Yagi Antenna

# Components Required 11/17/15 SRT-3

In order for the Baofeng UV-5R to work with either an aftermarket Yagi antenna or a self-built Yagi the Baofeng would require just some simple adaptors and the necessary coax cable.

The appropriate adapter for the SMA antenna input on the handheld would be this one.

**PL-259 UHF-Male to SMA-Female Coaxial Adapter RFA-8183** Cost: 4.59 plus shipping

<http://testparts-store.com/pl-259-uhf-male-to-sma-female-coaxial-adapter-rfa-8183/>

To this adapter we would connect the coax that leads to the antenna before that however, we need the appropriate plug that solders into the bare coax cable.

**PL-259 Plug** Cost: 1.65 plus shipping

<http://www.allelectronics.com/make-a-store/item/pl-259/pl-259-plug/1.html?gclid=CJXizKf5mMkCFQUHaQodsVoCNQ>

The next component would be the coax cable that needs to have an impedance of 50 Ohms in order to not surpass a 1.5:1 SWR. This coax is just a basic coax some fancier cable could be bought if desired.

**Low Loss Flexible LMR-195-FR Fire Rated Coax Cable Double Shielded** Cost 0.89 per feet + shipping

<http://www.pasternack.com/50-ohm-flexible-lmr-195-fr-frpe-jacket-aluminum-tape-over-tinned-copper-braid-outer-conductor-double-shielded-black-lmr-195-fr-p.aspx?gclid=CPzbk6S1lskCFQ6OaQod8ioG7A>

Also a useful website that illustrates the setup is here

<http://baofeng-uv-5re.blogspot.com/2013/10/so-how-far-can-i-talk-on-my-baofeng-uv.html>

One last thing is that SMA connectors such as the ones linked above must be treated carefully because a jolt or hit could damage the SMA input on the Baofeng uv-5R.