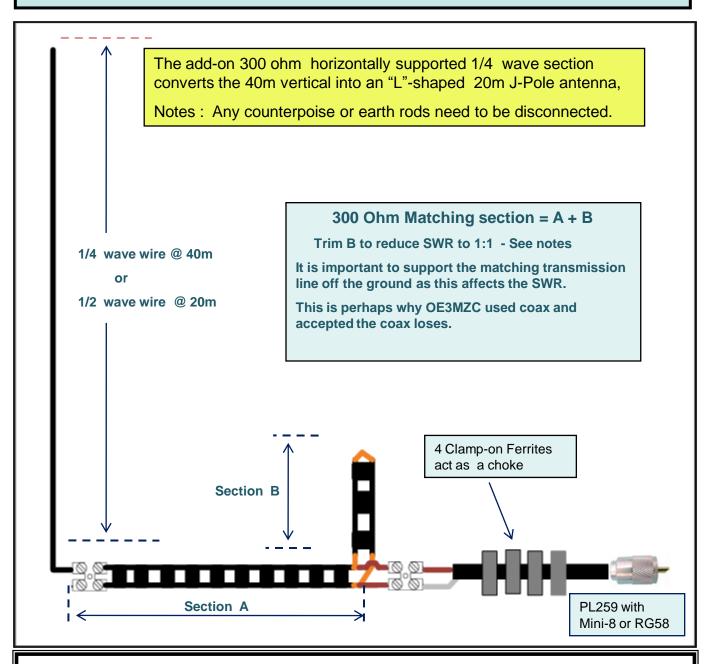
20m half-wave end fed (SWR < 1.3:1)





The IDEA for this came from OE3MZC's 20 Metre ½ wave end fed who used 50 ohm coax for his ¼ wave matching section, but this has greater dielectric loses, hence this design used twin line with lower loses.

Theory :- For a 1/4 wave end fed antenna Zo approx 50ohms, but end fed 1/2 half wave antenna Zo> 2000 .The tapped 1/4 wave section acts as a matching transformer, and is made up of sections A+B

Section A = 3.54m & Section B = 0.75m but is cut to 1m initially.

Reduce SWR below 1.3:1 by trimming the shorted section 2.5 cm at a time.

G8ODE RSARS 1691