CLASS 1 21CFR requirements (eye safety)
Power Meter Option	
Calibrated Wavelengths	850/1300/1310/1550/1625* nm
Optical Meter Range (factory-installed)	Standard: +10 to -55 dBm CATV: +20 to -45 dBm, with mf-460 filter
Detector Type	2 mm Ge PIN photodiode
Wavelength	800 - 1800 nm
Resolution	0.01 dBm, 0.01% Watts
Store Reference Mode	Yes
Accuracy	± 4% @ +5 to -50 dBm ± 8% @ +10 to +5 dBm and @ -50 to -55 dBm
Linearity	± 0.04 dB, +5 to -55 dBm

** Does not apply to all meters.*

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Ordering Information

The Model 340 OTDR Plus™ II Multitester product line offers maximum flexibility for getting the testing capability you need. To help you get started, we combined our most popular configurations into kits for LAN, telco and CATV applications. We offer three types of kits: our all-inclusive Extra Deluxe Kit, our standard Deluxe Kit and the economical Basic Kit. If none of the kit options meets your needs, simply build your own multitester – line-by-line.

Extra Deluxe Kits

Extra Deluxe OTDR Plus Multitester Kits include the mainframe complete with hard drive, standard floppy drive, dual or quad OTDR module of choice, power meter (standard +10 dBm/extended range +20 dBm measurement range), visual fault locator and Softview™ Emulation Software. Included in the kits are high quality test fiber boxes (one for each single-mode and/or one for multimode) and an externally attached US Keyboard contained – packaged in the deluxe hard shell transit case. A variety of field-installable optics modules are available for additional testing applications.

Part Number	Description
340DXK-4210-XX	Dual multimode (23/26 dB)
340DXK-1510-XX	Short-range dual single-mode (30/28 dB)
340DXK-1520-XX	CATV short-range single-mode (30/28 dB)
340DXK-2510-XX	Mid-range dual single-mode (36/34 dB)
340DXK-2511-XX	Mid-range dual single-mode (36/34 dB) with single-mode source
340DXK-2520-XX	CATV mid-range dual single-mode (36/34 dB)
340DXK-3610-XX	Long-range dual single-mode (40/40 dB)
340DXK-3620-XX	CATV long-range dual single-mode (40/40 dB)
340DXK-3820-XX	CATV long-range dual 1550 nm single-mode (46 dB)
340DXK-5610-XX-XX[1]	Dual multimode (23/25) + single-mode (22/21 dB)
340DXK-5710-XX-XX[1]	Dual multimode (24/27) + single-mode (32/30 dB)
340DXK-5711-XX	Dual multimode (23/24) + single-mode (33/31 dB) with single-mode source

Additional Extra Deluxe Kits available. Call Corning Cable Systems Customer Service at 1-800-743-2675 for more details.
XX = connector type: see connector code ordering information.
[1]For kits with dual multimode and dual single-mode OTDRs, the first "XX" designates the multimode OTDR, power meter and VFL connector type.

Ordering Information *(continued)*

Deluxe Kits

Deluxe OTDR Plus Multitester Kits include the mainframe with standard floppy drive, hard drive, dual or quad OTDR of choice, power meter, visual fault locator and SoftView Emulation Software – packaged in the deluxe hard shell transit case. A variety of field-installable optics modules are available for future upgrading.

Part Number	Description
340DK-4210-XX	Dual multimode (24/27 dB)
340DK-1510-XX	Short-range dual single-mode (30/28 dB)
340DK-1520-XX	CATV short-range single-mode (30/28 dB)
340DK-2510-XX	Mid-range dual single-mode (36/34 dB)
340DK-2520-XX	CATV mid-range dual single-mode (36/34 dB)
340DK-3610-XX	Long-range dual single-mode (40/40 dB)
340DK-3620-XX	CATV extended-range single-mode (40/40 dB)
340DK-3820-XX	CATV long-range dual 1550 nm single-mode (46 dB)
340DK-5610-XX-XX[1]	Dual multimode (24/27) + single-mode (22/22 dB)
340DK-5710-XX-XX[1]	Dual multimode (24/27) + single-mode (32/30 dB)

XX = connector type: see connector code ordering information.
[1]For kits with dual multimode and dual single-mode OTDRs, the first "XX" designates the multimode OTDR, power meter and VFL connector type.

Basic Kits

Basic OTDR Plus Multitester Kits are for customers that desire minimum OTDR capability. The kit includes the mainframe with standard floppy drive, dual or quad OTDR of choice, SoftView Emulation Software and the hard shell transit case. Field-installable optics modules and VFL are available to upgrade your unit in the future.

Part Number	Description
340BK-4200-XX	Dual multimode (24/27 dB)
340BK-1500-XX	Short-range dual single-mode (30/28 dB)
340BK-2500-XX	Mid-range dual single-mode (36/34 dB)
340BK-3600-XX	Long-range dual single-mode (40/40 dB)
340BK-3800-XX	CATV extended-range 1550 nm single-mode (46 dB)
340BK-5600-XX-XX[1]	Dual multimode (24/27) + single-mode (22/22 dB)
340BK-5700-XX-XX[1]	Dual multimode (24/27) + single-mode (32/30 dB)

XX = connector type: see connector code ordering information.
[1]For kits with dual multimode and dual single-mode OTDRs, the first "XX" designates the multimode OTDR, power meter and VFL connector type.

