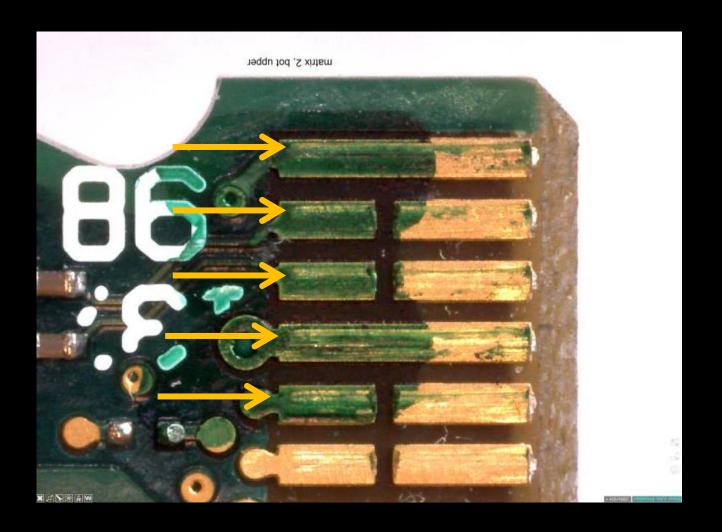
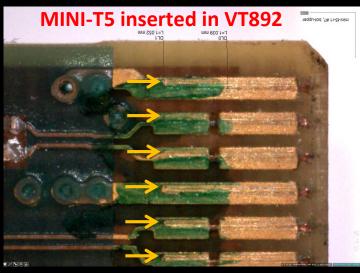
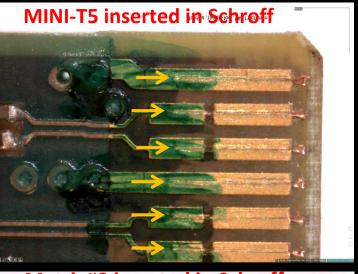


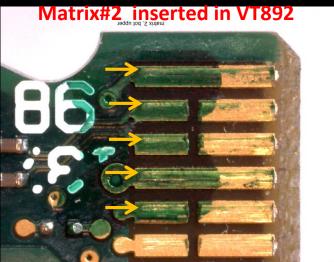
Scratch mark misaligned



Plug or Socket Problem?

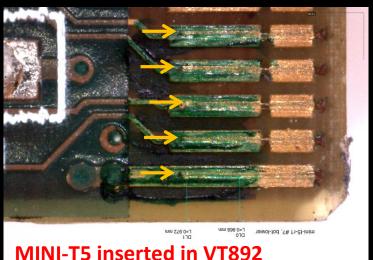




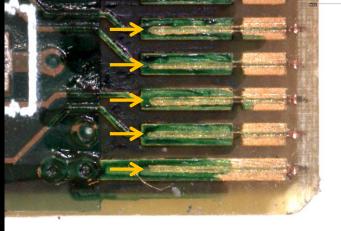




Other end of connector OK



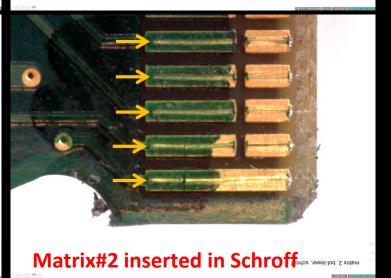




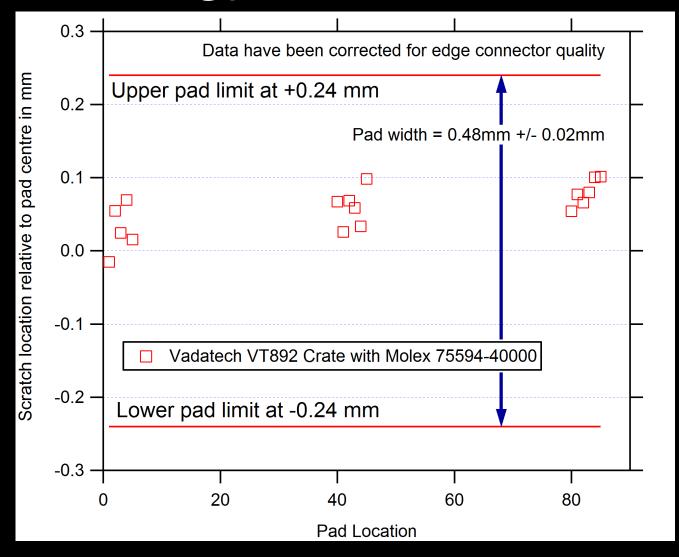
MINI-T5 inserted in Schroff

Toldand Table 1. Schroff

Toldand Table 1



Metrology measurements

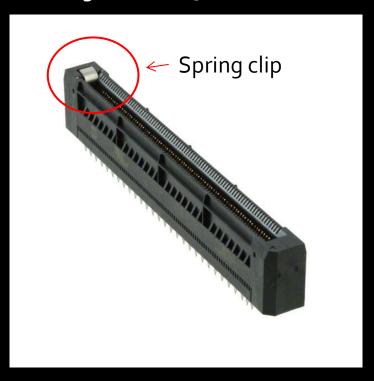


Scratch location relative to pad centre

Includes corrections applied for PCB scaling & offset

Investigate other connectors....

