

Voltage Drop

Based on the sample figures contained in the SAA 3000 1986 Edition - Appendix G - Wiring Rules. These should only be used as guide.

The screenshot shows the 'Fast Track Estimating System' window with a 'Voltage Drop' sub-window. The interface is divided into three main sections:

- Top Section:** Contains input fields for 'Enter Voltage Max V drop %', 'Amps', 'Select Voltage' (set to 415), 'Select Cable Size', and 'Max Distance in M'. Below these is a text box explaining that this section calculates the maximum distance a cable can run before its voltage drop is exceeded, based on a 1% loss in Mains/Submains cable.
- Middle Section:** Contains input fields for 'Length in (M)', 'Amps', 'Select Voltage' (set to 415), 'Select Cable Size', 'Voltage Drop', and 'Volt Drop %'. Below this is a text box explaining that this section calculates the voltage drop of a portion of a circuit by entering current and length, then selecting voltage and cable size.
- Bottom Section:** Titled 'Transformer Calculation', it includes input fields for 'VA', 'Watts Range' (set to KVA), 'Line Volts', 'Pwr Factor', and 'Line Amps'. Below these is a formula:
$$\text{Line Amps} = \frac{\text{KVA} \times 1000}{\text{Line Volts} \times 1.732 \times \text{pf}}$$

A 'Close' button is located in the bottom right corner of the window.

Note: This is a memory function only.

Notes