

Calculating Matching Methods

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Measure or model feed impedance at the operating frequency.

For end-fed random wire, start with 9:1 unun (3000 to 50 ohms).

For EFHW, use 49:1 or 64:1 transformer depending on impedance.

For balanced feed, use a 1:1 current balun and open-wire line.

Tune residual reactance with an antenna tuner or L-network.

Check transformer voltage/current ratings to prevent overheating.