HOT WIRE CUTTER
DESIGN CURVES
BY DemolisionWolf

instructables

Wire Length (inches) vs **Current (Amps)**

- 6.0v
- 5.0v
- 4.0V
- 3.0V
- 2.0v
- Voltage = 0.2V
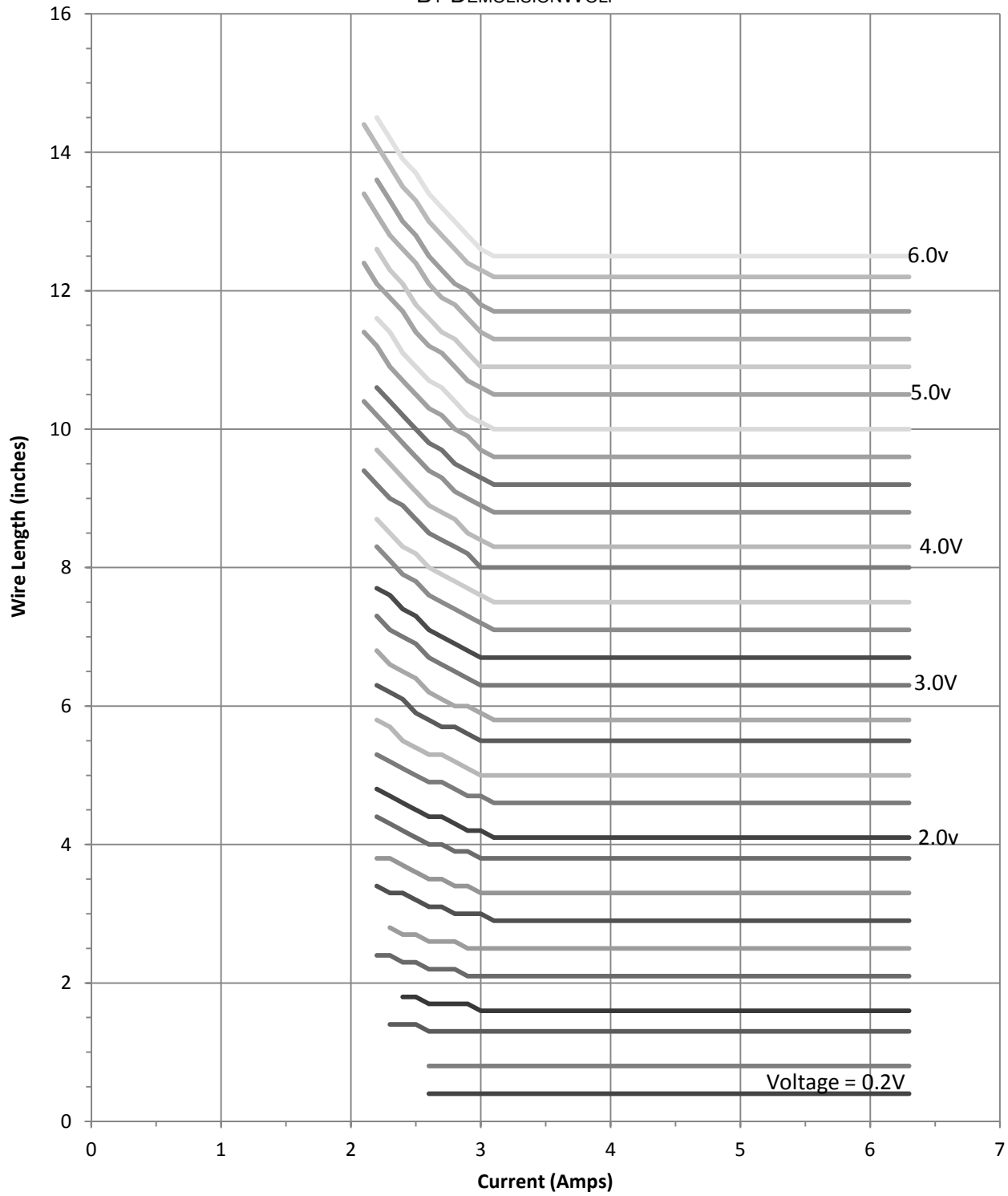
*   To increase temperature of wire during testing, decrease length by 0.5" incriments.
**   Temperatures Range of curves: 464°F (240°C) to 860°F (460°C)
***   Rounding of each variable in Trial & Error loop: Volts by 0.2, Current by 0.1, Length by 0.2
**** Equations: $W=VI$, $I=VR$, $R=(PL)/A$, $P=P(1+\alpha\Delta)$
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