

# Model 340

# OTDR Plus™ Multitester II

A LANscape® Solutions Product

## 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 <sup>3</sup> (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

<sup>1</sup>For dynamic range SNR=1. All measurements are typical and made using FC/SPC @ 25°C.

<sup>2</sup>Multimode: 62.5 µm with PC polish; single-mode: Ultra PC with Angle PC polish available.

<sup>3</sup>For MT-RJ, use a hybrid patch cord.

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Corning  
Cable Systems

## Specifications (continued)

Parameter	Specification
<b>Mainframe and General Specifications</b>	
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
<b>Visual Fault Locator Option</b>	
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
<b>Single-mode Laser Source Option</b>	
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)
<b>Power Meter Option</b>	
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.