

# 905 SMA Damage Resistant FiberGrip® Connector

The 905 SMA Damage Resistant FiberGrip® Connector is a simple to use, epoxyless, interconnect solution for markets where High-Power Delivery is required. This two-piece connector is designed as a safe and cost effective alternative that allows for efficient ease of use during termination.

Amphenol's Damage Resistant FiberGrip® Connector are designed for high power applications and utilize air gap ferrule technology. The air gap ferrule technology eliminates energy absorbing materials near the fiber end face such as epoxies, connector materials, and coatings. The connector ferrules can be made of stainless steel, beryllium copper, or other customer specified material. The ferrule is used as a heat sink pulling the heat quickly away from the fiber. Damage threshold on these types of connectors will vary based on launch conditions and operational wavelength.

The front body of the connector is a ferrule that is designed with a custom, high-tolerance, application specific hole diameter. The rear body contains the proprietary fiber retention system designed to carefully secure the optical fiber, without the risk of damage, to the connector.

Amphenol's accelerated design and development cycle allows for rapid response to the client's custom requirements. Amphenol Fiber Optic Products is dedicated to supporting each customer by providing exceptional quality and long-term reliability of the SMA FiberGrip® connector.

## Features/ Benefits

- Quick and Safe Epoxyless Termination
- Designed for use with High-Power Medical Laser Delivery Systems
- Able to be Sterilized through Autoclave
- Available Custom Optical Fiber Hole Sizes and Ferrule Tip Configurations
- Strain Relief Boots and Dust Caps Available with Medical Grade Material
- Compatible with RFID Integrated Technology



## Common Specifications

### Tolerance for Micro-Drilled Holes in Ferrules:

Fiber Hole Size	Tolerance*
125µm to 149µm	+5/-0µm
150µm to 249µm	+10/-0µm
250µm to 1499µm	+15/-0µm
1500µm to 2300µm	+25/-0µm

\*Custom Tight Tolerance Options Available

### Fiber Retention Values:

The Retention Value is dependent upon the specific size and type of the optical fiber used and can reach values of 20 lbf and higher.\*

\*Amphenol Will Determine Retention Values For Custom Applications

**Amphenol**  
FIBER OPTIC PRODUCTS

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