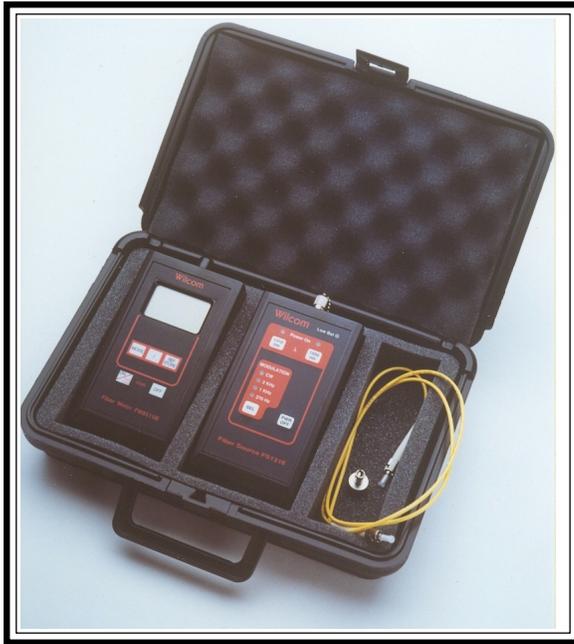


Optical Loss Test Kits



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

Description

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, and Telecom.

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

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

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

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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.

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Fiber Test Kits

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

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

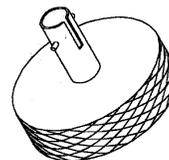
Available Adapter Caps for: Optical Power Meters; FM8510, FM8515B, and FM8520

| Description | Wilcom Part Number | Description | Wilcom Part Number |
|-------------|--------------------|--------------------------------------------------------------------------------------|--------------------|
| SMA | 04419809 | Universal Adapter Cap (accepts any 2.5mm ferrule) Example: ST, FC, SC, E2000 | 300031992 |
| ST | 04419812 | | |
| SC | 04419716 | | |
| FC | 04419857 | | |
| Biconic | 30031983 | | |



Available Adapter caps for: Optical Power Meter; FM8515C

| Model Number | Description | Wilcom Part Number |
|--------------|-------------------|--------------------|
| 3011 | D4 | 30030118 |
| 3013 | Biconic (Dorran) | 30030134 |
| 3013P | Biconic (Plastic) | 30030135 |
| 3019 | FC | 30030191 |
| 3175 | SC | 30031752 |
| 3079 | ST | 30030792 |



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Ordering Information

| Model | Connector Option (Sources) | Wilcom Part Number |
|----------------|---------------------------------|-----------------------|
| LTS-2A | 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 |
| LTS-5 | 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 |
| LTS-7 | 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 |
| LTS-10 | 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 |
| LTS-10C | 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 |
|---------------|---------------------------------|-----------------------|
| LTS-11 | FC w/ battery charger | 30LTS114 |
| | FC w/o battery charger | 30LTS115 |
| | ST w/ battery charger | 30LTS118 |
| | ST w/o battery charger | 30LTS119 |
| | | |
| LTS-12 | 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 |
| FTS-3B | ST w/o battery charger | 30FTS310 |
| FTS-4B | FC w/o battery charger | 30FTS410 |
| | SC w/o battery charger | 30FTS411 |
| | ST w/o battery charger | 30FTS412 |
| FTS-9 | 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 |

Wilcom

Key Specifications

| Power Meters | Light Sources | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| FM8510, FM8515B, FM8515C, FM8520 | FS850A | FS1310A |
| Calibrated Wavelength : 850 nm : 1310 nm : 1550 nm Wavelength Range : 800 to 1700 nm Power Range FM8510, FM8515B, FM8520 : +5 to -70 dBm FM8515C : +23 to -50 dBm Resolution : 0.01 dBm Accuracy : ± .25dB <small>(measured at 25°C, 1310nm @ -20dBm)</small> Long Term Stability 25°C, 50% RH(-10 dBm) : - 0.3 dB Detector Type : InGaAs Storage Temperature : -20 to + 60°C Operating Temperature : 0 to + 50°C Battery Type (Alkaline) : 2 AA Battery Life (cont) : > 80hrs (Alkaline) Battery Charger (optional) Input : 120 VAC/60 Hz Output : 8.7-15 VAC/DC @ >150 mA Indicators Display : 4 Digit LCD Low Battery : Visual indicator Signal Over Range : Visual indicator Modulation (2kHz) : Visual indicator (FM8520 only) Dimensions : 3.3 x 6.0 x 1.3 in : 83 x 152 x 33mm Weight (incl. battery) : 0.49 lbs / 220g Connector Port : Universal  | Calibrated Wavelength : 850 nm : 1310 nm Source Type : LED : LED Spectral width : 50 nm : 100 nm Calibration Accuracy 50 µm core : ± 5 dB : ± 5 dB Output power 50 µm core : -20 dBm : -16 dBm 62.5 µm core : -17 dBm : -13 dBm Battery Type : 2 AA : 2 AA Modulation : CW, 2kHz : CW, 2kHz Weight w/ battery : .3 lbs : .3 lbs : 120 g : 120 g Connector Style : *ST <p style="text-align: center;">FS8513A Dual</p> Calibrated Wavelength : 850 nm : 1310 nm Source Type : LED : LED Spectral width : 50 nm : 100 nm Calibration Accuracy 50 µm core : ± 5 dB : ± 5 dB Output power 50 µm core : -20 dBm : -16 dBm 62.5 µm core : -17 dBm : -13 dBm Battery type : AA NiCd or Alkaline Modulation : CW, 2kHz Connector Style : FC, SC, *ST <p style="text-align: center;">FS1316 Dual</p> Calibrated Wavelength : 1310 nm : 1550 nm Source Type : Laser : Laser Single Port Spectral width : 10 nm : 10 nm Accuracy : ± 10 nm : ± 10 nm Output power : -8 dBm : -8 dBm Modulation : CW, 270Hz, 1kHz, & 2kHz Battery Type (Alkaline) : 2 AA Battery Life : > 20hrs (Alkaline) Connector Style : FC, SC, *ST <p style="text-align: center;">FS8514A Dual</p> Calibrated Wavelength : 850 nm : 1310 nm Source Type : Laser : Laser Spectral width : 10 nm : 10 nm Accuracy : ± 20 nm : ± 20 nm Output power : -7 dBm MM : -7 dBm SM : -3 dBm MM Modulation : CW, 270Hz, 1kHz, & 2kHz Operating temp : 0 to +40°C Storage temp : -20 to +50°C Battery type : AA NiCd or Alkaline Battery Life : > 20hrs (Alkaline) Dimensions : 6.3x3.3x1.3 in | |
| <h2 style="color: red;">Warranty</h2> <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> <h2 style="color: red;">ISO-9001 Registered</h2> <small>*ST is a trade mark of AT&T.</small> | | |

Specifications and prices are subject to change without notice. 12/01, 812-283-009

