

Site Master™

Handheld Cable & Antenna Analyzer Featuring Classic and Advanced Modes

S331L

2.0 MHz to 4.0 GHz Cable & Antenna Analyzer
50 MHz to 4.0 GHz Power Meter

Introduction

Anritsu introduces its ninth generation, compact handheld Cable & Antenna Analyzer for installation and maintenance of antenna systems.

Optimized for field use

- > 8 Hour Battery Life
- Instant On from Standby Mode
- Highest RF Immunity
- Built-in InstaCal™ Module
 - Fast, One-connection Calibration
- FlexCal™ Calibration
 - One Calibration for All Frequencies
- Built-in Power Meter
- Rugged and Reliable
- Impact, Dust, and Splash Resistant
- Smallest, Lightest Site Master™

Easy to use

- Integrated Help Function
- S331D-like Classic Mode
- S331E-like Advanced Mode
 - Additional Markers
 - Customizable Shortcuts
 - Full-screen View
- Multiple USB Ports
- 800 x 480 7" TFT Touch Screen
 - Alphanumeric Keyboard
 - EZ Name Quick Matrix
- Backlit Keypad

Efficient sweep management

- Internally Store >1000 Files
 - Sweeps, Setups, Screen Shots
- Fast Preview of Stored Sweeps
- Line Sweep Tools (LST) Software
 - Edit Sweeps, Rename, Archive
 - Generate PDF or HTML Reports
- Standard *.dat Sweep File Format
- Compatible with HHST
 - Widely Accepted by Operators
- SweepMasters DIRECT
 - Online Trace Delivery Service



Site Master™ S331L Cable & Antenna Analyzer Featuring 7.0" Daylight Viewable Touch Screen
Compact Size: 250 mm x 177 mm x 61 mm (10.0 in x 7.1 in x 2.4 in), Lightweight: < 2.0 kg (4.4 lb)


Cable and Antenna Analyzer

All specifications and characteristics apply to revision 1 instruments under the following conditions, unless otherwise stated: 1) Instrument within its recommended calibration cycle, 2) After 5 minutes of warm-up time, where the instrument has completely stabilized to the ambient temperature, 3) Internal frequency reference used, 4) Cable analyzer and VNA measurements applicable after standard OSL calibration is performed using Anritsu calibration components, 5) Typical data does not include guard band for measurement uncertainty and temperature variation and is not warranted, 6) All specifications subject to change without notice, 7) Recommended calibration cycle is 12 months.

Measurements

| | |
|--------------|---|
| Measurements | VSWR Return Loss Cable Loss (One Port) Distance-to-Fault (DTF) Return Loss Distance-to-Fault (DTF) VSWR |
|--------------|---|

Setup Parameters–Classic Mode

| | |
|---------------------|---|
| Measurement Display | Single Display with independent markers |
| Frequency | F1/F2 |
| DTF | D1/D2, DTF Aid, Cable Loss, Propagation Velocity, Cable type |
| Windowing | Rectangular, Normal Side Lobe, Low Side Lobe, Minimum Side Lobe |
| Amplitude | Top, Bottom Auto Scale, Full Scale |
| Sweep | Data Points, Run/Hold, Single/Continuous, RF Immunity (High/Low) |
| Data Points | 130, 259, 517, 1033 |
| Markers | Markers 1 to 6 (On/Off), Delta Markers 2 to 4 (Ref M1), Marker to Peak/Valley, Marker Table, Marker 5 (Peak/Valley between M1 & M2), Marker 6 (Peak/Valley between M3 & M4) |
| Traces | Copy Trace To Memory, Trace Display, Trace Math |
| Limit Line | On/Off, Edit Value, Limit Alarm, Pass/Fail On/Off, Limit Preset |
| Calibration | Cal Type OSL/Standard/FlexCal™/InstaCal™ |
| Save/Recall | Setups, Measurements, Screen Shots |

