



Mohawk Electrical Systems, Inc.

EED Plug Assembly Case Studies



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.



Just in Time Delivery: For a commercial detonator company, Mohawk has a blanket contract to provide 5 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. Our JIT scheduling minimizes their inventory costs and purchasing efforts.



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.

Mohawk can custom design a detonator plug assembly that is "Ready to Load" on your unique loading line!

Testing	Bridging	Molding
Electrical	Soldering	Winding
Environmental	Res. Welding	Stripping
Load Test	ESD Dissipation	Crimping
	RF Attenuation	Labeling

Please contact us now for a quote on your challenging EED assemblies.



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