6100-Cu[™]

The Smarter Copper Tester Specifications

Multifunction TDRs



6100-Cu

The smarter copper tester

THE PERFECT TOOL FOR COPPER NETWORK TESTING

The 6100-Cu is designed for the installation, maintenance and repair of voice and DSL circuits. Its easy-to-use menus, rugged design and small form factor make it the ideal tool for network technicians. The large, color, touch-screen display and multiple connection options add to its ease of use and the optional TDR and RFL/K-test allow service providers to scale the product based on existing or new methods and procedures.

With the 6100-Cu, the testing process is highly automated, enabling technicians to close jobs off quickly and efficiently. To automate, standardize and simplify the job of the installation and repair technician for all copper broadband networks



RADIODETECTION"

COPPER SPECIFICATIONS ^{a, b, c}				
Transmitter characteristics				
Frequency range 200 Hz to 20 kHz	Frequency resolution		1 Hz steps	
	Frequency uncertaint	y (accuracy)	± (50 ppm + 1 Hz)	
	Level range (dBm)		-20 to 10 at 600Ω	
	Level resolution		0.1 dB	
	Level uncertainty (ac	curacy)	±1 dB	
	Impedance (Ω)		600	
Frequency range 20 kHz to 2.2 MHz	Frequency resolution		1 kHz steps	
	Frequency uncertaint	y (accuracy)	±(50 ppm + 100 Hz)	
	Level range (dBm)		-20 to 10 at 100 Ω	
	Level resolution		0.1 dB	
	Level uncertainty (ac	curacy)	±1 dB	
	Impedance (Ω)		100, 120, 135, 150	
Frequency range (2.2 MHz to 30 MHz)	Frequency resolution		1 kHz steps	
	Frequency uncertainty (accuracy)		± (50 ppm + 100 Hz)	
	Level range (dBm)		-20 to 0 at 100	
	Level resolution		0.1 dB	
	Level uncertainty (ac	curacy)	±1 dB	
	Impedance (Ω)		100, 120, 135, 150	
Receiver characteristics				
	Reception Frequency	/ range	200 Hz to 20 kHz	
			20 kHz to 35 MHz	
	Frequency uncertaint	y range (accuracy)	\pm (50 ppm + 1 digit) for 20 ki	HZ to 30 MHZ
	VF reception level rai	nge (aBm)	-90 to 15 at 6000	
	VF level uncertainty (accuracy)		tointy (accuracy) 12 dP
			50 dBm to 15 dBm uncerta	inty (accuracy) ± 2 dB
	WB reception level ra	ange (dBm)	-90 to 15 at 1000 and 1350	
	WB level uncertainty		20 kHz to 2.2 MHz	•
		(accuracy)	-90 dBm to -50 dBm uncert	tainty (accuracy) +2 dB
			-50 dBm to 15 dBm, uncerta	ainty (accuracy) ±1 dB
			2.2 MHz to 30 MHz	
			-90 dBm to -50 dBm, uncert	tainty (accuracy) ±2 dB
			-50 dBm to 15 dBm, uncerta	ainty (accuracy) ±1 dB
	Impedance (Ω)		100, 120, 135, 150, 600	
POTS dialer	DTMF		0 - 9, #,*	
	Phonebook		25 entries	
Digital multimeter (DMM)	Test type		Snapshot and continuous	
	Impedance selection	(for voltage measurement)	100 kΩ, 1 MΩ	
	Measurement	Range	Resolution	Uncertainty (accuracy)
	DC voltage	0 to 400 V	0.1 V for 0 to 99.9 V	±(1% + 0.5 VDC)
			1 V for 100 V to 400 V	
	AC voltage	0 to 280 Vrms	0.1 V for 0 to 99.9 V	±(1% + 0.5 VAC)
			1 V for 100 V to 280 V	
	Isolation resistance	0 to 1 GΩ, auto-ranging	Three digits	
Notes	(stress/leakage)	1 kΩ to 99 MΩ		±(2% + 1 digit)
a. Subject to change without		100 MΩ to 999 MΩ		±(5% + 1 digit)
b. Typical, at 23 °C ± 3 °C, on batteries, with no type B USB	Resistance	0 to 100 MΩ	Three digits	
		0 to 999 Ω		$\pm (1\% + 5 \Omega)$
c. Specifications based on 24	Concoltance		Four digito	$\pm (2\% + 1 \text{ digit})$
AWG (PE 0.5 mm) cabling.				$\pm (2\% + 50 \text{ pr})$
		0 to 110 mA	0.1 mA	$\pm (2\% + 1 \text{ mA})$
	AC Current Station ground		U. I IIIA	±(∠% + 1 IIIA) 0
	Station ground	0 to 999 0		+(1% + 3.0)
		1 kΩ to 1 MΩ		$\pm (2\% + 1 \text{ diait})$