Setup Parameters–Advanced Mode

| | |
|---------------------|---|
| Measurement Display | Single Display with independent markers |
| Frequency | Start Frequency (F1), Stop Frequency (F2) |
| DTF | Start Distance (D1), Stop Distance (D2), Units m/ft, DTF Aid, Cable List, Cable Loss, Propagation Velocity |
| Windowing | Rectangular, Normal Side Lobe, Low Side Lobe, Minimum Side Lobe |
| Amplitude | Top, Bottom, Auto Scale, Full Scale |
| Sweep | Data Points, Run/Hold, Single/Continuous, RF Immunity (High/Low) |
| Data Points | 130, 259, 517, 1033 |
| Markers | Markers 1 to 8 (On/Off), Delta Markers 2 to 8 (Ref M1), Marker to Peak/Valley, Marker Table, Marker 5 & 7 (Peak/Valley between M1 & M2), Marker 6 & 8 (Peak/Valley between M3 & M4) |
| Traces | Copy Trace to Memory, Trace Display, Trace Math |
| Limit Line | On/Off, Edit Value, Limit Alarm, Pass/Fail On/Off, Limit Preset |
| Calibration | Cal Type OSL/Standard/FlexCal™/InstaCal™ |
| Save/Recall | Setups, Measurements, Screen Shots |

Frequency

| | |
|----------------------|------------------------|
| Frequency Range | 2 MHz to 4 GHz |
| Frequency Accuracy | ± 5 ppm @ 23 °C ± 3 °C |
| Frequency Resolution | 1 kHz |

Power

| | |
|--------------|-----------------|
| Output Power | +3 dBm, typical |
|--------------|-----------------|

Interference Immunity

| | |
|--------------|--|
| On-Channel | +17 dBm outside calibrated sweep range |
| On-Frequency | +13 dBm within calibrated sweep range |

Measurement Speed

| | |
|-------------------|--|
| Return Loss | ≤ 1.50 ms/data point, RF immunity low, typical |
| Distance-to-Fault | ≤ 1.75 ms/data point, RF immunity low, typical |



Cable and Antenna Analyzer (continued)

Return Loss

Measurement Range Resolution 0 to 60 dB
0.01 dB

VSWR

Measurement Range 1 to 65
Resolution 0.01

Cable Loss

Measurement Range 0 to 30 dB
Resolution 0.01 dB

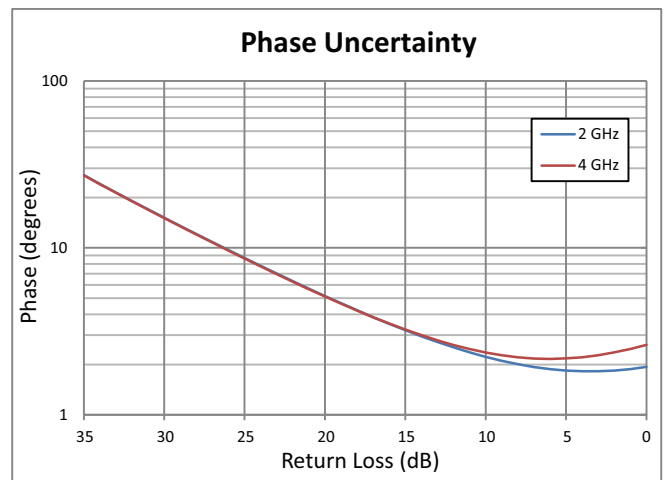
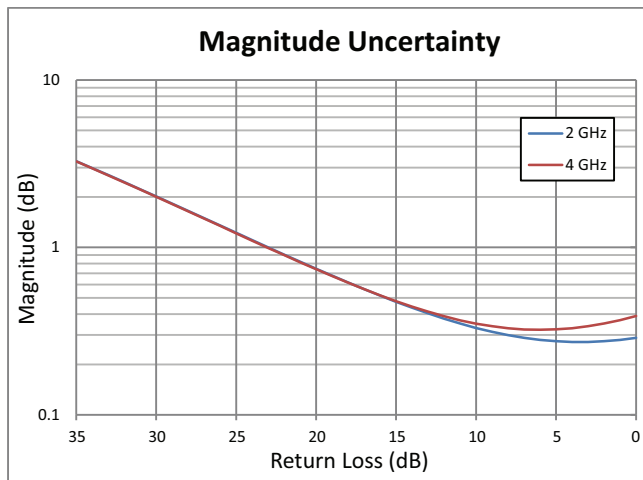
Distance-to-Fault

