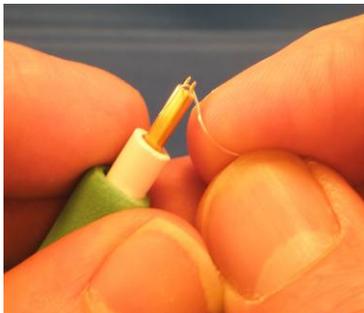


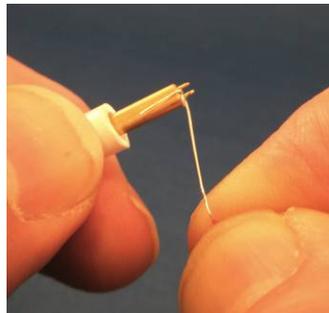
Converting the GigaProbes™ To 50 Ohm Single Ended TDR Configuration

The GigaProbes™ can be configured to operate as a single ended or differential TDR probe. To make it a single ended probe, one of the probe tips is attached to the probe shield and a SMA shorting cap is attached to the shorted probe tip path. The short cap and grounded tip can be removed to make it a differential probe. The single ended probe configuration bandwidth performance is 30 GHz or better.

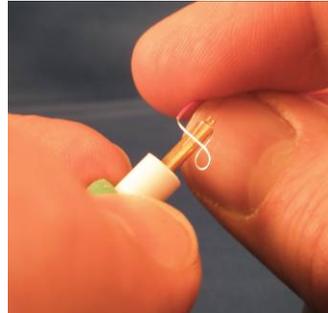
To convert the GigaProbes™ to a 50 ohm probe you must wire wrap one of the probe tips to the copper shield and put a ground cap on the connector end of that same signal probe line. A 50 ohm conversion kit is included that allows you to convert two probes to 50 ohms. To secure the connection on the probe, uses a piece of shrink tubing (included).



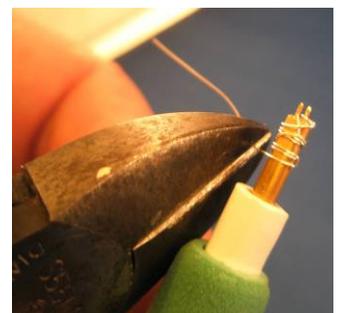
Push wire through probes with enough wire length to flatten against probe body



Wrap the wire once around the probe



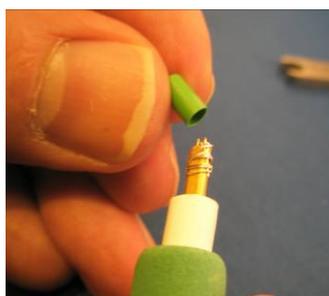
Wrap the wire around the flattened wire



Continue wrapping the remaining wire around the probe 4-5 times then cut the remaining wire



Push the probe tips into the 1mm holes in the GigaProbes™ patented pitch setting wrench. This will push the wire down flat against the probe body.



Take a shrink wrap tube and push it over the probe tip leaving enough room to expose the probe tips.



Use a heat gun to quickly shrink the tube tightly around the probe tip. **DO NOT OVER HEAT OR RISK DAMAGING PROBE**



This is how it should look. Make sure the wires do not short the probe tips together.

