

SIDEKICK® PLUS ADSL FED

TECHNICAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS

Size:	4.6 x 3.1 x 1 in (11.68 x 7.87 x 2.54 cm)
Weight (w/battery):	0.36 lbs (165gm)
Operating Temperature:	-18° C to +60° C (0° F to 140° F)
Storage Temperature:	-40° C to +75° C (-40° F to 167° F)
Battery Life:	Approximately 24 hours of typical use
Battery Shelf Life:	6 months
Replacement Battery:	9 Volt Alkaline

OPERATION WITH THE SIDEKICK® PLUS

The Sidekick Plus FED can operate in conjunction with the Sidekick Plus to perform the following measurements:

- K-Test: Far-End-Device straps the pair under test
- TDR: Far-End-Device can alternately short and open the pair to verify the end-of-line
- Noise: Far-End-Device provides a line termination
- Loss: Far-End-Device provides single or multiple reference tones
- Longitudinal Balance: Far-End-Device provides an IEEE 455-1985 Longitudinal Balanced Termination
- Autotest: The Sidekick Plus manages the operation of the Far-End-Device during the test sequence



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ELECTRICAL SPECIFICATIONS

Strap Resistance:	A/Tip - B/Ring: <0.2Ω A/Tip - T/Gnd: <0.2Ω B/Tip - T/Gnd: <0.2Ω
Input Impedance:	> 100MΩ - A/Tip to B/Ring > 100MΩ - A/Tip to T/Gnd
Voltage Rating:	AC Volts: 150VAC DC Volts: 250VDC
Trace Tones:	Type: Metallic Frequencies: 577Hz and 1004Hz, alternating pulsed Output Impedance: 600Ω Amplitude: 8 Volts Peak-to-Peak with no load.
Single and Stepped Tones:	400Hz to 100kHz, Sinewave <ul style="list-style-type: none"> • OdBm ± 0.5dB • Output Impedance: <ul style="list-style-type: none"> • 600Ω: 400Hz < frequency < 20kHz • 135Ω: 20kHz < frequency < 100kHz 100kHz to 1.1MHz, Sinewave <ul style="list-style-type: none"> • OdBm ± 1.0dB • Output Impedance: 135Ω: 100kHz < frequency < 1.1MHz
Tone Output Impedance:	400Hz to 1.1MHz
Longitudinal Balance Termination:	<ul style="list-style-type: none"> • IEEE 455-1985 • Termination limited to 1 Volt peak • Max longitudinal voltage: 8V peak-peak T/G or R/G • Metallic Impedance: 736Ω
Longitudinal Impedance:	2,184Ω
Metallic Terminations:	600Ω ± 6.0Ω 135Ω ± 1.3Ω

ENVIRONMENTAL

- WEEE
- RoHS
- IP ingress object/water: 3/0

RATING

- Protection Category “0” (formerly known as CAT-I)

CONNECTIVITY & TEST LEADS

- Removable, snag resistant RJ45 termination
- Blue Pair: Primary measurement pair and used by the Sidekick Plus to send DTMF command strings to the FED
- Red Pair: Secondary measurement pair
- Yellow Pair: Used for CO/Premise isolation and reconnection
- Green Lead: Connects to the cable Ground for pair to Ground measurements

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