Vertical Range Return Loss 0 to 60 dB
Vertical Range VSWR 1 to 65
Fault Resolution (meters) $(1.5 \times 10^8 \times v_p) / \Delta F$ (v_p = propagation velocity, ΔF is $F_2 - F_1$ in Hz)
Horizontal Range (meters) 0 to (Data Points - 1) x Fault Resolution, to maximum of 1500 meters (4921 feet)

Measurement Accuracy

@ 23 °C ± 3 °C
Corrected Directivity ≥ 38 dB, InstaCal™ calibration
≥ 42 dB, OSL calibration (OSLN50-1, OSLNF50-1)

Return Loss Measurement Uncertainty



Internal Power Meter

| | |
|----------------------------------|--|
| Amplitude | Maximum, Minimum, Offset, Relative On/Off, Units, Auto Scale |
| Average | Running Average, Max Hold On/Off, Run/Hold, Average Mode Cont/Single |
| Limits | Limit On/Off, Limit Upper/Lower |
| Frequency Range | 50 MHz to 4 GHz |
| Display Range | -100 dBm to +100 dBm |
| Measurement Range | -33 dBm to +20 dBm |
| Offset Range | Max ± 100 dB, user settable value |
| VSWR | 1.5:1 typical |
| Maximum Power | +27 dBm, ± 45 VDC (damage level) |
| Connector | Type N(m), 50 Ω |
| Accuracy | ± 0.7 dB (0 dBm, 1 GHz CW, @ 23 °C ± 3 °C) |
| Frequency Response and Linearity | Additional ± 0.8 dB (± 0.5 dB typical) |
| Temperature Effect | Additional ± 0.02 dB per 1 °C change (typical) |

General Specifications

Setup Parameters

| | |
|-----------------------------|---|
| System Info | Status, Battery |
| System Setups | Date/Time, Language, Display/Audio |
| Date/Time | Day, Month, Year, Time |
| Language | English, French, German, Italian, Spanish, Russian, Portuguese, Japanese, Korean, Chinese |
| Display/Audio | Brightness, Color Schemes, Screen Shot Settings, Volume |
| Diagnostics | Self Test |
| Preset | Preset, Reset |
| Reset | Factory Reset, Master Reset, Update Firmware |
| File | Save, Recall, File Management |
| File Management | Rename, Create Folder, Copy, Paste, Delete, Navigation |
| Navigation | Top, Bottom, Page Up, Page Down |
| Save | Measurement (*.dat), Setup (*.stp), Screen Shot (*.png) |
| Internal Trace/Setup Memory | > 1000 files (files may be traces, setups, screen shots, or any combination) |
| External Trace/Setup Memory | Limited only by size of USB Flash drive |

Connectors

| | |
|-----------------------|--|
| RF Out/Reflect In | Type N, female, 50 Ω, Maximum Input +23 dBm, ± 50 VDC |
| InstaCal™/Power Meter | Type N, male, 50 Ω, Maximum Input +27 dBm, ± 45 VDC (Damage Level) |
| External Power | 5.5 mm barrel connector, 11 to 14 VDC, < 3.0 A |
| USB Ports | USB 2.0 Type A (two ports) |
| USB Interface | Type mini-B, Connect to PC for data transfer |

Display

| | |
|------------|----------------------------------|
| Type | TFT Resistive Touch Screen |
| Size | 7.0" daylight viewable color LCD |
| Resolution | 800 x 480 |

Battery

| | |
|-------------------|---|
| Type | Li-Ion |
| Battery Operation | > 8.0 Hours typical (70 % brightness setting, continuous usage) |

Electromagnetic Compatibility

| | |
|---------------------------|--|
| European Union | CE Mark, EMC Directive 89/336/EEC, 92/31/EEC, 93/68/EEC and Low Voltage Directive 73/23/EEC, 93/68/EEC |
| Interference | EN 61326-1 |
| Emissions | EN 55011 |
| Immunity | EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-11 |
| Australia and New Zealand | C-tick N274 |