Ordering Information *(continued)*

Build Your Own Multitester

If none of the kit configurations meets your requirements, build your own! The large variety of optics modules, options, specialty modules and accessories allows configuration of your own custom unit. Follow the steps below to build your OTDR Plus™ Multitester.

Step 1: Select a **Mainframe** with or without a hard drive.
Step 2: Select an **Optics Module** with or without power meter and/or light source options.
Step 3: Select a **Transit Case** - a soft case or hard shell case.
Step 4: If desired, select SoftView™ Emulation Software.
Step 5: If desired, select **Visual Fault Locator (VFL)**.
Step 6: If desired, select **Accessories**.

Step 1: Mainframe

Multitester mainframe includes color monitor, floppy drive, AC power cord and SoftView OTDR Emulation Software that provides manual operation, view trace, two trace compare and GR-196 measurements

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1

1 Select hard drive option.

0 = Without hard drive
1 = With hard drive
2 = Hard drive with Win95 preloaded

Step 2: Optics Module (a la carte)

The power meter, single-mode light source and visual fault locator options are offered in the plug-in optics module. To order one or all of these items, order the following part number:

340M - □□ □□ - □□ - □□
1 2 3 4

1 Select OTDR option.

13 = 30 dB, 1310 nm, single-mode module
14 = 28 dB, 1550 nm, single-mode module
15 = 30/28 dB, 1310/1550 nm, dual single-mode
23 = 36 dB, 1310 nm, single-mode module
24 = 34 dB, 1550 nm, single-mode module
25 = 36/34 dB, 1310/1550 nm, dual single-mode
34 = 40 dB, 1550 nm, single-mode module
36 = 40/40 dB, 1310/1550 nm, dual single-mode
38 = 46 dB, 1550 nm, single-mode module
39 = 46/46 dB, 1310/1550 nm, dual single-mode
40 = 24 dB, 850 nm, multimode module
41 = 27 dB, 1300 nm, multimode module
42 = 24/27 dB, 850/1300 nm, dual multimode
53 = 40/40/40 dB, 1310/1550/1625 nm, single-mode tri module
54 = 36/36/36/36 dB, 1310/1410/1550/1625 nm, single-mode quad module
56 = 24/27 dB, 850/1300 nm, multimode, 22/22 dB, 1310/1550 nm, single-mode quad module
57 = 24/27 dB, 850/1300 nm, multimode, 32/30 dB, 1310/1550 nm, single-mode quad module
61 = 36 dB, 1244 nm, single-mode
62 = 36/36 dB, 1244/1310 nm, dual single-mode
63 = 36/34 dB, 1244/1550 nm, dual single-mode
64 = 36/36 dB, 1244/1625 nm, dual single-mode
71 = 36 dB, 1625 nm, single-mode
72 = 36/36 dB, 1310/1625 nm, dual single-mode
73 = 36/36 dB, 1550/1625 nm, dual single-mode
74 = 40 dB, 1625 nm, single-mode
76 = 40/40 dB, 1550/1625 nm, dual single-mode

2 Select power meter and/or light source option(s).

00 = optics module only
10 = optics module with +10 dB power meter
20 = optics module with +20 dB power meter
01 = optics module with single-mode source (only available on single-mode OTDRs)
11 = optics module with source and +10 dB power meter
21 = optics module with source and +20 dB power meter

Note: Power meter and single-mode light source have the same connector type as the OTDR. For OTDRs with quad modules, the power meter has the same connector type as the multimode OTDR.

Ordering Information *(continued)*

3 Select connector code for single-mode OTDR connector type or multimode OTDR connector type on quad OTDRs.

10 = Biconic	30 = ST® compatible	50 = Diamond HMS-10/A	73 = ST compatible Angle
15 = D4	35 = SC	60 = FC Angle	80 = Diamond E-2000
20 = SMA 905/906	40 = Diamond HP HMS-10	65 = SC Angle	85 = DIN
25 = FC	45 = Diamond HMS-0	70 = DIN Angle	90 = Diamond GFS-3

4 Select connector code for quad OTDRs, single-mode connector type.

10 = Biconic	30 = ST compatible	50 = Diamond HMS-10/A	73 = ST compatible Angle
15 = D4	35 = SC	60 = FC Angle	80 = Diamond E-2000
20 = SMA 905/906	40 = Diamond HP HMS-10	65 = SC Angle	85 = DIN
25 = FC	45 = Diamond HMS-0	70 = DIN Angle	90 = Diamond GFS-3

Step 3: Transit Case

Part Number	Description
340-CASE-DLX	Deluxe Hard-Shell Transit Case with wheels and collapsible handle
340-CASE-SFT	Deluxe Soft Carry Case with extra storage compartments

