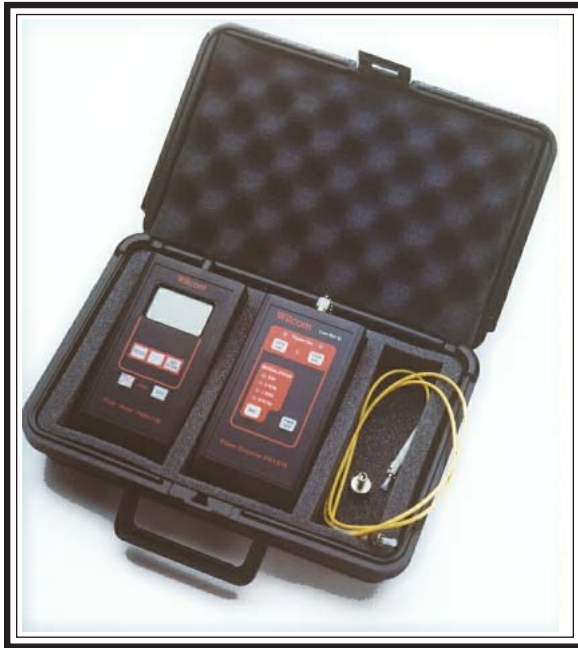


# Optical Loss Test Kits



**LTS-2A**  
**LTS-5**  
**LTS-7**  
**LTS-10**  
**LTS-10C**  
**LTS-11**  
**LTS-12**

## Description

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Fit your application to your budget. Our Optical Loss Test Kits, and Fiber Test Kits combine the dependability and accuracy of our hand-held optical light sources and power meters with a convenient rugged carry case for the field technician. Select from kits containing multiple wavelength sources and meters which are combined for testing a range of networks such as LANs, WANs, IXC, CATV, Telecom and FTTx.

### LTS-2A

The Wilcom LTS-2A Loss Test Set is designed to test multimode fiber. The kit includes an FM8515B Optical Power Meter, FS8513A dual wavelength Optical LED Source, reference cable, adapter(s) and manuals. This economical kit gives the user the accuracy and dependability that field fiber testing demands.

### LTS-5

The Wilcom LTS-5 Loss Test Set is designed to transmit and measure 850 or 1310 nm optical signals through either multimode or singlemode fiber. The kit includes an FM8515B single wavelength Optical Power Meter, FS8514A dual wavelength Optical Laser Source, adapter(s), reference cable and manuals. This versatile moderate cost test kit is ideal for covering a broad range of contingencies in LAN, WAN, multimode and singlemode testing.

### LTS-7

The Wilcom LTS-7 Loss Test Set is designed for multimode and singlemode fiber applications. The kit consists of Wilcom's FM8520 Optical Power Meter with PC / printer output, FS8514A Dual Laser Source, reference cable, adapter(s) and manuals. The FS8514A Dual Laser Source has the output power to test long lengths of fiber, and the FM8520 Optical Power Meter's dB reference measurement capability along with its ability to store 250 readings per wavelength, makes optical cable characterizations a snap! The versatile Loss Test Set can be used for cable identification, end-to-end measurements, splice and connector verification, and general power and transmission testing.

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# Optical Loss Test Kits

MODEL	LTS-2A	LTS-5	LTS-7
<b>Meter</b> Detector Type Measurement Range Calibrated Wavelengths Units Displayed  Adapter Cap	<b>FM8515B</b> InGaAs +5 to -70 dBm 850, 1310, 1550nm dBm, dBr, $\mu$ w, REF  See Available List	<b>FM8515B</b> InGaAs +5 to -70 dBm 850, 1310, 1550nm dBm, dBr, $\mu$ w, REF  See Available List	<b>FM8520</b> InGaAs +5 to -70 dBm 850, 1310, 1550nm dBm, dBr, $\mu$ w, REF PC / Printer Output See Available List
<b>Source</b> Output Wavelength Emitter Type Output Power Connector Type	<b>FS8513A Dual</b> 850 / 1310nm LED -20 dBm, -16 dBm FC, SC, *ST	<b>FS8514A Dual</b> 850 / 1310 nm Laser -8 dBm, -8dBm FC, SC, *ST	<b>FS8514A Dual</b> 850 / 1310 nm Laser -8 dBm, -8dBm FC, SC, *ST
<b>APPLICATION</b>	<b>Multimode/Singlemode</b>	<b>Multimode/Singlemode</b>	<b>Multimode/Singlemode</b>