Safety

| | |
|----------------|--|
| Safety Class | EN 61010-1 Class 1 |
| Product Safety | IEC 60950-1 when used with Company supplied Power Supply |

Environmental

| | |
|-----------------------|------------------------|
| Operating Temperature | -10 °C to +55 °C |
| Maximum Humidity | 95 % non-condensing |
| Altitude | 4600 meters |
| Shock | MIL-PRF-28800F Class 2 |
| Storage | -40 °C to 71 °C |

Size and Weight

| | |
|--------|---|
| Size | 250 mm x 177 mm x 61 mm (10.0 in x 7.1 in x 2.4 in) |
| Weight | < 2.0 kg (4.4 lb), including battery |

 **Anritsu Tool Box and Line Sweep Tools** (for your PC)

Line Sweep Tools (LST) is a free PC based program that increases productivity for people who deal with numerous Cable and Antenna traces every day. LST is the next generation of Anritsu's familiar Handheld Software Tools (HHST) and shares its uncomplicated user interface, giving a new face to the term "ease of use."

| | |
|--------------------------------------|---|
| Cable Editor ¹ | Instrument Cable Lists may be retrieved from the instrument, modified as required, and uploaded back into instrument. |
| Distance to Fault ² (DTF) | Easily convert Return Loss or VSWR traces to Distance to Fault traces with one button press. |
| Measurement Calculator | Provides quick conversion between commonly used measurement units such as VSWR, RL, and others. |
| Signal Standard Editor ¹ | Signal Standard Lists may be retrieved from the instrument, modified as required, and uploaded back into instrument. |
| Naming Grid | A naming grid function makes changing file names, trace titles, and trace subtitles from field values to those required by contract simple and quick. Once the naming grid is populated with user defined file name segments, a few simple button presses will then fill out the file, title, and sub-title names. Quickly applied to multiple traces, the naming grid can save time, increase efficiency and accuracy. |
| Presets | Presets make applying markers and a limit line to similar traces quick and easy. They only need to be set once, and recorded. After this, applying them to a similar trace requires only one button push. This speeds up trace processing and makes providing consistent marker and limit line settings easy. |
| Report Generator | The report generator creates a professional PDF or HTML based report. Reports may include GPS ³ location, power level ³ , company logo ⁴ , instrument and calibration status along with a display of all open traces. It also may contain additional information such as addresses and phone numbers. |
| Capture | Plots to Screen, Database, *.dat, *.jpg |
| Connect | To PC using USB, Ethernet, Serial |
| Download/Upload ¹ | Lists/measurements and live traces to PC for storage and analysis. |
| Supported File Types | Input: *.dat, *.vna, *.mna, *.pim, *.tm Output: *.dat, *.vna, *.pim, *.tm, *.csv, *.bmp, *.jpg, *.png |

SweepMasters DIRECT

SweepMasters DIRECT is an easy-to-use online trace delivery service for your S331L cable and antenna analyzer traces. When used with the S331L, it allows you to capture, upload, and deliver traces.

| | |
|----------------------|--|
| Standard Functions | Create Groups, Modify Groups, Create Sites, Modify Sites, View Sites, Create Users, Modify Users, Add Users, Modify Company Profile, Upload Traces, View Trace list, Send Traces |
| Supported File Types | S331L *.dat file format |
| Export Data | Send download link from selected Site to recipients via email. Download link contains single zip file. Zip file contains all of the selected Site uploaded *.dat files and a pdf containing plots of the included *.dat files. |

1. Instrument type/model must match original
 2. Only *.dat and *.vna file types supported
 3. Model dependent
 4. Optionally set by user

Ordering Information

Model Number

S331L

Description



Includes all items listed in the description

Cable and Antenna Analyzer - 2 MHz to 4 GHz
Internal InstaCal™ - 2 MHz to 4 GHz
Internal Power Meter - 50 MHz to 4 GHz

