



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

Magnet Wire

What is it?
Is it Solderable?



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

What is Magnet Wire

- It is round insulated
Copper or Aluminum wire in
the diameter wire range size
typically .47mm to 3.20mm.
- It is also called Winding wire.

http://www.professionalplastics.com/Magnet_Wire?&search_id=1686736



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



Type of Magnet Wire

There are many types and this information can be found on the Professional Plastic web site, but to name a few, they are:

- PIW – Polyimide – thermal Class 220C
- PEWN – Polyester Nylon – thermal class 155C
- HPEWN – Polyester Nylon – thermal class 180C
- FORMVAR – Polyvinyl Formal – thermal class 105C
- UEWN – Polyurethane Nylon – thermal Class 130/155C



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

Type of Magnet Wire

- HPEAIW – Polyester Polyamide-imide – thermal class 200C
- AIW – Polyamide-imide – thermal class 220C
- EIAIW - Polyester-imide Polyamide-imide – thermal class 200C



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

Stripping Magnet Wire

- If the wire is big enough, scraping with an Xacto blade works very well, but be careful not to scrape or nick the wire
- An alternative is to stick the wire end into a small flame and burn the enamel off.
- Soldering iron or solder pot



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

Auto Stripping



<http://www.eraser.com/products/wire-cable-strippers-product/wheel-strippers/rt2s-magnet-wire-stripper/>



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

1. The USP1 stripping pot is designed specifically for use with ultrafine wire.
2. The USP1 has an advanced feedback temperature controller.
3. Ultrafine Stripper is used to chemically remove the insulation from virtually all magnet and enamel wires from 40-48AWG(.046-.030mmø) without damage to the wire.
4. When heated in the specially designed stripping pot, wires are immersed to strip the insulation.
5. The stripped wires are then rinsed in water and Dip Clean Metal Cleaner to remove oxides and salt residue.
6. Ultrafine Stripper does not corrode conductors as will acid strippers.
7. Custom square and rectangular pots available –





ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

One US pint of Ultrafine Stripper is used in the USP1 Stripping Pot to chemically remove the insulation from virtually any magnet wire from 40 to 48 AWG (.046 to .030mm \varnothing), without damage to the conductors.

Note: Contact Eraser's Customer Service Department for shipping information. –

See more at:

<http://www.eraser.com/products/replacement-parts-product/ultrafine-stripper/#sthash.mxjUeKU5.dpuf>

<http://www.eraser.com/products/wire-cable-strippers-product/chemical-wire-stripping/usp1-ultra-fine-magnet-wire-stripping-pot/#sthash.wvCttSdi.dpuf>



ABOUT THE PRESENTER

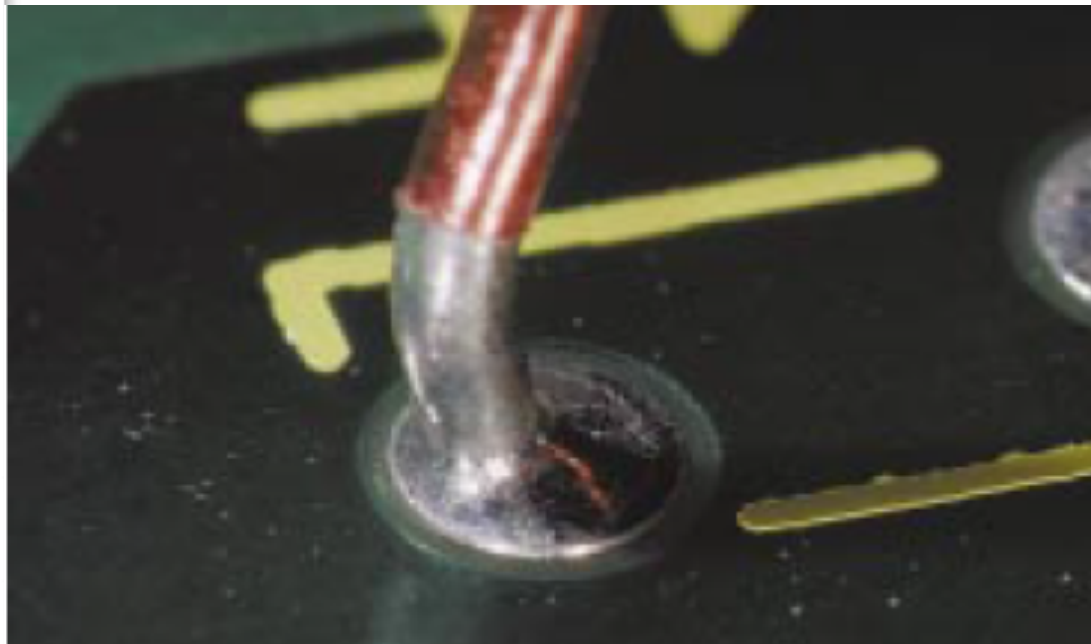
Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

