BNC to Test Lead

This test cable is intended for waveform analysis from a BNC video output using a FLUKE portable oscilloscope. While the test leads also can do this job this cable frees up a hand.

Wiring pinout

BNC center – red lead

BNC shield – Black lead

Parts needed

* 1 set fluke test leads cut in half
* 1 coax cable -2 ft
* 1 female coax connector
* 2 Splice crimp <https://www.digikey.com/en/products/detail/te-connectivity-amp-connectors/41974/4895060> - this may be the right one, but I improvised my first cable
* ¼ shrink wrap 8 inches
* 5/8 shrink wrap 6 inches

Assembly

1. Cut the coax cable outer insulation back 25mm, then I cut the outer conductor and the nylon center insulator back 12mm.
2. Fan out and bundle the outer conductor and twist into one wire like conductor
3. Slide 2 2inch sections of shrink wrap over the red test lead
4. Strip the red test lead 5/8 inch
5. Crimp the red test lead to the coax center conductor
6. Apply shrink wrap
7. Slide 2 2inch sections of shrink wrap over the black test lead
8. Strip the black test lead 5/8 inch
9. Crimp the black test lead to the bundled outer test lead
10. Apply shrink wrap
11. Apply outer shrink wrap
12. Test cable

Picture of prototype

