



Research & Development

REMOVING METAL FROM SIGNAL-CARRYING CABLE

Challenge

Traditional cable that carries electrical signal has not changed its fundamental properties in generations. Emerging and disruptive technology applications need cable that is *lighter, fatigue and corrosion-resistant, and conformal* to unique designs

Medical Imaging



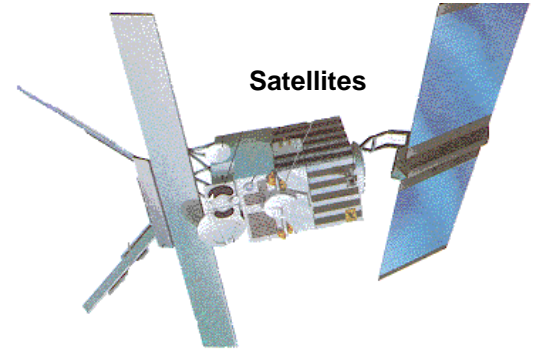
Solution

Minnesota Wire is producing non-metallic cable solutions through R&D programs that include innovative materials and designs, and nanotechnology methods.

The result will be marketable products and processes for the most demanding markets, including aerospace, medical, transportation and infrastructure. Non-metallic cable will be:

- **Up to 65% lighter**
- **Fatigue and corrosion resistant**
- **Thermally stable**
- **“Stretchy” for conformity and comfort**
- **Radio translucent**

Satellites



Aircraft



CORPORATE R&D OVERVIEW

Minnesota Wire executes high technology R&D grants to build new, sustainable value as a leader in the transformation of the wire, cable and interconnect industry. We are becoming a materials and systems developer to create products of novel properties and enhanced performance that improve the signal integrity of traditional interconnect infrastructure. Minnesota Wire's embrace of R&D as part of its strategic portfolio is evidenced in various ways, including a 51% capture rate of Small Business Innovation Research (SBIR) grants (compared to a 10% national average), and receipt of the prestigious Tibbetts Award for SBIR R&D Grant excellence in 2007