Step 4: SoftView™ Emulation Software (optional)

Part Number	Description
SOFTVIEW	Manual Emulation Operation with view trace, eight-trace compare, Telcordia GR-196 formatted trace measurement, save and recall, plus fast analysis and batch printing, fast templates, bidirectional analysis and global processing

Step 5: Visual Fault Locator – VFL (optional)

Part Number	Description
340-VFL-XX	635 nm Visual Fault Locator; XX = Connector Type: ST = ST compatible; SC = SC; FC = FC

Step 6: Accessories (optional)

Part Number	Description
ACCESSORIES	Please see *Accessories* ordering information

Example

To order an OTDR Plus™ Multitester with hard drive, 1310 nm (36 dB) single-mode OTDR with a standard power meter, field-installable VFL, ST compatible connectors, Softview Software, soft transit case and a single-mode test fiber box:

Steps	Part Number	Description
Step 1:	**340-1**	Mainframe with hard drive
Step 2:	**340M-2310-30**	1310 nm single-mode (36 dB), ST compatible, with standard +10 dBm power meter
Step 3:	**340-CASE-SFT**	Soft case
Step 4:	**SOFTVIEW**	Emulation software (optional)
Step 5:	**340-VFL-ST**	635 VFL with PM, ST compatible (optional)
Step 6:	**340-TFBS-ST-ST**	OTDR Test Fiber Box, single-mode, ST compatible (optional)

Ordering Information *(continued)*

Part Number	Description
Accessories	
340-CASE-DLX	Deluxe Hard-Shell Transit Case with wheels and collapsible handle
340-CASE-SFT	Deluxe Soft Carry Case with extra storage compartments
340-PRINTER	Thermal Printer with cable
340-PAPER-R	Printer Paper (10 rolls/pk)
340-TRIPOD	Tripod
340-BATT	Replacement 12 V Battery
340-AC-POWER	Replacement AC Adapter/Charger (US)
340-AUTO	Auto Adapter and Charger
340-SERIAL-FF	Serial Cable Null 9F to 9F
340-SERIAL-FM	Serial Cable 9F to 9M
340-KEY-US	US Keyboard
340-KEY-GE	German CE Keyboard
340-KEY-FR	French CE Keyboard
340-KEY-SP	Spanish CE Keyboard
340-KEY-IT	Italian CE Keyboard
FOB-MANUAL	340 Training Manual
340-MANUAL	340 User's Manual
340-TFBM-MTRJ-XX*	Multimode MT-RJ Test Fiber Box (launch cable) 300 ft/91 m – XX = ST® compatible, SC or FC
340-TFBS-MTRJ-XX*	Single-mode MT-RJ Test Fiber Box (launch cable) 1,000 ft/305 m – XX = ST compatible, SC or FC
340-PARALLEL	Parallel Cable DB25M to DB25M
340-WARRANTY-1	Additional 1-Year Warranty includes one calibration; must be ordered at time of purchase (not sold after shipment)
340-WARRANTY-2	Additional 2-Year Warranty includes two calibrations; must be ordered at time of purchase (not sold after shipment)
340-AC-US/J	AC Power Cord for US and Japan
340-AC-EUROPE	AC Power Cord for Europe
340-AC-UK	AC Power Cord for United Kingdom
340-AC-SWISS	AC Power Cord for Switzerland
340-AC-ITALY	AC Power Cord for Italy
340-AC-AUSTRALIA	AC Power Cord for Australia
340-CHINESE	Chinese Language Option (mainframe)
340-MF-460	10 dB Power Meter Filter

**Other connector types available upon request.*

Ordering Information *(continued)*

Optical Module Options/Accessories

Visual Fault Locator (field-installable option)

340-VFL-FC module

340-VFL-ST compatible module

340-VFL-SC module

OTDR / Source Universal Adapter *(One included with each module; quad includes two.)*

XX Connector Codes[1]	Connector Type	OTDR Adapters	Power Meter Adapters
10	Biconic	UA-10	MA-10
15	DA	UA-15	MA-15
20	SMA 905/906	UA-20	MA-20
25	FC	UA-25	MA-25
30	ST® Compatible	UA-30	MA-30
35	SC	UA-35	MA-35
40	Diamond HP HMS-10	UA-40	MA-40
45	Diamond HMS-0	UA-45	MA-45
50	Diamond HMS-10/A	UA-50	MA-50
60	FC Angle Connector Adapter	UA-60	MA-60
65	SC Angle Connector Adapter	UA-65	MA-65
70	DIN/HRL -10 Angle Connector Adapter	UA-70	MA-70
73	ST Compatible Angle Connector Adapter	UA-73	MA-73
80	Diamond E-2000 Angle Connector Adapter	UA-80	MA-80
85	DIN 47256	UA-85	MA-85
–	FDDI	—	MA-00
90	Diamond GFS-3	—	MA-90

[1]*For LC and MT-RJ connectors, use hybrid test fiber boxes.*

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