

HYBRID WIREBONDING

(One technician)

Preparation (1min):

- Get hybrid from cabinet
- Take hybrid out of box
- Mount hybrid on wire bonding fixture
- Scan barcode and start database
- Drive fixture in

Bonding (7min 10sec):

- Do 5 bonds on P.A. test structures (*45sec*)
- Do bias bonds (*1min*)
- Check number of bonds made thus far and enter into database (*15sec*)
- Start bonding program and bond all signal wires (*3-4 min, depending if and how fast eye points are found*)
- Check that all bonds are there, if not, re-do missing bonds (*1min*)
- Remove hybrid from wire bonding fixture (*10sec*)

Post-bonding tasks (4min 35sec):

- Put hybrid under stereoscope and check bonds (*30sec*)
- Put hybrid on pull tester and pull test P.A. test structure bonds (*1min 45sec*)
- Put hybrid back into box and return to cabinet (*20sec*)
- Enter pull test results and all other information into database (*2min*)

Total time: 12min 45sec

HYBRID WIREBONDING

(with 2 technicians)

First Technician:

Preparation (20sec):

- Get hybrid from cabinet
- Take hybrid out of box and give to second technician

Second Technician:

Preparation (25sec):

- Mount hybrid on wire bonding fixture
- Drive fixture in

Bonding (7min 20sec):

- Do 5 bonds on P.A. test structures (*45sec*)
- Do bias bonds (*1min*)
- Check number of bonds made thus far and write it down (*15sec*)
- Start bonding program and bond all signal wires (*3-4 min, depending if and how fast eye points are found*)
- Check that all bonds are there, if not, re-do missing bonds (*1min*)
- Remove hybrid from wire bonding fixture (*10sec*)
- Give hybrid back to first technician (*10 sec*)

First Technician:

Post-bonding tasks (5min 20sec):

- Get hybrid from first technician (*10sec*)
- Take hybrid out of box (*5sec*)
- Put hybrid under stereoscope and check bonds (*30sec*)
- Put hybrid on pull tester and pull test P.A. test structure bonds (*1min 45sec*)
- Open database and scan barcode (*30sec*)
- Enter pull test results and all other information into database (*2min*)
- Put hybrid back into box and return to cabinet (*20sec*)

Total time: 7min 45sec