Calibration and Extended Warranty Options

Warranty

Warranty with Z540 Calibration

Description

S331L-ES210

N/A

Warranty Extension to 2 Years, Return to Anritsu

S331L-ES310

S331L-ES313

Warranty Extension to 3 Years, Return to Anritsu

S331L-ES510

S331L-ES513

Warranty Extension to 5 Years, Return to Anritsu

Calibration Only Options

Option

Description

S331L-0098

Standard Calibration to Z540

S331L-0099

Premium Calibration to Z540 plus test data

Other Site Master™ Models From Anritsu (more data available at www.anritsu.com)

S331E
2 MHz to 4 GHz



S361E
2 MHz to 6 GHz

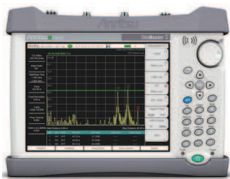


Cable & Antenna Analyzers

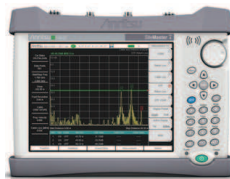
Cable & Antenna Analyzer Features

2 MHz to 4 GHz (S331E), 2 MHz to 6 GHz (S361E)
2204 Data Points, 8.4" TFT Touch Screen, Dual Display Capability, Smith Chart Display
Optional 2-port Tx Measurements
Optional GPS
Optional Bias Tee
Optional High Accuracy Power Meter (requires external USB sensor sold separately)

S332E
2 MHz to 4 GHz
100 kHz to 4 GHz SPA



S362E
2 MHz to 6 GHz
100 kHz to 6 GHz SPA



Cable & Antenna Analyzers with Integrated Spectrum Analyzer

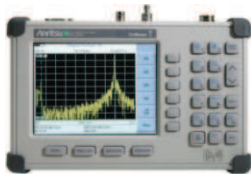
Cable & Antenna Analyzer Features

2 MHz to 4 GHz (S332E), 2 MHz to 6 GHz (S362E)
2204 Data Points, 8.4" TFT Touch Screen, Dual Display Capability, Smith Chart Display
Optional 2-port Tx Measurements
Optional GPS
Optional Bias Tee
Optional High Accuracy Power Meter (requires external USB sensor sold separately)

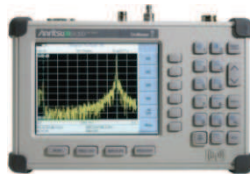
Spectrum Analyzer Features

100 kHz to 4 GHz (S332E), 100 kHz to 6 GHz (S362E)
Optional Interference Analysis with Interference Mapping Spectrogram, Signal ID
Optional Coverage Mapping
Optional AM/FM/PM Analysis
Optional Channel Scanner

S810D
2 MHz to 10.5 GHz



S820D
2 MHz to 20 GHz



Microwave Cable & Antenna Analyzers

Microwave Cable & Antenna Analyzer Features

2 MHz to 10.5 GHz (S810D) 2 MHz to 20 GHz (S820D)
Available 2-port Transmission Measurements
Supports Waveguide Measurements

Standard Accessories

(included with instrument)



Part Number Description

- 10920-00060 Handheld Instruments Documentation Disc
- 2300-530 Anritsu Tool Box with Line Sweep Tools (LST) DVD Disc
- 11410-00616 Site Master™ S331L Technical Data Sheet
- 10580-00321 Site Master™ S331L User Guide (Hard copy)
- 2000-1676-R Soft Carrying Case
- 2000-1691-R Stylus with Coiled Tether
- 2000-1687-R Torque Multiplier N(m)
- 40-187-R AC-DC Adapter
- 806-141-R Automotive Cigarette Lighter 12 VDC Adapter
- 3-2000-1498 USB A/5-pin mini-B Cable, 305 cm (120 in)
- One Year Warranty
- Certificate of Calibration and Conformance

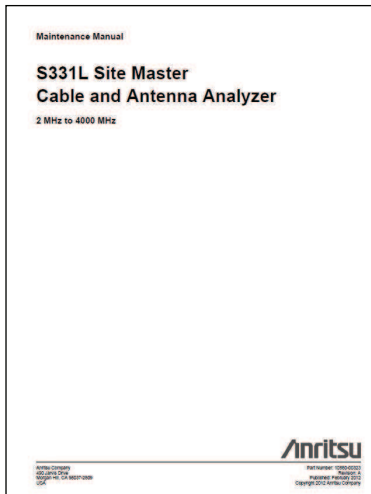
Recommended Spare Accessories (not included)



