



# APPLICATION Note

**TELECOM SOLUTIONS FOR THE 21ST CENTURY**

**1600A Series & E-30/E-30-EWP Telephone Line Specifications**

March 10, 2003

## 1600A Series and E-30 Telephone Line Specifications for Operation



**Important:** This document must be used in combination with the **1600A Series** or **E-30 Technical Practice**.

Some phone systems do not conform to analog telecom standards and might not be compatible with the **1600A Series** emergency phones. Please check to make sure your phone system follows **ALL** of the specifications **A - E**

listed below. If you have further questions, please contact Viking Technical Support at 715-386-8666.

### Specifications

#### A. Busy Signal for Automatic Disconnect / Dial Additional Numbers

**Minimum Signal Level:** -22dbm  
**Minimum Number of Busy Pulses:** 7  
**Frequency Range:** 300-2000 Hz

**Standard Busy Cadence:** Minimum: 450ms ON/OFF  
Maximum: 550ms ON/OFF  
**Fast Busy Cadence:** Minimum: 150ms ON/OFF  
Maximum: 300ms ON/OFF

#### B. Ringback Signal for Dialing Additional Numbers

**Minimum Signal Level:** -22dbm  
**Frequency Range:** 300-2000 Hz  
**Minimum Number of Rings:** Programmable 2-9 or disabled

**Ringback Cadence:** Minimum: 1 sec ON, 1 sec OFF  
Maximum: 2.5 secs ON, 5 secs OFF

#### C. CPC (Calling Party Control) Break for Automatic Disconnect

**Note:** CPC - Calling Party Control (Disconnect Supervision) is a short break in the line current in the called party's phone line when the calling party hangs up. Not available on PABX's.

**Minimum CPC Length:** 450ms

**Maximum CPC Length:** Unlimited

#### D. Return to Dial Tone for Automatic Disconnect

**Minimum Signal Level:** -22dbm

**Frequency Range:** 300-2000 Hz

#### E. Ring Signal for Automatic Answer

**Minimum Ring Voltage at 20Hz:** 30VAC RMS

**Minimum Ring Voltage at 30Hz:** 25VAC RMS

**Product Support Line... 715.386.8666**

**Fax Back Line... 715.386.4345**

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