

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

Dear Customer,

## Re: Plating thickness for M80-3xx, M80-Pxx and M83-3xx special contacts.

I can hereby confirm the plating thicknesses for the special contacts used in the Datamate Mix-Tek, Coax and Power product ranges are as follows:

### M80-301, M80-302:

- Outer shell = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over Copper flash.
- Inner contact = 1.3-1.5µm (52-60µ") Gold over 1.8-2.8µm (70-110µ") Nickel, over Copper flash.

### M80-305, M80-307, M80-308, M80-309, M80-310:

- Outer shell and sleeve (when applicable) = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over 1-3µm (40-120µ") Copper.
- Inner contact = 1.3-1.5µm (52-60µ") Gold over 1.8-2.8µm (70-110µ") Nickel, over Copper flash.
- End plug (when applicable) = 1.3-1.5µm (52-60µ") Gold over 1.8-2.8µm (70-110µ") Nickel.
- Retaining clip = 0.5-2µm (20-80µ") Nickel.

### M80-311, M80-312:

- Outer shell = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over Copper flash.
- Inner contact = 1.3-1.5µm (52-60µ") Gold over 1.8-2.8µm (70-110µ") Nickel, over Copper flash.

### M80-313, M80-314:

- Outer shell = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over Copper flash.
- Outer tails = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over 1-3µm (40-120µ") Copper, over Copper flash.
- End plug = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over 1-3µm (40-120µ") Copper.
- Inner contact = 1.3-1.5µm (52-60µ") Gold over 1.8-2.8µm (70-110µ") Nickel, over Copper flash.

### M80-315, M80-317, M80-318, M80-319:

- Outer shell = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over Copper flash.
- Sleeve = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over 1-3µm (40-120µ") Copper.
- Inner contact and end plug (where applicable) = 1.3-1.5µm (52-60µ") Gold over 1.8-2.8µm (70-110µ") Nickel.
- Retaining clip = 0.5-2µm (20-80µ") Nickel.

### M80-321, M80-322, M80-331, M80-332, M80-333, M80-334, M80-33A:

- Contact = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over Copper flash.

### M80-325, M80-326, M80-327, M80-328, M80-329, M80-32A, M80-32B, M80-32C, M80-335, M80-336, M80-337, M80-338, M80-339:

- Contact = 0.25-0.30µm (10-12µ") Gold, over 1-2µm (40-80µ") Nickel, over 1-3µm (40-120µ") Copper.
- Retaining clip = 0.5-2µm (20-80µ") Nickel.



**M80-PF1, M80-PF2, M80-PF3, M80-PF4, M80-PM1, M80-PM2, M80-PM3, M80-PM4:**

- Contact = 0.76-1 $\mu$ m (30-40 $\mu$ "") Gold, over 1-2 $\mu$ m (40-80 $\mu$ "") Nickel, over Copper flash.

**M80-PF5, M80-PM5:**

- Contact = 0.76-1 $\mu$ m (30-40 $\mu$ "") Gold, over 1-2 $\mu$ m (40-80 $\mu$ "") Nickel, over Copper flash.
- Retaining clip = 0.5-2 $\mu$ m (20-80 $\mu$ "") Nickel.

**M83-322:**

- Contact = 0.25-0.30 $\mu$ m (10-12 $\mu$ "") Gold, over 1-2 $\mu$ m (40-80 $\mu$ "") Nickel, over 1-3 $\mu$ m (40-120 $\mu$ "") Copper.

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, appearing to read "Wendy Preston".

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