



Mohawk Electrical Systems, Inc
Precision Life Critical Assemblies



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EED Plug Assembly Case Study



Prototyping – Mk17 Plug Assembly: At the request of Navy EOD engineers, Mohawk made **10 prototype plug assembly designs** with unique ESD dissipation methods. In addition to ESD protection, the project included a RF suppressing capacitor and still needed to fit into the standard ID shell. After the Navy tested each design, Mohawk worked with their engineers to choose the lowest cost design that met all safety requirements. Next we produced a **pilot production run** that allowed the Navy to complete qualification testing. Mohawk is currently under sub-contract to manufacture **production quantities** of the Mk17 plug assembly.

Design Assistance: A customer informed us that they were rejecting a large quantity of assemblies because the insulation resistance (IR) was below the end user's minimum specification. After reviewing their data, we recommended, they replace the conductive neoprene material with a high IR EPDM compound. The finished plug assembly demonstrated a final IR several orders of magnitude higher than the original design. **This result not only saved many scrapped units but allowed them to reduce from expensive 100% screening to lot sampling.**

Did you know?

Mohawk's other ordnance assembly products include:

- *Electro-mechanical*
- *Cable & Harness*
- *Printed Circuit Boards*
- *Bridgewire & Soldering*
- *Resistance Welding*

Just in Time Delivery: For a commercial Detonator Company, Mohawk has a blanket contract to provide five unique subassemblies manufactured from 22 separate components. In addition to responding to urgent requests, we adjust our production and stocking levels monthly to match their changing sales needs.

Want to Learn More? Visit our website: www.Mohawk-USA.com or email us: info@mohawk-usa.com.