6100-Cu Specifications

COPPER SPECIFICATIONS ", ", " (co	ontinued)	
Isolation resistance (stress/leakage) (continued)	Source	50 to 500 VDC (current safety limited to 2 mA)
	Soak timer (s)	1 to 60
VF noise measurement	Frequency range	200 Hz to 20 kHz
	Level range (dBm)	-90 to 20
	Resolution (dB)	0.1
	Uncertainty (accuracy)	-90 dBm to -50 dBm, uncertainty (accuracy) ±2 dB
		-50 dBm to +20 dBm, uncertainty (accuracy) ±1 dB
	Filters	ITU: none, psophometric, P-notched, 3.4 kHz, D-filter, 15 kHz
		ANSI: none, C-message, C-notched, 3.4 kHz, D-filter, 15 kHz
	Impedance	600 Ω
VF impulse noise	Low threshold (dBm)	-40 to 0, in 1 dB steps
	Mid threshold	Low threshold plus separation
	High threshold	Mid threshold plus separation
	Separation (dB)	1 to 6, in 1 dB steps
	Dead time (ms)	125
	Filters	None, 3 kHz flat, C-message, psophometric, notched and D filter (IEEE 743-1995)
	Counter	Maximum 999 for each threshold
	Timer	Maximum 100 hours
Power influence (noise to ground)	Noise range (dBm)	-60 to 10
	Uncertainty (accuracy)	-60 dBm to -50 dBm ± 2 dB
		-50 dBm to 10 dBm ± 1 dB
VF longitudinal balance	Frequency (Hz)	1004
	Level range (dB)	0 to 100
	Level uncertainty (accuracy) (dB)	±1
	Impedance	600 Ω
Time-domain reflectometer (TDR)	Modes	Automatic, Manual, Peak, Xtalk (Crosstalk), Differential
	Distance range (m)	0 to 6700 (0 ft to 22 000 ft)
	Pulse width	15 ns to 20 us
	Amplitude	7.5 V p-p on cable, 9 V p-p open circuit
	Velocity of propagation (VOP)	0.400 to 0.999
	Distance uncertainty (accuracy) ^d (m)	±(0.5 m + 1 % x distance)
	Units	Meters and feet
Load coil detection	Count	Up to 5
	Plot (kHz)	Up to 10
	Distance range (m)	Up to 8000 (up to 27 000 ft)

Notes

- a. Subject to change without notice.
- b. Typical, at 23 °C ± 3 °C, on batteries, with no type B USB connection.
 c. Specifications based on 24 AWG (PE 0.5 mm) cabling.
 d. Qualified up to 300 m (1000 ft)
- and does not include the uncertainty due to VOP.

