

WITH ARMORLITE™ TECHNOLOGY

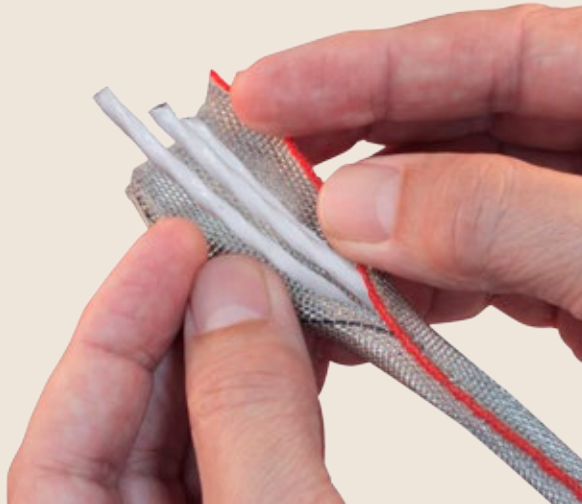


# MasterWrap™ flexible, lightweight wraparound EMI/RFI shielding and abrasion protection

## for spot EMI/RFI shielding coverage and repair of wire harnesses

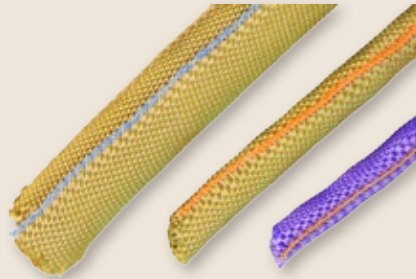


### MasterWrap™



- Up to 70% weight reduction compared to standard metallic EMI shielding
- Replaces harder-to-install tubular EMI/RFI sleeving
- Fast and easy side-entry installation and removal
- Reduces windowing and coverage gaps
- Superior flexibility, durability and repairability
- Temperature tolerant from -65°C to 200°C
- High-frequency EMI shielding performance comparable to standard metallic and lightweight tubular braid
- Outstanding abrasion and mechanical protection
- Halogen-free and RoHS compliant
- 500 hour salt spray corrosion resistance
- 50,000 cycle 90°–120° bend flex tested
- Outstanding caustic chemical and corrosive fluid resistance

Tubular braided sleeving meets the broad range of EMC shielding and mechanical protection requirements of aircraft harness assemblies. But the need to apply conductive shielding materials over installed aircraft wire and cable bundles requires new technology. Legacy self-wrapping cable braid has long been available for EMI/RFI applications and abrasion protection, albeit with poor performance due to its heavy weight, inflexibility, and “windowing,” which results in poor shielding performance. MasterWrap™, a lightweight, easy-to-install, side-entry, self-wrapping shielding solution—incorporating Glenair microfilament ArmorLite™ and composite thermoplastic PEEK fibers—solves these problems and more. MasterWrap™ is ideally suited for both long-run wire harness protection as well as spot coverage and maintenance of EMC cable applications—all with outstanding weight reduction and ease-of-assembly. MasterWrap™ is qualified for use at major aircraft manufacturers for both long cable runs and spot coverage and repairs.



### MATERIAL CONSTRUCTION AND HANDLING PERFORMANCE

*Flexible material eliminates kinking and windowing · Spring members ensure shielding stays tight to wire bundle*

Ultra-lightweight microfilament stainless steel core, plated with conductive nickel for outstanding shielding performance



Interwoven with high-temperature PEEK composite thermoplastic spring members that ensure up to 95% optical coverage

- Material design provides uniform surface with limited interference to structures and clamps
- Provides optimum surface coverage and adherence to wire bundle without buckling during both straight and angled routing
- MasterWrap delivers increased abrasion protection with additional axial edge strength members compared to standard tubular braided shielding
- Reduces kinking and windowing compared to full metal braid solutions for excellent shielding performance