Harting 16 11 170 5202 000

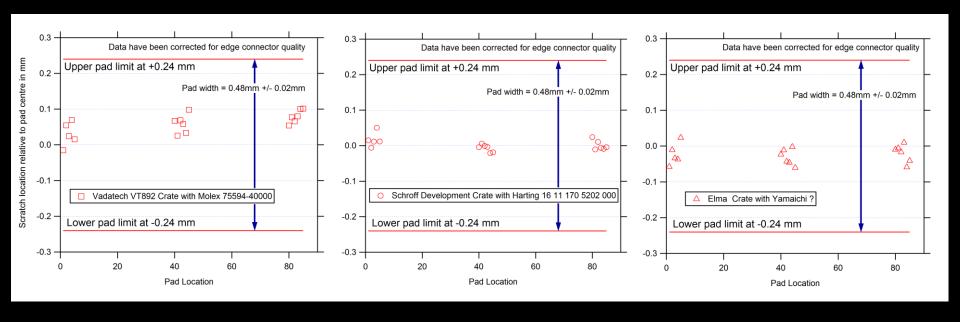


Yamaichi CNo8o *



* Not yet confirmed whether Elma use this exact part

More Metrology measurements



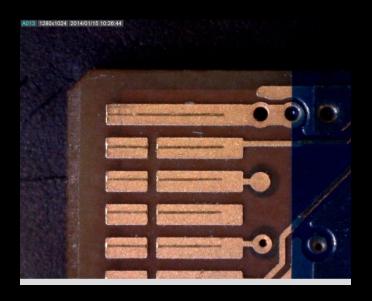
Vadatech / Molex

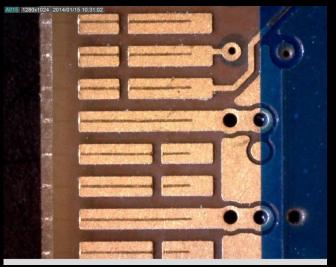
Schroff / Harting

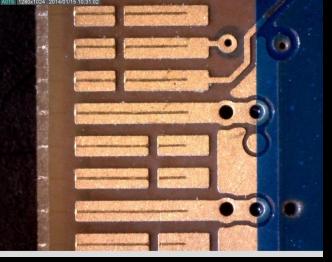
Elma / Yamaichi

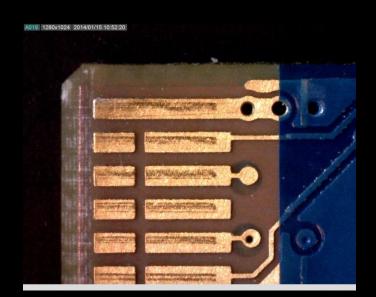
*** Note this is a very limited study. Would be good to have cross-check by another group ***

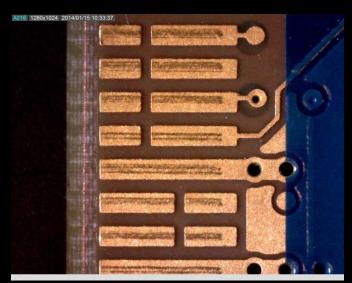
Card inserted 5 times into the same slot





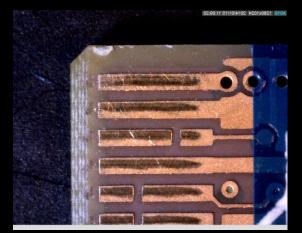


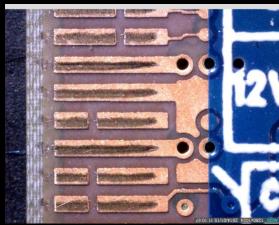




Schroff / Harting

Elma / Yamaichi







Schroff / Harting Crate

Some connector manufacturers query robustness of card edge with repeated insertions.

Spec > 200 insertions

Card inserted 240 times: 20 times into 12 slots

Visibly pads seem fine (i.e. gold intact).

Note that while the scratch mark is quite broad the final resting point seems better defined.

Certainly possible to do a much more comprehensive measurement, but I stopped at this stage.

Conclusions

Vadatech is discontinuing Molex connector use

- New backplanes will use Yamaichi and will be designed for 10G

Large number of claims / counter claims by different manufacturers

- e.g. signal quality, potential for pad damage, alignment, etc

Recommend that community as whole invests some time to evaluating AMC sockets more thoroughly

End

Card edge location