Acceptance Criteria

Target condition for all classes of products.



Adapted from IPC-A-610 Rev E - Coated wire Insulation in Solder



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



Acceptance Criteria

Acceptable Class 1, 2, 3



Adapted from IPC-A-610 Rev E - Coated wire Insulation in Solder



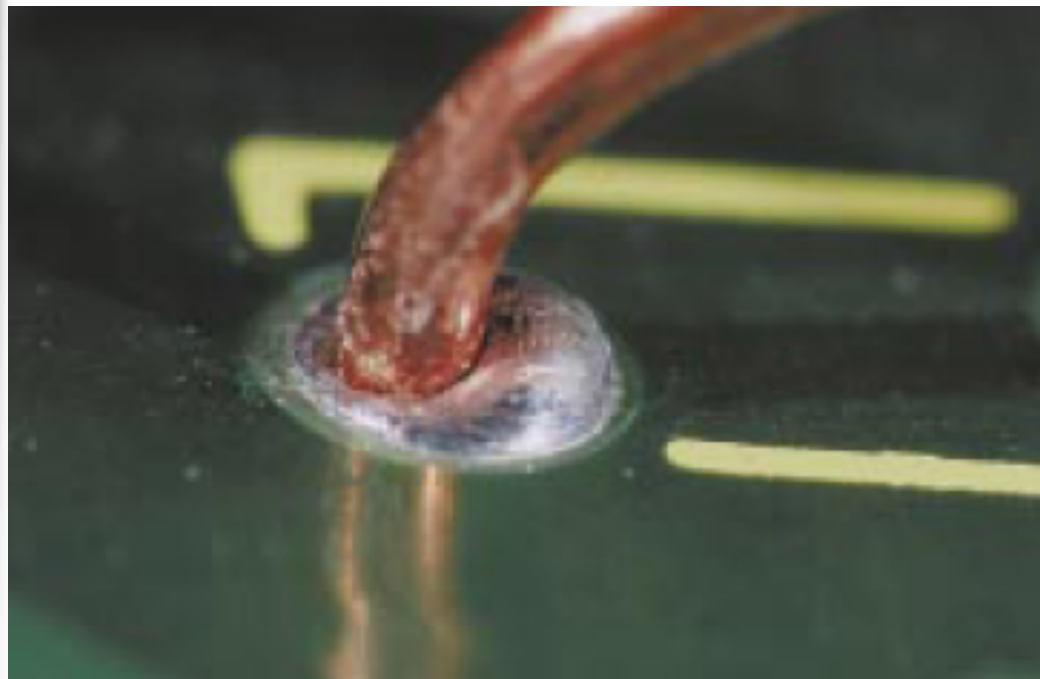
ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



Acceptance Criteria

Rejectable condition all three classes of products.



Adapted from IPC-A-610 Rev E - Coated wire Insulation in Solder



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

Additional Information

- http://www.molex.com/pdm_docs/ps/PS-19902-001.pdf
- <http://www.professionalplastics.com/professionalplastics/TypesofMagnetWire.pdf>
- <http://www.nema.org/Products/Pages/Magnet-Wire.aspx>
- http://www.coilwindingmachines.eu/production_aids/s01_brush_style_wire_stripper.html



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



eptac
webinar series

Thank You
Any Questions?



ABOUT THE PRESENTER

Leo Lambert
Vice President & Technical
Director, EPTAC



Further Information

For questions regarding this webinar, please contact
Leo Lambert at leo@eptac.com or call at
800-643-7822 ext 215

For information on any of EPTAC's or IPC's
Certification Courses, please visit our website at
<http://www.eptac.com>

For ease of getting the EPTAC website,
We now have an APP
get our APP at
www.Eptacapp.com