Subject: Coax Sleeve Balun

From: G8MNY@GB7CIP.#32.GBR.EU
To: TECH@WW

By G8MNY (Updated Dec 04)

This type of balun is to be found in most textbooks & many aerial designs. It is a 1:1 balun & does not alter the impedance.

Balun is made from ¼ wave lengths of scrap coax (longer needed to cover the fatter outer) braid or pipe over the top of the feeder. It is electrically connected to the coax braid 1/4 wave from the balanced feeder connections.

```
BALANCED          \_/  UNBALANCED FEEDER
       \   /                B
       \_/                  B

This works by hiding the unbalanced outer aerial connections from the outside world so it can't radiate.

In practice I recommend heatshrink sleeving & heat glue it used to seal the add outer section.

Common mode Z is only high at the resonant frequency, where it eliminates any outer feeder current on the unbalanced coax.

```

Why don't U send an interesting bul?

73 De John, G8MNY @ GB7CIP
/EX