MODEL		LTS-10	LTS-10C
<b>Meter</b> Detector Type Measurement Range Calibrated Wavelengths Units Displayed  Adapter Cap		<b>FM8515B</b> InGaAs +5 to -70 dBm 850, 1310, 1550nm dBm, dBr, $\mu$ w, REF  See Available List	<b>FM8515C</b> InGaAs +23 to -50 dBm 850, 1310, 1550nm dBm, dBr, mw, REF  See Available List
<b>Source</b> Output Wavelength Emitter Type Output Power Connector Type		<b>FS1316 Dual</b> 1310 / 1550 nm Laser -8 dBm, -8 dBm FC, SC, *ST	<b>FS1316 Dual</b> 1310 / 1550 nm Laser -8 dBm, -8 dBm FC, SC, *ST
<b>APPLICATION</b>		<b>Singlemode</b>	<b>CATV/Singlemode</b>

MODEL	LTS-11	LTS-12	
<b>Meter</b> Detector Type Measurement Range Calibrated Wavelengths Units Displayed  Adapter Cap	<b>FM8520</b> InGaAs +5 to -70 dBm 850, 1310, 1550nm dBm, dBr, $\mu$ w, REF PC / Printer Output See Available List	<b>FM8520</b> InGaAs +5 to -70 dBm 850 1310, 1550 nm dBm, dBr, $\mu$ w, REF PC / Printer Output See Available List	
<b>Source</b> Output Wavelength Emitter Type Output Power Connector Type	<b>FS8513A Dual</b> 850 / 1310 nm LED -20 dBm,-16 dBm FC, *ST	<b>FS1316 Dual</b> 1310 / 1550 nm Laser -8 dBm, -8 dBm FC, SC,*ST	
<b>APPLICATION</b>	<b>Multimode</b>	<b>Singlemode</b>	

### **LTS-10**

The Wilcom LTS-10 Loss Test Set is designed for single mode fiber applications. The kit consists of Wilcom's FM8515B Optical Power Meter, FS1316 Dual Wavelength Laser Source, reference cable, adapter(s) and manuals. The FS1316 Dual Wavelength Laser Source with its single output port has the power to test long lengths of fiber, and the FM8515B Optical Power Meter's dB reference measurement capability makes optical loss measurements a snap. The versatile Loss Test Set can be used for cable identification, end-to-end measurements, splice and connector verification, and general power and transmission testing.

### **LTS-10C**

The Wilcom LTS-10C Loss Test Set is designed for CATV singlemode fiber applications. The kit consists of Wilcom's FM8515C Optical Power Meter-HIGH POWER, FS1316 Dual Wavelength Laser Source, reference cable, adapter(s) and manuals. The FS1316 Dual Wavelength Laser Source has the output power to test long lengths of fiber, and the FM8515C Optical Power Meter's dB reference measurement capability makes optical loss measurements a snap! The versatile Loss Test Set can be used for cable identification, end-to-end measurements, splice and connector verification, and general power and transmission testing.

### **LTS-11**

The Wilcom LTS-11 Loss Test Set is designed for multimode and short distance singlemode fiber networks. The kit consists of Wilcom's FM8520 Optical Power Meter with PC / printer output, FS8513A Dual LED Source, reference cable, adapter(s) and manuals. The FM8520 Optical Power Meter's dB reference measurement capability, along with its ability to store 250 readings per wavelength, makes optical cable characterizations a snap. This kit provides the user the accuracy and dependability that field fiber testing demands.