Part Number Description

- 2000-1691-R Replacement Stylus with coiled tether
- 2000-1687-R Replacement Torque Multiplier N(m)

Manuals



Part Number Description

- 10580-00253 Site Master™ S331L Maintenance Manual

Optional Accessories

Calibration Components, 50 Ω



| Part Number | Description |
|-------------|--|
| OSLN50-1 | Precision Open/Short/Load, N(m), 42 dB, 6.0 GHz, 50 Ω |
| OSLNF50-1 | Precision Open/Short/Load, N(f), 42 dB, 6.0 GHz, 50 Ω |
| 2000-1618-R | Precision Open/Short/Load, 7/16 DIN(m), DC to 6.0 GHz 50 Ω |
| 2000-1619-R | Precision Open/Short/Load, 7/16 DIN(f), DC to 6.0 GHz 50 Ω |
| 22N50 | Open/Short, N(m), DC to 18 GHz, 50 Ω |
| 22NF50 | Open/Short, N(f), DC to 18 GHz, 50 Ω |
| SM/PL-1 | Precision Load, N(m), 42 dB, 6.0 GHz |
| SM/PLNF-1 | Precision Load, N(f), 42 dB, 6.0 GHz |

Calibration Components, 75 Ω



| Part Number | Description |
|-------------|--|
| 12N50-75B | Matching Pad, DC to 3 GHz, 50 Ω to 75 Ω |
| 22N75 | Open/Short, N(m), DC to 3 GHz, 75 Ω |
| 22NF75 | Open/Short, N(f), DC to 3 GHz, 75 Ω |
| 26N75A | Precision Termination, N(m), DC to 3 GHz, 75 Ω |
| 26NF75A | Precision Termination, N(f), DC to 3 GHz, 75 Ω |

Adapters



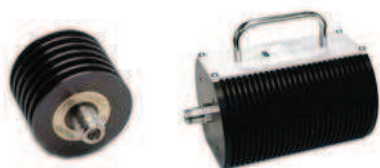
| Part Number | Description |
|-------------|--|
| 510-90-R | 7/16 DIN(f) to N(m), DC to 7.5 GHz, 50 Ω |
| 510-91-R | 7/16 DIN(f) to N(f), DC to 7.5 GHz, 50 Ω |
| 510-92-R | 7/16 DIN(m) to N(m), DC to 7.5 GHz, 50 Ω |
| 510-93-R | 7/16 DIN(m) to N(f), DC to 7.5 GHz, 50 Ω |
| 510-96-R | 7/16 DIN(m) to 7/16 DIN(m), DC to 7.5 GHz, 50 Ω |
| 510-97-R | 7/16 DIN(f) to 7/16 DIN(f), DC to 7.5 GHz, 50 Ω |
| 1091-379-R | 7/16 DIN(f) to 7/16 DIN(f), DC to 6 GHz, 50 Ω with Reinforced Grip |
| 510-102-R | N(m) to N(m), DC to 11 GHz, 50 Ω, 90 degrees right angle |
| 1091-26-R | SMA(m) to N(m), DC to 18 GHz, 50 Ω |
| 1091-27-R | SMA(f) to N(m), DC to 18 GHz, 50 Ω |
| 1091-80-R | SMA(m) to N(f), DC to 18 GHz, 50 Ω |
| 1091-81-R | SMA(f) to N(f), DC to 18 GHz, 50 Ω |
| 1091-172-R | BNC(f) to N(m), DC to 1.3 GHz, 50 Ω |

Precision Adapters



| Part Number | Description |
|-------------|---|
| 34NN50A | Precision Adapter, N(m) to N(m), DC to 18 GHz, 50 Ω |
| 34NFN50 | Precision Adapter, N(f) to N(f), DC to 18 GHz, 50 Ω |

