

Tuesday 23<sup>rd</sup> November, 2021

Dear Customer,

**Re: Plating thickness for Datamate (M80 and M83) signal contacts.**

I can hereby confirm the plating thicknesses for the Datamate L-Tek, J-Tek (including 3-Row) and Mix-Tek product ranges are as follows:

**Male signal barrel crimp pins – all gold:**

- 0.25-0.30µm (10-12µ") Gold, over 1.00-2.00µm (40-80µ") Nickel, over 1.00-3.00µm (40-120µ") Copper.

**Male signal PCT/SMT pins – all gold:**

- 0.75-0.90 µm (30-36µ") Gold over 1.27-2.00µm (50-80µ") Nickel.

**Male signal PCT/SMT pins – selective gold (RoHS):**

- 0.75-0.90 µm (30-36µ") Gold on contact area, 3.00-5.00µm (120-200µ") 100% Tin on tails, all over 1.27-2.00µm (50-80µ") Nickel.

**Male signal PCT/SMT pins – selective gold (Non-RoHS):**

- 0.75-0.90 µm (30-36µ") Gold on contact area, 3.00-5.00µm (120-200µ") 90/10 Tin/Lead on tails, all over 1.27-2.00µm (50-80µ") Nickel.

**Female signal barrel crimp & PCT/SMT contacts – all gold:**

- Contact clip plating = 0.30µm (12µ") min. Gold over 1.00µm (40µ") min. Nickel.
- Contact shell (tail/crimp) plating = 0.25-0.30µm (10-12µ") Gold, over 1.00-2.00µm (40-80µ") Nickel, over 1.00-3.00µm (40-120µ") Copper.

**Female signal barrel crimp & PCT/SMT contacts – selective gold (RoHS):**

- Contact clip plating = 0.30µm (12µ") min. Gold over 1.00µm (40µ") min. Nickel.
- Contact shell (tail/crimp) plating = 3.50-5.00µm (140-200µ") 100% Tin, over 1.00-2.00µm (40-80µ") Nickel, over 0.80-1.20µm (30-50µ") Copper.

**Female signal barrel crimp & PCT/SMT contacts – selective gold (Non-RoHS):**

- Contact clip plating = 0.30µm (12µ") min. Gold over 1.00µm (40µ") min. Nickel.
- Contact shell (tail/crimp) plating = 3.50-5.00µm (140-200µ") 90/10 Tin/Lead, over 1.00-2.00µm (40-80µ") Nickel, over 0.80-1.20µm (30-50µ") Copper.

**Female T-Contact barrel crimp contacts – all gold:**

- 0.76-1.00µm (30-40µ") Gold, over 1.50-2.50µm (60-100µ") Nickel, over Copper flash.

**Female Trio-Tek open crimp contacts – all gold:**

- 0.30-0.45µm (12-18µ") Gold over 1.00-2.00µm (40-80µ") Nickel.

**Female Trio-Tek open crimp contacts – selective gold (RoHS):**

- 0.30-0.45µm (12-18µ") Gold on contact area, 3.00-4.00µm (120-160µ") 100% Tin on crimp area, all over 2.00-3.00µm (80-120µ") Nickel.



Please note, 100% tin plating is subject to lead impurity, not exceeding 1,000ppm of the plating composition.

If you have any further questions regarding this letter, please do not hesitate to contact our Technical Experts at <https://www.harwin.com/contact/ask-an-expert/>.

Yours faithfully,

A handwritten signature in black ink that reads "Wendy Preston".

Mrs Wendy Jane Preston, BEng (Hons)  
Senior Technical Author