### **LTS-12**

The Wilcom LTS-12 Loss Test Set is designed for singlemode fiber applications. The kit consists of Wilcom's FM8520 Optical Power Meter with PC / printer output, FS1316 Dual Wavelength Laser Source, reference cable, adapter(s) and manuals. The FS1316 Dual Wavelength Laser Source with its single output port has the power to test long lengths of fiber, and the FM8520 Optical Power Meter's dB reference measurement capability along with its ability to store 250 readings per wavelength, makes optical cable characterizations a snap. The versatile Loss Test Set can be used for cable identification, end-to-end measurements, splice and connector verification, and general power and transmission testing.

### **FTS Kits**

Wilcom's **Fiber Test Kits** provide the ability to launch a stable optical signal and measure it at the end of the cable, or to simply and quickly make optical power level measurements at any point in the network. The Model FM8510 Optical Power Meter offered in the FTS Kits does not include any means of storage or reference power indication. Power level measurements are in dBm.

### **FTS-3B**

The Wilcom FTS-3B Fiber Test Set is designed to test 850nm multimode fiber. The kit includes an FM8510 Optical Power Meter, FS850A LED single wavelength Optical Source, and manuals. This economical kit gives the user the accuracy and dependability that field fiber testing demands for multimode LAN test applications

### **FTS-4B**

The Wilcom FTS-4B Fiber Test Set is designed to test 1310 nm optical signals through either multimode or singlemode fiber. The kit includes an FM8510 multi-wavelength Optical Power Meter, FS1310A LED single wavelength Optical Source, adapter(s) and manuals. The 1310nm center wavelength allows the technician maximum versatility in testing either multimode LANs or short haul singlemode fiber.

### **FTS-9**


The Wilcom FTS-9 Fiber Test Set is designed for multimode and short distance singlemode fiber networks. The kit includes an FM8510 multi-wavelength Optical Power Meter, FS8513A LED dual wavelength Optical Source, adapter(s) and manuals. This kit provides the user the accuracy and dependability that field fiber testing demands.

# Fiber Test Kits

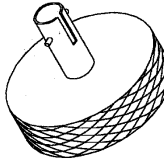
MODEL	FTS-3B	FTS-4B
<b>Meter</b>	<b>FM8510</b>	<b>FM8510</b>
Detector Type	InGaAs	InGaAs
Measurement Range	+5 to -70 dBm	+5 to -70 dBm
Calibrated Wavelengths	850, 1310, 1550nm	850, 1310, 1550nm
Units Displayed	dBm	dBm
Adapter Cap	See Available List	See Available List
<b>Source</b>	<b>FS850A</b>	<b>FS1310A</b>
Output Wavelength	850 nm	1310 nm
Emitter Type	LED	LED
Output Power	-20 dBm	-20 dBm
Connector Type	*ST	FC, SC, *ST
<b>APPLICATION</b>	<b>Multimode</b>	<b>Multimode</b>

MODEL	FTS-9	
<b>Meter</b>	<b>FM8510</b>	
Detector Type	InGaAs	
Measurement Range	+5 to -70 dBm	
Calibrated Wavelengths	850, 1310, 1550nm	
Units Displayed	dBm	
Adapter Cap	See Available List	
<b>Source</b>	<b>FS8513A Dual</b>	
Output Wavelength	850 / 1310 nm	
Emitter Type	LED	
Output Power	-20 dBm, -20 dBm	
Connector Type	FC, SC, *ST	
<b>APPLICATION</b>	<b>Multimode/Singlemode</b>	

**Adapter Caps for: Optical Power Meters; FM8510, FM8515B, FM1317, FM1318 and FM8520**

<u>Description</u>	<u>Wilcom Part Number</u>		<u>Description</u>	<u>Wilcom Part Number</u>
SMA	04419809-01-3	 (ST-style)	Universal Adapter Cap	300031992
ST	04419812-01-4		( accepts any 2.5mm ferrule )	
SC	04419716-01-4		Example: ST, FC, SC, E2000	
FC	04419857-01-2			
Biconic	30031983-01-2			
LC-3207	30032070-01-4			

**Adapter caps for: Optical Power Meter; FM8515C**

<u>Model Number</u>	<u>Description</u>	<u>Wilcom Part Number</u>	
3011	D4	30030118-01-3	 (ST-style)
3013	Biconic (Dorran)	30030134-01-1	
3013P	Biconic (Plastic)	30030135-01-1	
3019	FC	30030191-01-2	
3175	SC	30031752-01-4	
3079	ST	30030792-01-1	
3025	LC	30032052-01-5	

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\*ST is a trademark of AT&T.