6100-Cu Specifications

Near-end crosstalk (NEXT)Frequency range10 kHz to 30 MHzLevel range0 to 90 dBLevel resolution0.1 dBLevel uncertainty (accuracy)2.2 MHz: ±2.0 dB, from 0 to 90 dB8 MHz: ±2.0 dB, from 0 to 80 dB12 MHz: ±2.0 dB, from 0 to 75 dB17.6 MHz: ±3.0 dB, from 0 to 75 dBTerminations100, 120, 135, 150 ΩReturn lossTest typeFrequency range20 kHz to 2.2 MHzDynamic range0 dB to 40 dBResolution0.1 dBUncertainty (accuracy)4.210 kHz to 2.2 MHzLevel uncertainty (accuracy)10.5 dB, for dynamic range 0 dB to 20 dBHarinations0.1 dBUncertainty (accuracy)±0.5 dB, for dynamic range 0 dB to 20 dBHarinations0.1 dBUncertainty (accuracy)±0.5 dB, for dynamic range 0 dB to 20 dB	COPPER SPECIFICATIONS ^{a, b, c} (continued)			
Level range0 to 90 dBLevel resolution0.1 dBLevel uncertainty (accuracy)2.2 MHz: ±2.0 dB, from 0 to 90 dB8 MHz: ±2.0 dB, from 0 to 80 dB12 MHz: ±2.0 dB, from 0 to 75 dB12 MHz: ±3.0 dB, from 0 to 75 dB30 MHz: ±3.0 dB, from 0 to 68 dBTerminations100, 120, 135, 150 ΩReturn lossTest typeFrequency range20 kHz to 2.2 MHzDynamic range0 dB to 40 dBResolution0.1 dBUncertainty (accuracy)±0.5 dB, for dynamic range 0 dB to 20 dBHorizaptal acela4.3126 kHz to 2.2 MHzHorizaptal acela4.3126 kHz to 2.2 MHz	Near-end crosstalk (NEXT)	Frequency range	10 kHz to 30 MHz	
Level resolution0.1 dBLevel uncertainty (accuracy)2.2 MHz: ±2.0 dB, from 0 to 90 dB8 MHz: ±2.0 dB, from 0 to 80 dB12 MHz: ±2.0 dB, from 0 to 75 dB12 MHz: ±2.0 dB, from 0 to 75 dB17.6 MHz: ±3.0 dB, from 0 to 75 dB30 MHz: ±3.0 dB, from 0 to 68 dB30 MHz: ±3.0 dB, from 0 to 68 dBTerminations100, 120, 135, 150 ΩFrequency range20 kHz to 2.2 MHzDynamic range0 dB to 40 dBResolution0.1 dBUncertainty (accuracy)±0.5 dB, for dynamic range 0 dB to 20 dBHarianntal acala4.2125 kHz at ange		Level range	0 to 90 dB	
Level uncertainty (accuracy)2.2 MHz: ±2.0 dB, from 0 to 90 dB8 MHz: ±2.0 dB, from 0 to 80 dB12 MHz: ±2.0 dB, from 0 to 75 dB12 MHz: ±2.0 dB, from 0 to 75 dB17.6 MHz: ±3.0 dB, from 0 to 75 dB30 MHz: ±3.0 dB, from 0 to 68 dB30 MHz: ±3.0 dB, from 0 to 68 dBTerminations100, 120, 135, 150 ΩFrequency range20 kHz to 2.2 MHzDynamic range0 dB to 40 dBResolution0.1 dBUncertainty (accuracy)±0.5 dB, for dynamic range 0 dB to 20 dBHarianntal acale4.2125 kHz to 2.2 MHz		Level resolution	0.1 dB	