Attenuators



| Part Number | Description |
|-------------|---|
| 3-1010-122 | 20 dB, 5 W, DC to 12.4 GHz, N(m) to N(f) |
| 42N50-20 | 20 dB, 5 W, DC to 18 GHz, N(m) to N(f) |
| 42N50A-30 | 30 dB, 50 W, DC to 18 GHz, N(m) to N(f) |
| 3-1010-123 | 30 dB, 50 W, DC to 8.5 GHz, N(m) to N(f) |
| 1010-127-R | 30 dB, 150 W, DC to 3 GHz, N(m) to N(f) |
| 3-1010-124 | 40 dB, 100 W, DC to 8.5 GHz, N(m) to N(f), Unidirectional |
| 1010-121 | 40 dB, 100 W, DC to 18 GHz, N(m) to N(f), Unidirectional |
| 1010-128-R | 40 dB, 150 W, DC to 3 GHz, N(m) to N(f) |

Optional Accessories (continued)

Phase-Stable Test Port Cables, Armored w/ Reinforced Grip (recommended for cable & antenna line sweep applications)



| Part Number | Description |
|----------------|---|
| 15RNFN50-1.5-R | 1.5 m, DC to 6 GHz, N(m) to N(f), 50 Ω |
| 15RDFN50-1.5-R | 1.5 m, DC to 6 GHz, N(m) to 7/16 DIN(f), 50 Ω |
| 15RDN50-1.5-R | 1.5 m, DC to 6 GHz, N(m) to 7/16 DIN(m), 50 Ω |
| 15RNFN50-3.0-R | 3.0 m, DC to 6 GHz, N(m) to N(f), 50 Ω |
| 15RDFN50-3.0-R | 3.0 m, DC to 6 GHz, N(m) to 7/16 DIN(f), 50 Ω |
| 15RDN50-3.0-R | 3.0 m, DC to 6 GHz, N(m) to 7/16 DIN(m), 50 Ω |

Interchangeable Adapter Phase Stable Test Port Cables, Armored w/Reinforced Grip (recommended for cable and antenna line sweep applications. It uses the same ruggedized grip as the reinforced grip series cables. Now you can also change the adapter interface on the grip to four different connector types)



| Part Number | Description |
|---------------|--|
| 15RCN50-1.5-R | 1.5 m, DC to 6 GHz, N(m), N(f), 7/16 DIN(m), 7/16 DIN(f), 50 Ω |
| 15RCN50-3.0-R | 3.0 m, DC to 6 GHz, N(m), N(f), 7/16 DIN(m), 7/16 DIN(f), 50 Ω |

Phase-Stable Test Port Cables, Armored (ideal for use with tightly spaced connectors and other general use applications)



| Part Number | Description |
|--------------|---|
| 15NNF50-1.5C | 1.5 m, DC to 6 GHz, N(m) to N(f), 50 Ω |
| 15NN50-1.5C | 1.5 m, DC to 6 GHz, N(m) to N(m), 50 Ω |
| 15NDF50-1.5C | 1.5 m, DC to 6 GHz, N(m) to 7/16 DIN(f), 50 Ω |
| 15ND50-1.5C | 1.5 m, DC to 6 GHz, N(m) to 7/16 DIN(m), 50 Ω |
| 15NNF50-3.0C | 3.0 m, DC to 6 GHz, N(m) to N(f), 50 Ω |
| 15NN50-3.0C | 3.0 m, DC to 6 GHz, N(m) to N(m), 50 Ω |

Backpack and Transit Case



| Part Number | Description |
|-------------|---|
| 67135 | Anritsu Backpack (For Handheld Instrument and PC) |
| 760-256-R | Large Transit Case with Wheels and Handle |



The Master Users Group is an organization dedicated to providing training, technical support, networking opportunities and links to Master product development teams. As a member you will receive the Insite Quarterly Newsletter with user stories, measurement tips, new product news and more.

Visit us to register today: www.anritsu.com/mug



To receive a quote to purchase a product or order accessories visit our online ordering site: www.ShopAnritsu.com

Training at Anritsu

Anritsu has designed courses to help you stay up to date with technologies important to your job. For available training courses visit: www.anritsu.com/training



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