



Sunrise PowerLink

UG Cable Currents

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SUNRISE PowerLink

500 KV Line ($\approx 2,000$ MVA)

$$\text{MVA} = \frac{\text{KV} \times \text{Amps} \times \sqrt{3}}{1000}$$

$$\text{Amps} = \frac{(1000)(\text{MVA})}{\text{KV} \times \sqrt{3}} = \frac{(1,000)(2000)}{(500)(\sqrt{3})}$$

$$\approx 2300 \text{ Amps.}$$

For equivalent power xfer @ 230KV

$$2,000 \text{ MVA} = \frac{(230)(\text{Amps})\sqrt{3}}{1000}$$

$$\text{Amps} \approx 5000$$

Using 2 - 230KV ckt's of
 $\approx 2,500$ Amps each.