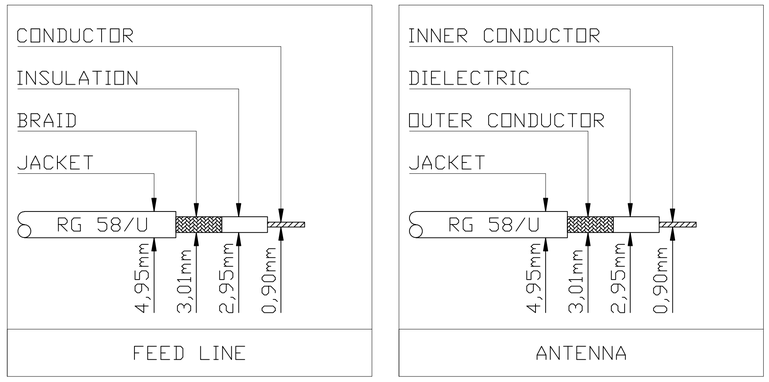

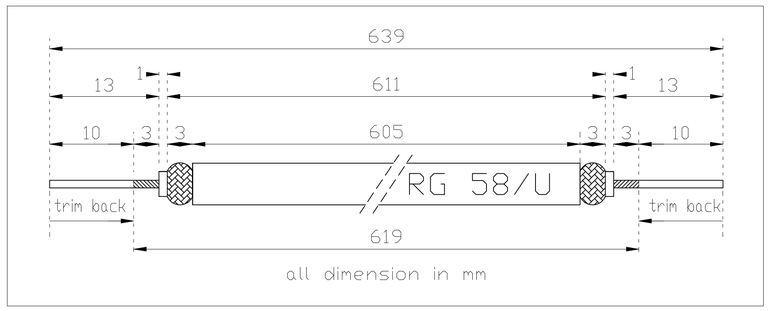

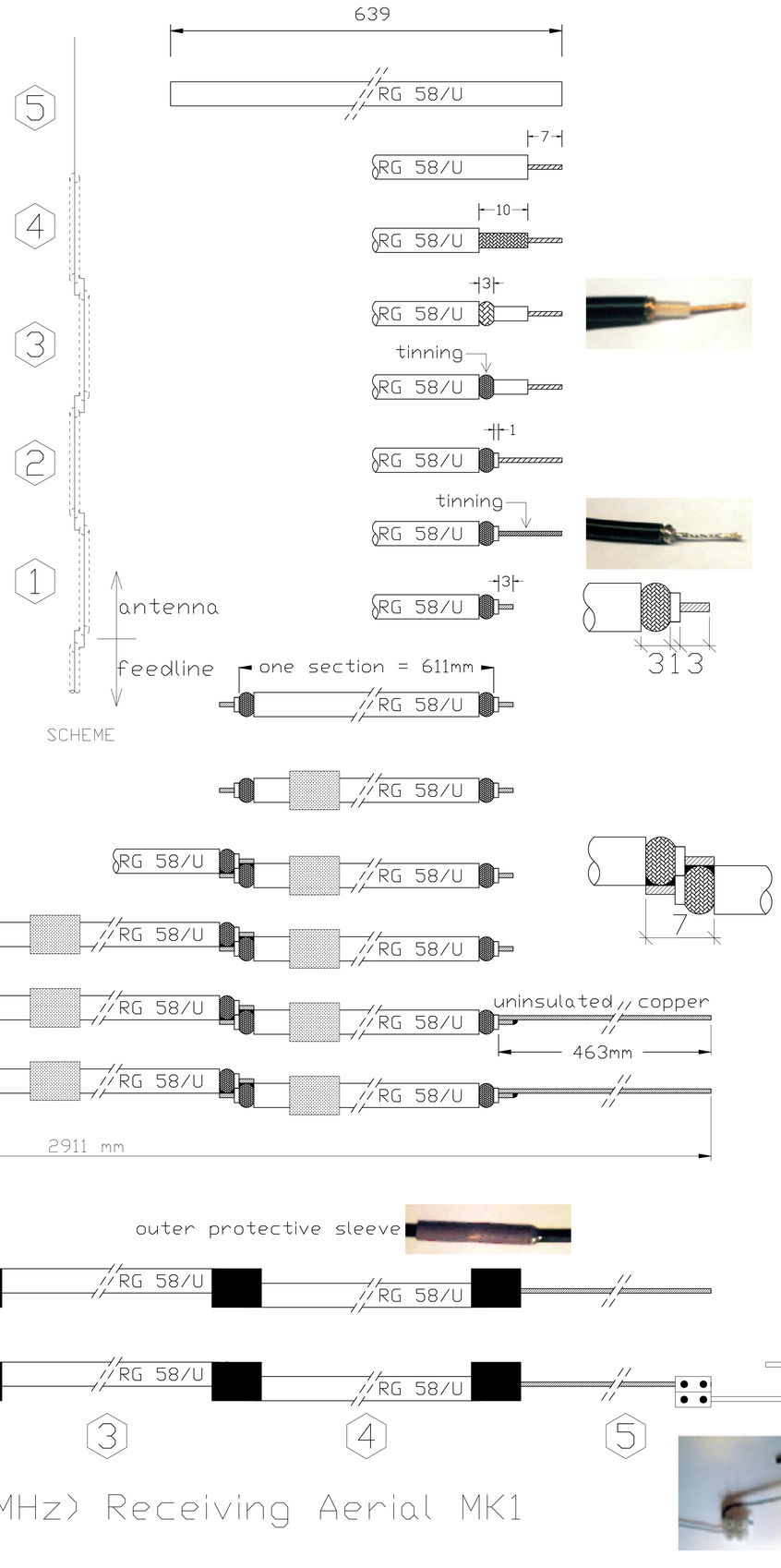

1. Cut 4 lengths of RG58 coax 639 mm long
2. strip 7mm down to inner connector
3. strip further 10 mm off jacket
4. Gradually twist the screen back to cover, leaving 3 mm of screen exposed
5. tinning the 3 mm with solder
6. cut dielectric back to leave 1 mm exposed
7. tinning the inner conductor with solder
8. trim back inner conductor to 3 mm
9. repeat 2 to 8 at the other side Most importantly the total length of the outher conductor should be 611mm this is the "active" length of each section of the antenna.
10. slide outer sleeve (which will protect joints) over each length of coax before soldering joint (step 11)
11. Solder both centre conductors to both other screens
12. Connect all 4 sections of coax in the same manner
13. Solder a 463 mm length of plain uninsulated copper wire to the top end centre conductor
14. Attach the feed wire in the same manner as point 10 the total length must be 2911 mm
15. Check the continuity from top wire rod to centre of the antenna feedwire also checking there is no short across the feedline
16. Hang the coax up and seal the joint and sleeves onto the RG58 coax cover with araldite at each end of the sleeves allow araldite to harden
17. Insulate the end of the top wire from gutter, used a "chock block" connector and hooked it onto the gutter using a wire coat hange

High Gain Collinear AIS (162MHz) Receiving Aerial MK1

by Neal Arundale - M1CHS

drawn by Broos Docter
dd 05 03 2013