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P.S.C. No. 22 -- Telephone  
Custom Network Services  
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Section 2  
Leaf No. 16  
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## SECTION 2 - GENERAL REGULATIONS

### 2.7 CONNECTIONS (Cont'd)

#### 2.7.5 Minimum Protection Criteria (Cont'd)

#### B. All Connections (Cont'd)

##### 1. (Cont'd)

##### a. Metallic Voltage

###### (1) 4 kHz to 270 kHz

<u>Center Frequency (f) of 8 kHz Band</u>	<u>Maximum Voltage in All 8 kHz Bands</u>	<u>Terminating Impedance</u>
8 kHz to 12 kHz	- (6.4+12.6 log f) dBV*	300 ohms
12 kHz to 90 kHz	(23 - 40 log f) dBV	135 ohms
90 kHz to 266 kHz	- 55 dBV	135 ohms

\* dBV = 20 log<sub>10</sub> voltage in volts

- (2) The root-mean-square (RMS) value of the metallic voltage components in the frequency range of 270 kHz to 6 MHz shall, averaged over 2 microseconds, not exceed -15 dBV. This limitation applies with a metallic termination having an impedance of 135 ohms.

##### b. Longitudinal Voltage

###### (1) 4 kHz to 270 kHz

<u>Center Frequency (f) of 8 kHz Band</u>	<u>Maximum Voltage in All 8 kHz Bands</u>	<u>Terminating Impedance</u>
8 kHz to 12 kHz	- (18.4+20 log f) dBV*	500 ohms
12 kHz to 90 kHz	(3 - 40 log f) dBV	90 ohms
90 kHz to 266 kHz	- 62 dBV	90 ohms

\* dBV = 20 log<sub>10</sub> voltage in volts

- (2) The root-mean-square (RMS) value of the longitudinal voltage components in the frequency range of 270 kHz to 6 MHz shall, averaged over 2 microseconds, not exceed -30 dBV. This limitation applies with a longitudinal termination having an impedance of 90 ohms.

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