

Dyconex analog cables

- received and shipped to FNAL:
 - 13x A-type cables
 - 14x B-type cables
 - all w/o solder resist, traces Ni/Au electro plated
 - HV and GND traces are coated
 - laser drilled holes of 1.5mm diameter on cable ears
- visual inspection of pad regions on cables:
 - 16 x perfect
 - 9x one trace not gold plated => open trace
 - 2x ? (surface finish not good enough to tell if gold plating has worked or not)
- N.B. there could be still more opens on cable, which are not visible by inspecting pad regions

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- Metrology measurement on OGP (all in mm):
 - Gordie measured two cables: type A+B
 - laser drilled holes: $d=1.495\pm 0.005$ - OK
 - hole-hole distance: 27.246 ± 0.006 - OK
 - pad sizes: $\sim 0.125 - 0.135 \times 0.038 - 0.045$
 - distance trimming line to beginning of pads:
 - ✓ Left: 0.473 ± 0.003
 - ✓ Right: 0.411 ± 0.006
 - edge trimming accuracy: 3 edges parallel within ± 0.005 , one edge was within ± 0.01
 - trace width: 0.008 - 0.010 depending on OGP pattern recognition tool. Variation (for same tool) is 0.001. Same variation for trace-to-trace differences.
 - got the same widths on last cable batch in March...