

Broad-Band RF Choke (Material kit)

Bill of material

- 45cm [PA00031] Coaxcabel RG-142
- 45cm [UL0013] Heat-shrink tubing 9/3mm
- 2x [UL0015] PL-Plug
- 1x [ZUB001] PL 258 NP UHF-adaptor (double-female)
- 12x [MWS01] Ferrite beads CST9.5/5.1/15-3S4
- 6x [MWS02] Ferrite beads LFB095051-000

Building instruction

1. Cut off 25mm of the outer jacket on both sides
CAUTION! RG-142 is double shielded.
Remove **ONLY** the top shield.



Note: If you cut through both shields accidentally, cut this piece off completely and start over.
The coax cable is still long enough for a 2nd try.



2. Unbraid the remaining shield with a pointed tool, shorten it to 10mm and bend it backwards.
3. Remove 20mm of the inner insulation.



4. Screw/push the PL connector onto the coaxial cable until the inner conductor is visible.
5. Thread all 18 ferrites onto the coaxial cable. This results in a length of approx. 29cm.



6. Cut a piece of 35cm heat shrink tubing 9/3mm. Place the ferrites in the center of the cable, leaving approx. 8cm on both sides. Pull the heat shrink tubing over the ferrites. This results in an overlap of approx. 3cm on both sides.

7. Check the dimensions again and start shrinking from one side with the heat-gun. Press the ferrites on the other side so that they do not move apart and shrink the entire tubing.



8. Cut off two pieces of heat shrink tubing each approx. 5cm long.
9. **CAUTION!** Before mounting the second PL connector, be sure to slide both pieces of heat shrink tubing and both connectors threaded-shell over the cable in the right direction.



10. Now mount the second PL connector. (see positions 1. to 4.)



11. Slide the heat shrink tubing onto the thin end of the PL connector on both sides and shrink it in place with the heat-gun.



12. Solder the inner conductor of the coaxial cable on both sides in the PL connector.

13. Screw on the double-female UHF-adaptor.

14. Check the Broad-Band RF Choke for continuity of the inner conductor and assure there is no short-circuit across the connectors.

