

AmberStrand®

"The Weight Saver" Composite EMI/RFI Braided Shielding



**Conductively Plated
Composite Material
Delivers EMC Shielding
from 40db to 80db in
Frequency Ranges from
100Khz to 1Ghz**



AmberStrand® is an expandable, flexible, high-strength, conductive composite thermoplastic material designed for use as EMI/RFI shielding in high-performance interconnect cabling. The principal benefit of **AmberStrand®** is its extreme lightweight compared to conventional Tin/Copper shielding. By way of comparison, 100 feet of 5/8 inch AmberStrand® is more than five pounds lighter than Tin/Copper shielding. The innovative material allows electrical and mechanical engineers designing interconnect cabling to:

- Reduce the size and weight of interconnect systems
- Eliminate EMI signal distortion in interconnect assemblies
- Solve high cycle/high flexure mechanical assembly issues
- Perform in high-temperature environments

Widely Deployed and Approved for Use Dozens of Air and Space Applications

The mechanical and electrical performance of 100 % **AmberStand®** composite braid is truly outstanding. Independent test reports confirm the following:

- Tensile Strength: 590,000 psi (min)
- Ultimate Elongation: 2.5% (min)
- Operating Temp: -65°C to 220°C
- Thermal Cycling: No Adverse Effects
- Flame: Self Extinguishing
- Specific Gravity: 1.45% (max)
- Flex Test: 50,000 Cycles
- Salt Spray: 500 Hours



Glenair, Inc.

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