

Connector Solutions.  
Customized Performance.



Materials. Engineering. Precision.

A member of the global group Fenner



# Solutions don't just happen. They are engineered.



Our custom manufacturing capabilities support your connector needs at every step, from design to prototype to product.

At EGC Critical Components we integrate design and engineering, materials expertise, and manufacturing. By bringing all these capabilities together, we provide you with:

- **Novel solutions**
- **Customized performance**
- **More product options**
- **Greater design versatility**

Our experts guide product development from the earliest stages, selecting from a wide range of material and manufacturing options to produce the most effective solution. With decades of combined experience in connector design, we work closely with you to understand your objectives and develop a custom solution—not just one that's off the shelf.



## MATERIALS EXPERTISE

Our thorough understanding of how to appropriately use the most advanced materials is critical to achieving the greatest possible performance. Therefore, our products benefit from a wide spectrum of high-end materials including:

- PEEK
- PEK
- FLUORO silicone
- HNBR elastomers
- FKM
- FFKM

The result is a significant advantage in challenging environments across broad pressure ranges. Through our comprehensive understanding of material compounding, our experts produce physical characteristics tailored for the application. By enhancing performance, we extend these characteristics to a broader, more effective range of products.

## ENGINEERING AND DESIGN

EGC Critical Components focuses the expertise and capabilities of our design and engineering team to address your specific challenges. We are skilled technical partners, working closely with you to understand your objectives and translate them into a connector product that brings value to your business.

Full engineering support, including mold flow and FEA modeling, provides step-by-step development from inception to product. We work with you to develop prototypes and manufacture products in small or large runs.

Our mechanical, material, and process engineers, along with many other specialists, work with the most advanced materials and technology to provide customized solutions. Extensive electrical and internal testing ensures connector integrity, allowing us to produce critical components for the most demanding applications and environments.

## MANUFACTURING

Extensive machining and molding capabilities complement our custom design and materials expertise. Using molded inserts, O-rings and boots, and overmolded seals, our team can meet your design specifications to create specialized components ranging from fiber optic to coaxial and triaxial-shielded connectors. Our capabilities include creating single-pin to 69-pin connector assemblies with contact diameters measuring from .012" to .312". These connectors operate in temperatures from -30°F to 400°F (-34°C to 204°C) and in pressures up to 25,000 psi.

Our processes include injection molding and CNC machining capabilities for manufacturing flexibility and statistical process control for better efficiency and quality control. A unique, cost effective method of designing and manufacturing tooling ensures a quick turnaround time with low capital expense.





To learn how EGC Critical Components can improve performance in your operations, please visit our website at: [EGCcomponents.com](http://EGCcomponents.com)

Or talk with our experts at 281.774.6100

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