## Ordering Information


Model	Connector Option ( Sources )	Wilcom Part Number
<b>LTS-2A</b>	FC w/ battery charger	30LTS211
	FC w/o battery charger	30LTS212
	SC w/ battery charger	30LTS213
	SC w/o battery charger	30LTS214
	ST w/ battery charger	30LTS215
	ST w/o battery charger	30LTS216
<b>LTS-5</b>	FC w/ battery charger	30LTS511
	FC w/o battery charger	30LTS512
	SC w/ battery charger	30LTS513
	SC w/o battery charger	30LTS514
	ST w/ battery charger	30LTS515
	ST w/o battery charger	30LTS516
<b>LTS-7</b>	FC w/ battery charger	30LTS707
	FC w/o battery charger	30LTS708
	SC w/ battery charger	30LTS709
	SC w/o battery charger	30LTS710
	ST w/ battery charger	30LTS711
	ST w/o battery charger	30LTS712
<b>LTS-10</b>	FC w/ battery charger	30LTS510
	FC w/o battery charger	30LTS210
	SC w/ battery charger	30LTS610
	SC w/o battery charger	30LTS310
	ST w/ battery charger	30LTS410
	ST w/o battery charger	30LTS110
<b>LTS-10C</b>	FC w/ battery charger	30LTS411
	FC w/o battery charger	30LTS412
	SC w/ battery charger	30LTS413
	SC w/o battery charger	30LTS414
	ST w/ battery charger	30LTS415
	ST w/o battery charger	30LTS416

## Ordering Information

Model	Connector Option ( Sources )	Wilcom Part Number
<b>LTS-11</b>	FC w/ battery charger	30LTS114
	FC w/o battery charger	30LTS115
	ST w/ battery charger	30LTS118
	ST w/o battery charger	30LTS119
<b>LTS-12</b>	FC w/ battery charger	30LTS121
	FC w/o battery charger	30LTS122
	SC w/ battery charger	30LTS123
	SC w/o battery charger	30LTS124
	ST w/ battery charger	30LTS125
	ST w/o battery charger	30LTS126
<b>FTS-3B</b>	ST w/o battery charger	30FTS310
<b>FTS-4B</b>	FC w/o battery charger	30FTS410
	SC w/o battery charger	30FTS411
	ST w/o battery charger	30FTS412
<b>FTS-9</b>	FC w/ battery charger	30FTS907
	FC w/o battery charger	30FTS908
	SC w/ battery charger	30FTS809
	SC w/o battery charger	30FTS810
	ST w/ battery charger	30FTS911
	ST w/o battery charger	30FTS912