8 MHz: ±2.0 dB, from 0 to 80 dB12 MHz: ±2.0 dB, from 0 to 75 dB17.6 MHz: ±3.0 dB, from 0 to 75 dB30 MHz: ±3.0 dB, from 0 to 75 dB30 MHz: ±3.0 dB, from 0 to 68 dBTerminations100, 120, 135, 150 ΩReturn lossTest typeSingle, SweepFrequency range20 kHz to 2.2 MHzDynamic range0 dB to 40 dBResolution0.1 dBUncertainty (accuracy)±0.5 dB, for dynamic range 0 dB to 20 dBHarianntal page		Level uncertainty (accuracy)	2.2 MHz: ±2.0 dB, from 0 to 90 dB	
12 MHz: ±2.0 dB, from 0 to 75 dB 17.6 MHz: ±3.0 dB, from 0 to 75 dB 30 MHz: ±3.0 dB, from 0 to 75 dB 30 MHz: ±3.0 dB, from 0 to 68 dB Terminations 100, 120, 135, 150 Ω Return loss Test type Single, Sweep Frequency range 20 kHz to 2.2 MHz Dynamic range 0 dB to 40 dB Resolution 0.1 dB Uncertainty (accuracy) ±0.5 dB, for dynamic range 0 dB to 20 dB Hariapping			8 MHz: ±2.0 dB, from 0 to 80 dB	
Image: Provide the second s			12 MHz: ±2.0 dB, from 0 to 75 dB	
30 MHz: ±3.0 dB, from 0 to 68 dB Terminations 100, 120, 135, 150 Ω Return loss Test type Single, Sweep Frequency range 20 kHz to 2.2 MHz Dynamic range 0 dB to 40 dB Resolution 0.1 dB Uncertainty (accuracy) ±0.5 dB, for dynamic range 0 dB to 20 dB Harizental acolo 4.2125 kHz at one			17.6 MHz: ±3.0 dB, from 0 to 75 dB	
Terminations 100, 120, 135, 150 Ω Return loss Test type Single, Sweep Frequency range 20 kHz to 2.2 MHz Dynamic range 0 dB to 40 dB Resolution 0.1 dB Uncertainty (accuracy) ±0.5 dB, for dynamic range 0 dB to 20 dB Harizental coole 4.2125 kHz to 2.2 MHz to 2.0 MHz			30 MHz: ±3.0 dB, from 0 to 68 dB	
Return loss Test type Single, Sweep Frequency range 20 kHz to 2.2 MHz Dynamic range 0 dB to 40 dB Resolution 0.1 dB Uncertainty (accuracy) ±0.5 dB, for dynamic range 0 dB to 20 dB Hariapathal page 4.2125 kHz to 2.2 MHz in 4.2125 kHz stope		Terminations	100, 120, 135, 150 Ω	
Frequency range 20 kHz to 2.2 MHz Dynamic range 0 dB to 40 dB Resolution 0.1 dB Uncertainty (accuracy) ±0.5 dB, for dynamic range 0 dB to 20 dB Harianntal apple 4.2125 kHz to 2.2 MHz in 4.2125 kHz atops	Return loss	Test type	Single, Sweep	
Dynamic range 0 dB to 40 dB Resolution 0.1 dB Uncertainty (accuracy) ±0.5 dB, for dynamic range 0 dB to 20 dB Hariagettal apple 4.2125 kHz to 2.2 MHz, in 4.2125 kHz atops		Frequency range	20 kHz to 2.2 MHz	
Resolution 0.1 dB Uncertainty (accuracy) ±0.5 dB, for dynamic range 0 dB to 20 dB Hariaantal acolo 4.2125 kHz to 2.2 MHz, in 4.2125 kHz store		Dynamic range	0 dB to 40 dB	
Uncertainty (accuracy) ±0.5 dB, for dynamic range 0 dB to 20 dB		Resolution	0.1 dB	
Horizontal coole 4 2125 kHz to 2 2 MHz in 4 2125 kHz atons		Uncertainty (accuracy)	±0.5 dB, for dynamic range 0 dB to 20 dB	
		Horizontal scale	4.3125 kHz to 2.2 MHz , in 4.3125 kHz steps	
