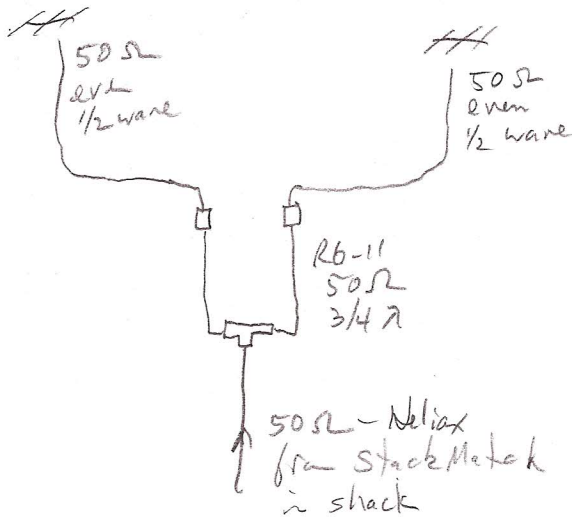


US/JA 10M Stack Matching Harness Design

$$1\lambda = \frac{300}{f} \text{ meters} \quad \therefore .75\lambda = \frac{225}{f} \text{ meters}$$

To calculate length of RG-11/u @ $V_f = 0.66$:

$$.75\lambda / f = \left(\frac{225}{f} \right) \left(\frac{3.2808 \text{ ft}}{m} \right) \cdot .66 = \frac{\text{ft}}{3/4\lambda}$$

$$\text{If } f = 28.200 \text{ MHz}, \left(\frac{225}{28.2} \right) (3.2808) (.66) = 17.276 \text{ ft}$$

$$20\% \text{ extra} = 17.276 \text{ ft} \times 1.2 = 20.73 \quad \therefore \text{Start w/ 22 ft of RG-11/u}$$

Actual length using an MFT-259B was 17.2 ft!