

Adjusting Line Reversal Slew Rate on Teltone's Telephone Line Emulators

With the aid of simple external adapters, Teltone's Telephone Line Emulator (TLE) can be used to reproduce the line reversal slew rates described in British Telecom Document SIN 242.

Important: This test is meant to duplicate various loading effects for long distribution lines and is not a specification for the slew rate at the Central Office.

The schematic below illustrates the circuitry required to vary the slew rate. See the table for typical slew rates produced by using various component values. Component values should be adjusted to produce the desired slew rate.

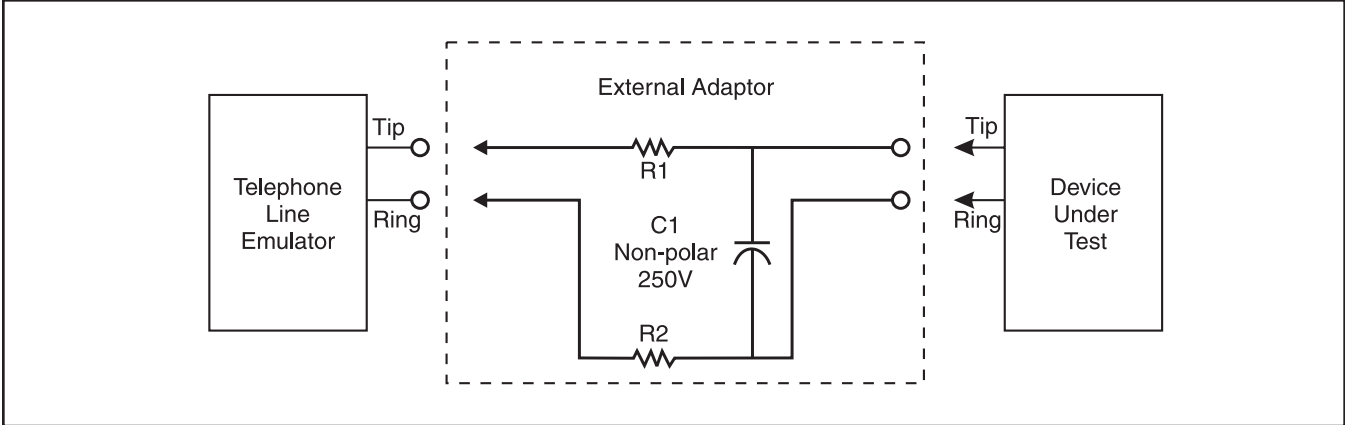


Figure 1 Adapter Schematic

Table 1 SIN 242 Slew Rates			
Slew Rate Produced	C1	R1	R2
500 S @ 70V	0.5 μ F	0 Ω	0 Ω
5 ms @ 50V	0.5 μ F	300 Ω	300 Ω
30 mS @ 15V	8.0 μ F	300 Ω	300 Ω

Note: Capacitors must be non-polarized, and at least 250V rated.

Reference

- British Telecom SIN 242 Issue 2, November 1996
- CDS™ Calling Line Identification Service
- Terminal Equipment Requirements
- Part 1 Idle State, Down Stream Signaling
- Part 2 Loop State Signaling