Vertical scale 0 dB to 50 dB		Vertical scale	0 dB to 50 dB	
Power spectral density (PSD) Test type Continuous with peak-hold	Power spectral density (PSD)	Test type	Continuous with peak-hold	
Termination Bridging (Hi-Z), 100, 120, 135, 150 Ω		Termination	Bridging (Hi-Z), 100, 120, 135, 150 Ω	
Vertical scale 15 dBm/Hz to140 dBm/Hz or 20 dBm to -90 dBm		Vertical scale	15 dBm/Hz to140 dBm/Hz or 20 dBm to -90 dBm	
Horizontal scale 4.3125 kHz to 17 MHz, in 4.3125 kHz steps or		Horizontal scale	4.3125 kHz to 17 MHz, in 4.3125 kHz steps or	
8.625 kHz to 35 MHz, in 8.625 kHz steps			8.625 kHz to 35 MHz, in 8.625 kHz steps	
Noise filters None or E, F, G, ADSL2+, VDSL2-8, VDSL2-12, VDSL2-12, VDSL2-17, VDSL2-30 and VDSL2-35b		Noise filters	None or E, F, G, ADSL2+, VDSL2-8, VDSL2-12, VDSL2- 17, VDSL2-30 and VDSL2-35b	
Wideband impulse noise Threshold -50 dBm (40 dBm) to 0 dBm (90 dBm) in 1 dB steps	Wideband impulse noise	Threshold	-50 dBm (40 dBm) to 0 dBm (90 dBm) in 1 dB steps	
Termination Bridging (Hi-Z), 100, 120, 135, 150 Ω		Termination	Bridging (Hi-Z), 100, 120, 135, 150 Ω	
Counter maximum 65 000 000		Counter maximum	65 000 000	
Test duration Maximum 100 hours		Test duration	Maximum 100 hours	
Uncertainty (accuracy) (dB) ±2		Uncertainty (accuracy) (dB)	±2	
Noise filtersNone or E, F, G, ADSL2+, VDSL2-8, VDSL2-12, VDSL2- 17 and VDSL2-30		Noise filters	None or E, F, G, ADSL2+, VDSL2-8, VDSL2-12, VDSL2- 17 and VDSL2-30	
Wideband longitudinal Level scale 0 to 100 dB balance 0 to 100 dB 0 to 100 dB	Wideband longitudinal balance	Level scale	0 to 100 dB	
Level range uncertainty (accuracy) 2.2 MHz: ±2.0 dB, from 0 to 55 dB		Level range uncertainty (accuracy)	2.2 MHz: ±2.0 dB, from 0 to 55 dB	
8 MHz: ±2.0 dB, from 0 to 45 dB			8 MHz: ±2.0 dB, from 0 to 45 dB	
12 MHz: ±3.0 dB, from 0 to 45 dB			12 MHz: ±3.0 dB, from 0 to 45 dB	
17.6 MHz: ±3.0 dB, from 0 to 40 dB			17.6 MHz: ±3.0 dB, from 0 to 40 dB	
Level resolution 0.1 dB		Level resolution	0.1 dB	
Frequency scale ADSL2+: 8.6 kHz to 2.2 MHz, in 8.6 kHz steps VDSL2-8 : 17.25 kHz to 8 MHz, in 17.25 kHz steps VDSL2-12: 17.25 kHz to 12 MHz, in 17.25 kHz steps VDSL2-17: 34.5 kHz to 17.6 MHz, in 34.5 kHz steps		Frequency scale	ADSL2+: 8.6 kHz to 2.2 MHz, in 8.6 kHz steps VDSL2-8 : 17.25 kHz to 8 MHz, in 17.25 kHz steps VDSL2-12: 17.25 kHz to 12 MHz, in 17.25 kHz steps VDSL2-17: 34.5 kHz to 17.6 MHz, in 34.5 kHz steps	
Frequency uncertainty (accuracy) ±(50 ppm + 1 digit)		Frequency uncertainty (accuracy)	±(50 ppm + 1 digit)	

