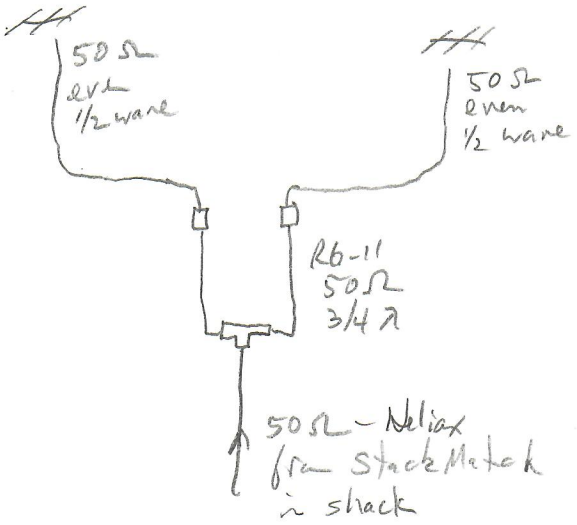
# US/JTA 10M Stack Matching Harness Design




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

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

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

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

20% extra = $17.276\ ft * 1.2 = 20.73$ $\quad \therefore$ Start w/ 22ft of RG-11/U

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