



"Results You Can Count On"

Model 700 Series Multi-Standard/Multi-Channel Local Loop Simulators

- **Multiple wire types to choose from:**
 - **26 AWG PIC as specified in ANSI T1.417**
 - 0 to 24,000 ft/25-ft steps
 - **0.4mm PE as specified in ETSI TS 101 388**
 - 0 to 9,000 m/10-m steps
 - **PE04 as specified in G.991.2 Annex B (G.shdsl) or ETSI TS 101 524**
 - 0- 8,000/50-m steps
 - **TP100 as specified in ETSI TS 101 270-1 & G.992.5 Annex M**
 - 0 to 9,000 m/10-m steps
- **Bandwidth DC to 30 MHz**
- **Solution for G.shdsl, ADSL, ADSL2, ADSL2+, & VDSL2 chip/modem/DSLAM testing**
- **Highly accurate, lab grade instrument with fine increments for a variety of applications such as Bonding and Rate/Reach**



*Available in
8, 12 and 16-channel versions*

The Model 700 Series products are multi-standard/multi-channel local loop simulators and are the ideal solution for G.shdsl, ADSL, ADSL2, ADSL2+, and VDSL2 chip/modem/DSLAM testing. The highly accurate models in this series are offered in several different configurations, including combinations of wire types, in 8, 12 or 16-channels.

The 700 Series models offer fine granularity and long line lengths.



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Ordering Options

MODEL NUMBER	SIMULATION										
	#Chs	Wire Type	Line Length/ Increment		#Chs	Wire Type	Line Length/ Increment		#Chs	Wire Type	Line Length/ Increment
700-8-26	8	26AWG	0-24,000ft/ 25-ft								
700-12-26	12	26AWG	0-24,000ft/ 25-ft								
700-16-26	16	26AWG	0-24,000ft/ 25-ft								
700-8-04	8	0.4mm PE	0-9,000m/ 10-m	OR	8	PE04	0-8,000m/ 50-m				
700-12-04	12	0.4mm PE	0-9,000m/ 10-m	OR	12	PE04	0-8,000m/ 50-m				
700-16-04	16	0.4mm PE	0-9,000 m/ 10-m	OR	16	PE04	0-8,000m/ 50-m				
700-8-TP100	8	TP100*	0-9,000m/ 10-m								
700-12-TP100	12	TP100*	0-9,000m/ 10-m								
700-16-TP100	16	TP100*	0-9,000m/ 10-m								
700-4-26-4-04	4	26AWG	0-24,000ft/ 25-ft	&	4	0.4mm PE	0-9,000m/ 10-m	OR	4	PE04	0-8,000m/ 50-m
700-6-26-6-04	6	26AWG	0-24,000ft/ 25-ft	&	6	0.4mm PE	0-9,000m/ 10-m	OR	6	PE04	0-8,000m/ 50-m
700-8-26-8-04	8	26AWG	0-24,000ft/ 25-ft	&	8	0.4mm PE	0-9,000m/ 10-m	OR	8	PE04	0-8,000m/ 50-m
700-4-04-4-TP100	4	0.4mm PE	0-9,000m/ 10-m	OR	4	PE04	0-8,000m/ 50-m	&	4	TP100 *	0-9,000m/ 10-m
700-6-04-6-TP100	6	0.4mm PE	0-9,000m/ 10-m	OR	6	PE04	0-8,000m/ 50-m	&	6	TP100 *	0-9,000m/ 10-m
700-8-04-8-TP100	8	0.4mm PE	0-9,000m/ 10-m	OR	8	PE04	0-8,000m/ 50-m	&	8	TP100 *	0-9,000m/ 10-m

* TP100 wire is the same diameter as 0.5mm wire



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Specifications

Product Specifications	
Simulation	<ul style="list-style-type: none"> • Accurately simulates attenuation and impedance • Full bidirectional operation at all specified frequencies • Wire Types Available <ul style="list-style-type: none"> ○ 26 AWG PIC as specified in ANSI T1.417 ○ 0.4mm PE as specified in ETSI TS 101 388 ○ PE04 as specified in G.991.2 Annex B (G.shdsl) or ETSI TS 101 524 ○ TP100 as specified in ETSI TS 101 270-1 & G.992.5 Annex M
Bandwidth	DC to 30 MHz
Attenuation Accuracy	<ul style="list-style-type: none"> • 26AWG, TP-100, 0.4mm PE: MAE < 1 dB 20 kHz to 30 MHz (when source and load impedances are 100 ohms) • PE04: MAE < 1 dB 5 kHz to 2 MHz (when source and load impedances are 135 ohms)
Maximum Attenuation	> 90 dB
Impedance Accuracy	<ul style="list-style-type: none"> • 26AWG, TP-100, 0.4mm PE: Typically +/- 10% 20 kHz to 30 MHz • PE04: Typically +/-10% 5 kHz to 2 MHz
Maximum Voltage Tip – Ring	200 V
Maximum Current	130 mA
Connectors	<p>Front: 16, 24 or 32 RJ-45's (2 for each loop, for CO/CPE connection)</p> <p>Back: RS-232: DB9 female (DCE); GPIB:IEEE488 24-pin connector. Ethernet: RJ-45</p>
Controls	Keypad for setting loop lengths and IEEE-488 address, RS-232, or Ethernet communication parameters.
Indicators	Backlit LCD display of line length and set up parameters.
Power	88 to 264 VAC, 50 or 60 Hz
Size	[7U] 19 in W x 22 in D x 12.22 in H (482.6 mm W x 558.8 mm D x 310.4 mm H)
Environmental	Operating: +32 F to +122 F (0 to +50 degrees C) Storage: 0 to 95% relative humidity (non-condensing)

Specifications are subject to change without notice. Made in USA.