Notes

a. Subject to change without

b. Typical, at 23 °C ± 3 °C, on batteries, with no type B USB

connection. c. Specifications based on 24 AWG (PE 0.5 mm) cabling.

6100-Cu Specifications

COPPER SPECIFICATIONS ^{a, b, c} (continued)		
Single-ended frequency response (attenuation) ^d	Distance range (m)	100 m to 5000 m (300 ft to 16 000 ft)
	Frequency range (Hz)	4.3 kHz to 35 MHz
	Frequency uncertainty (accuracy)	±(50 ppm + 1 digit) for 20 kHz to 30 MHz
	Level uncertainty (accuracy) (dB)	±2.0 dB typical for 2.2 MHz and 8 MHz ranges
		±3.0 dB for VDSL2-12 and VDSL2-17
		±4.0 dB for VDSL2-30 ranges
	Resolution (dB)	0.1
	Horizontal scale (MHz)	ADSL2+ = 2.208, VDSL2-8, VDSL2-12 = 12, VDSL2-17 = 17.66, VDSL2-30 = 30, VDSL2-35= 35
	Vertical scale (dB)	0 to +100
Resistive fault location (RFL)	Test type	Single pair (two wire), separate good pair (four wire) and Küpfmuller (K-test)
	Fault detection (MΩ)	0 to 20 for single faults; up to a total fault resistance of 30 for K-test double faults only
	Resolution	Three digits
	Loop resistance (kΩ)	10 maximum
	Multiple cable sections	Five (includes gauge and temperature setting)
	Fault location	Total resistance, near-end to fault resistance, fault to strap resistance (three significant digits, least significant digit 0.1 Ω)
		Total length, distance to fault, distance from fault to strap (three significant digits, least significant digit 1 m)
	Single fault uncertainty (accuracy)	±(0.1 Ω + 1% RTS)
	K-test uncertainty (accuracy) e	±(1 Ω + 1 % RTS)
Stressed Balance	Level range	0 to 82 dBrnC
	Resolution	0.1 dBrnC
	Longitudinal excitation	135 VDC (0 dBm, ±1 dB reproducibility)

Notes

- a. Subject to change without
- b. Typical, at 23 °C ± 3 °C, on batteries, with no type B USB connection.
- c. Specifications based on 24
- AWG (PE 0.5 mm) cabling.
- d. Specification based on 1 kft 24 AWG cabling. Range depends on cable type and condition.
- e. For double faults only.

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GENERAL SPECIFICATIONS	
Display	Touchscreen TFT LCD with backlight
	152 mm (6 in) diagonal
	800 x 480 resolution, WVGA
Test connections	Five-color banana connector for T/A, RIB, G, T1/A1, R1/B1
Results management	> 2 GB internal memory
	Single and bulk file export to USB memory devices
Temperature operating	0 °C to 40 °C (32 °F to 104 °F)
storage	-20 °C to 60 °C (-4 °F to 140 °F)
Humidity	5 % to 95 % relative, non-condensing
Shock	1 m (39 in) drop per GR-196-CORE
Altitude	3000 m (9842 ft)
Input power	12 VDC, 4.16 A, 48 W via 90-220 VAC adapter or 12 V vehicle adapter
Battery	Internal rechargeable Lithium polymer, with battery-state and level indications, adjustable auto-power down
Safety	CE and CSA marked
Size (H x W x D)	254 mm x 124 mm x 62 mm (10 in x 4 7/8 in 2 7/16 in)
Weight (with battery)	1.5 kg (3.3 lb)
Water/dust ingress	Designed to comply with IP54
Differential voltage protection	354 Vrms or 1000 VDC max
Common mode voltage protection	354 Vrms or 1000 VDC
Voltage detection	>20 V will trigger alarm message
Self-test	Routine on power-up
Connectivity	Two USB 2.0 client ports
	One USB Type B host port
	Optional WiFi support
Languages	English, French, German, Spanish, Dutch

STANDARD ACCESSORIES	
Test cables	Three-color (black, red, green) 4 mm banana plugs terminated with 4 mm plugs with crocodile clips Part number: 10/6100-CABLE-M4MMRBG
AC power adapter	Part number: 10/6100-MCHARGER
Certificate of Compliance	

OPTIONAL ACCESSORIES	
Teletech TS125 Far-End Device	Part number: 10/6100-TS125
Copper test cables	Yellow/blue banana connectors to 4 mm plugs/croc clips Part number: 10/6100-CABLE-M4MMYB
RFL strap	Part number: 10/6100-RFL-STRAP
High Impedance (Hi-Z) test cable	Requires WBAND software option. Part number: 10/6100-CABLE-PSD-NOISE-HIZ
2.4 GHz WiFi Pico Adapter	Part number: 10/6100-WIFI-ADAPT
12 V vehicle charger	Part number: 10/6100-ACHARGER
USB host/client cable	Part number: 10/6100-HOST-CLIENT-USB
MAX-600 screen protector film (Pack of 2)	Part number: 10/6100-SCREEN-PROTECT

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