

Seamless Wrap PTFE tape: Proven Technology

- Laboratory tested • Field tested • Flight tested

Through more than three years of demanding usage in aerospace and electronics industry applications, Thermax *Seamless Wrap* PTFE tape insulation has consistently delivered superior performance compared to other PTFE tape insulation methods.

In hundreds of applications utilizing MIL-DTL-22759/80-92 constructions, *Seamless Wrap* applied over the polyimide base has saved weight by replacing extruded insulation, and enhanced product performance with:

- Improved resistance to scrape abrasion;
- Improved hydrolytic resistance;
- Improved electrical arc track resistance;
- Improved layer-to-layer adhesion;
- Low outgassing characteristics

With its smooth outer surface, *Seamless Wrap* has demonstrated improved performance when pulled through airframes, around pins on layup boards, and when inserted into connectors, with no tearing or nicking. *Seamless Wrap* also provides an ideal surface for clean, crisp, consistent laser marking, and strips easily and cleanly with no unraveling.

Seamless Wrap has been independently tested and approved by NAVAIR, the U.S. Air Force, QinetiQ, DSCC, and Raytheon, among other companies and agencies.

Seamless Wrap is available in standard colors on a broad range of wire and cable products, both hookup wire and multi-conductor cables.

Contact your local Thermax sales office, or visit our website for more information on proven *Seamless Wrap* technology.

Thermax **Belden CDT**
www.thermaxcdt.com

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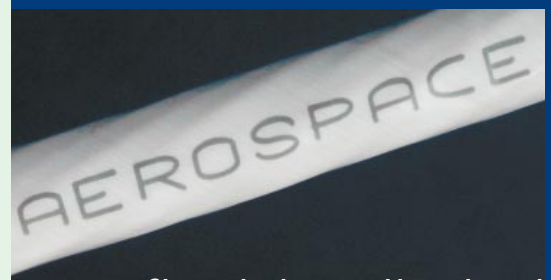
Wire with conventional PTFE tape wrap insulation can fray when stripped.



Seamless Wrap insulation cuts clean and smooth, with no unraveling.



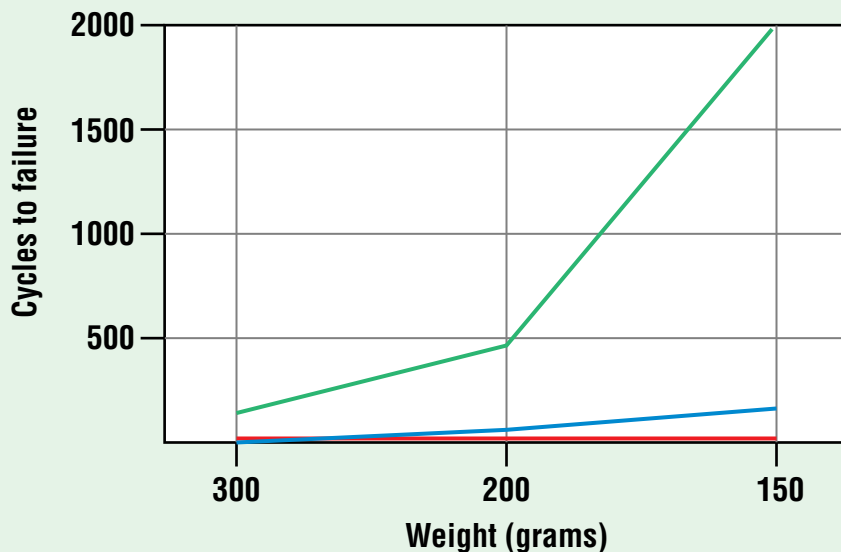
Consistent wall thickness conforms to wire geometry.



Clear, crisp laser marking enhanced by smooth outer surface.

Actual test results prove...

Seamless Wrap provides superior abrasion resistance



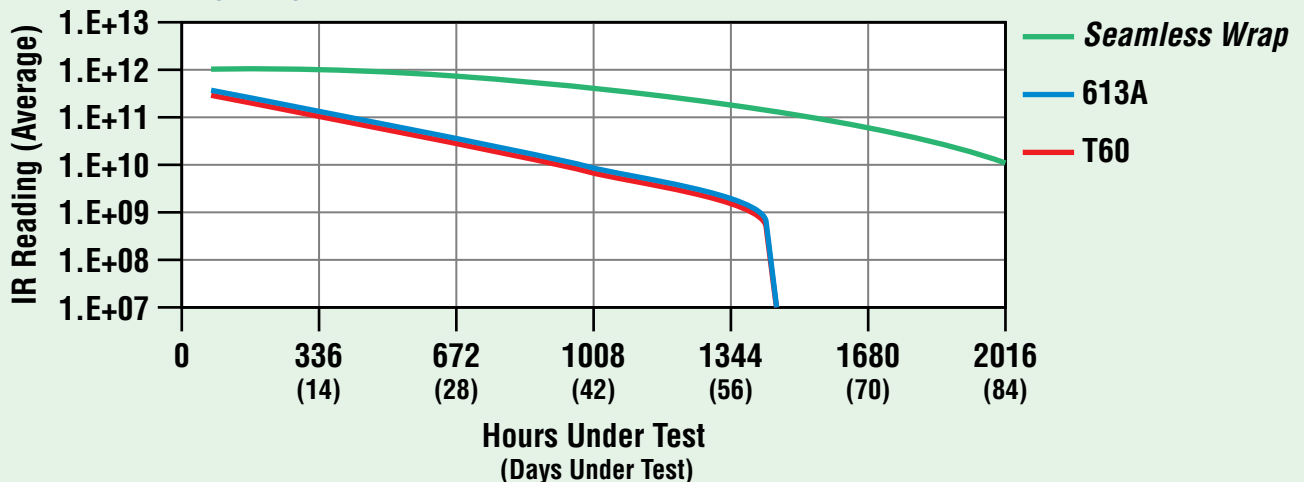
- Thermax *Seamless Wrap*
- Standard tape wrapped wire 'B'
- Standard tape wrapped wire 'A'

Standard types A and B are PTFE tapes commonly utilized in the construction of M22579/80-92 wires.

Relative tear and abrasion resistance tested using the "Oscillating Rod" method. 100 samples of each type tested; chart indicates average number of cycles to failure for each type.

Seamless Wrap provides superior hydrolytic resistance

Forced Hydrolysis / Insulation Resistance, PTFE over Oasis HN Film



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