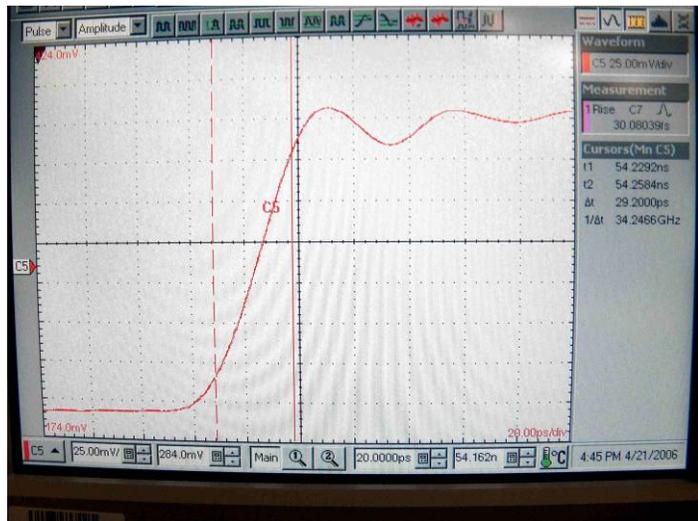
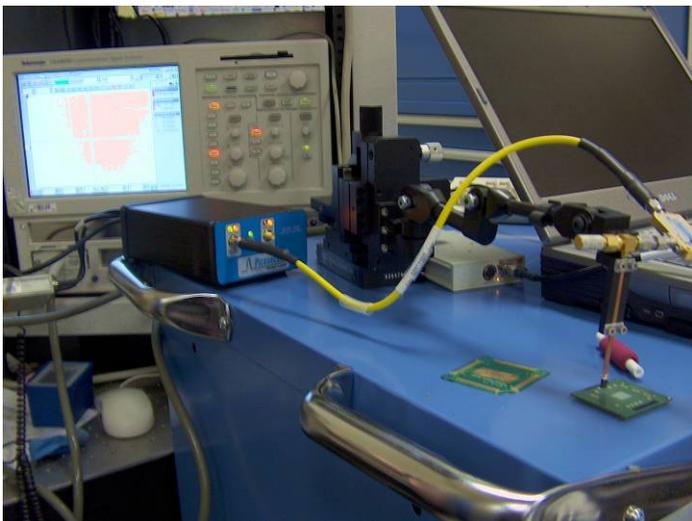
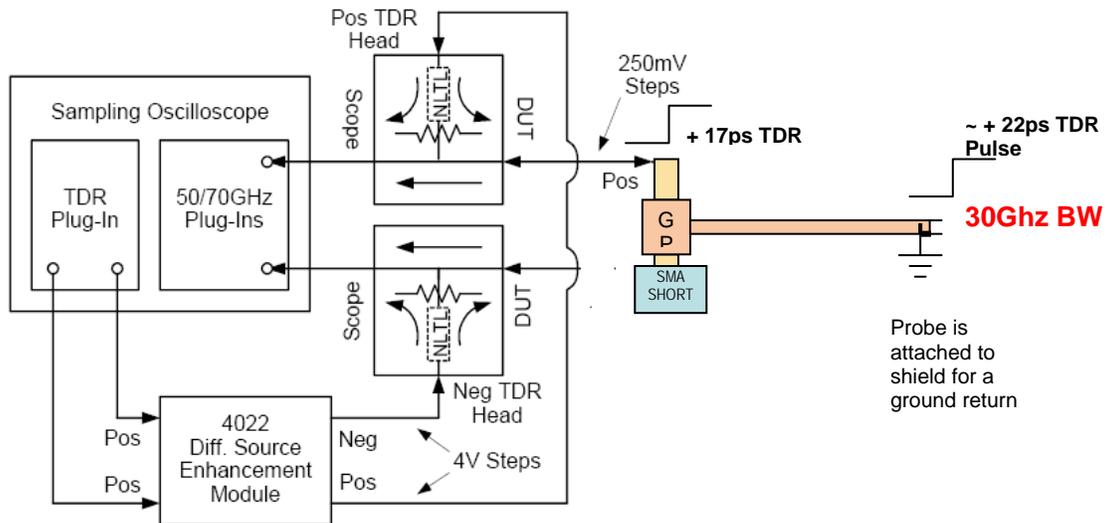


Attach a SMA SHORT CAP to the same probe shorted to the probe body. Hook up your SMA Cable for a 50 Ohm TDR measurement

Follow web link for step by step video demonstration on converting your GigaProbes™ to 50 ohms

<http://www.gigaprobes.com/home/videos.html>

Converting The GigaProbes™ from a Differential to a 50 Ohm Single Ended 30GHz TDR Probe



The picture on the left and the circuit diagrams shows the GigaProbes™ operating in a single ended configuration. The Gigaprobes are calibrated using a 4022 TDRT 9ps pulser to drive the probe and the reflective output is displayed on the right with a better than 30 GHz bandwidth.