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# Key Specifications

Power Meters	Light Sources	
<b>FM8510, FM8515B, FM8515C, FM8520</b>	<b>FS850A</b>	<b>FS1310A</b>
<b>Calibrated Wavelength</b> : 850 nm : 1310 nm : 1550 nm <b>Wavelength Range</b> : 800 to 1700 nm  <b>Power Range</b> <b>FM8510, FM8515B, FM8520</b> : +5 to -70 dBm <b>FM8515C</b> : +23 to -50 dBm  <b>Resolution</b> : 0.01 dBm <b>Accuracy</b> : ± .25dB <small>(measured at 25°C, 1310nm @ -20dBm)</small>  <b>Long Term Stability</b> 25°C, 50% RH(-10 dBm) : - 0.3 dB <b>Detector Type</b> : InGaAs <b>Storage Temperature</b> : -20 to + 60°C <b>Operating Temperature</b> : 0 to + 50°C <b>Battery Type (Alkaline)</b> : 2 AA <b>Battery Life (cont)</b> : > 80hrs (Alkaline) <b>Battery Charger (optional)</b> <b>Input</b> : 120 VAC/60 Hz <b>Output</b> : 8.7-15 VAC/DC @ >150 mA  <b>Indicators</b> <b>Display</b> : 4 Digit LCD <b>Low Battery</b> : Visual indicator <b>Signal Over Range</b> : Visual indicator <b>Modulation (2kHz)</b> : Visual indicator <b>(FM8520 only)</b>  <b>Dimensions</b> : 3.3 x 6.0 x 1.3 in : 83 x 152 x 33mm <b>Weight (incl. battery)</b> : 0.49 lbs / 220g  <b>Connector Port</b> : Universal  <div style="text-align: center;"></div>	<b>Calibrated Wavelength</b> : 850 nm : 1310 nm <b>Source Type</b> : LED : LED <b>Spectral width</b> : 50 nm: 100 nm <b>Calibration Accuracy</b> 50 μm core : ± 5 dB : ± 5 dB <b>Output power</b> 50 μm core : -20 dBm : -16 dBm 62.5 μm core : -17 dBm : -13 dBm <b>Battery Type</b> : 2 AA : 2 AA <b>Modulation</b> : CW, 2kHz : CW, 2kHz <b>Weight w/ battery</b> : .3 lbs : .3 lbs : 120 g : 120 g <b>Connector Style</b> : *ST  <div style="text-align: center;"><b>FS8513A Dual</b></div> <b>Calibrated Wavelength</b> : 850 nm : 1310 nm <b>Source Type</b> : LED : LED <b>Spectral width</b> : 50 nm: 100 nm <b>Calibration Accuracy</b> 50 μm core : ± 5 dB : ± 5 dB <b>Output power</b> 50 μm core : -20 dBm : -16 dBm 62.5 μm core : -17 dBm : -13 dBm <b>Battery type</b> : AA NiCd or Alkaline <b>Modulation</b> : CW, 2kHz <b>Connector Style</b> : FC, SC, *ST  <div style="text-align: center;"><b>FS1316 Dual</b></div> <b>Calibrated Wavelength</b> : 1310 nm : 1550 nm <b>Source Type</b> : Laser : Laser <b>Single Port</b> <b>Spectral width</b> : 10 nm: 10 nm <b>Accuracy</b> : ± 10 nm : ± 10 nm <b>Output power</b> : -8 dBm : -8 dBm <b>Modulation</b> : CW, 270Hz, 1kHz, & 2kHz <b>Battery Type (Alkaline)</b> : 2 AA <b>Battery Life</b> : > 20hrs (Alkaline) <b>Connector Style</b> : FC, SC, *ST  <div style="text-align: center;"><b>FS8514A Dual</b></div> <b>Calibrated Wavelength</b> : 850 nm : 1310 nm <b>Source Type</b> : Laser : Laser <b>Spectral width</b> : 10 nm: 10 nm <b>Accuracy</b> : ± 20 nm : ± 20 nm <b>Output power</b> : -7 dBm MM : -7 dBm SM : -3 dBm MM <b>Modulation</b> : CW, 270Hz, 1kHz, & 2kHz <b>Operating temp</b> : 0 to +40°C <b>Storage temp</b> : -20 to +50°C <b>Battery type</b> : AA NiCd or Alkaline <b>Battery Life</b> : > 20hrs (Alkaline) <b>Dimensions</b> : 6.3x3.3x1.3 in	
<div style="text-align: center;"><b>Warranty</b></div> <p>Wilcom's Fiber Optic Test Instruments are warranted for a period of one year to be free from defects in material and workmanship.</p>		
<div style="text-align: center;"><b>ISO-9001:2000</b></div> <div style="text-align: center;"><b>Registered</b></div>		
<small>*ST is a trade mark of AT&amp;T.</small>		