

# SMA Connectors, Adapters & Receptacles

Amphenol Fiber Optics was a pioneer in developing the first industry standard fiber optic interconnect system by introducing the SMA connector. The 905 and 906 series were the first fiber optic interconnect system to gain industry wide acceptance for military, industrial, data communications and medical applications. Today, Amphenol Fiber Optics continues to support these markets with a wide variety of products that meet the continuing need for the family of SMA's.

The SMA connector family utilizes a threaded coupling nut system for mating and de-mating. Available with zirconia or stainless steel ferrules with custom hole sizes, the SMA is an excellent choice for a robust, low-cost and reliable system.

Amphenol's long standing history and development of the SMA product insures exceptional quality and long term reliability. We continue to support further development and improvement with our standard and custom product offering.

## Features

- Reliable, robust and time-tested as one of the first industry standard fiber optic interfaces.
- Threaded, metal coupling nut for maximum retention.
- Stainless steel ferrules available in custom, precision drilled fiber holes for specialized applications.
- Available with hexagonal coupling nut upon request.



SMA Connectors

## Common Specifications

**Insertion Loss:** 128µm & 144µm SMARt ferrule (zirconia, 905 series):  
 $\leq 0.8\text{dB}$  typical

128µm & 144µm stainless steel ferrule:  
 $\leq 2.0\text{dB}$  typical

### Tolerances for custom, micro-drilled holes for stainless steel ferrules:

Fiber Hole Size	Tolerance
128 & 144µm	+5/-0µm
145 to 200µm	+10/-0µm
201 to 500µm	+5%/-0µm
500µm and higher	+25/-0µm

## SMA Connector Part Numbers

SMA Connectors		
Part #	Description	Boot Color
905-400-5007	SMARt Connector, multimode, 144µm zirconia ferrule, round metal coupling nut	black
905-405-5007	SMARt Connector, multimode, 128µm zirconia ferrule, round metal coupling nut	black
905-150-5001	SMA Connector, multimode, 128µm stainless steel ferrule, round metal coupling nut	black
905-150-5002	SMA Connector, multimode, 144µm stainless steel ferrule, round metal coupling nut	black
905-150-5003	SMA Connector, multimode, 231µm stainless steel ferrule, round metal coupling nut	black

\*-SMA 905 Series stainless steel ferrules are available in custom drill-out sizes. Contact Customer Service for additional information.

Part #	Description	Boot Color
906-150-5001	SMA Connector, multimode, stepped 128µm stainless steel ferrule, round metal coupling nut	black
905-150-5002	SMA Connector, multimode, stepped 144µm stainless steel ferrule, round metal coupling nut	black
905-150-5003	SMA Connector, multimode, stepped 231µm stainless steel ferrule, round metal coupling nut	black

\*-SMA 906 Series stainless steel ferrules are available in custom drill-out sizes. Contact Customer Service for additional information.

\*\*-SMA 906 Series packaged with half and full length alignment sleeves.

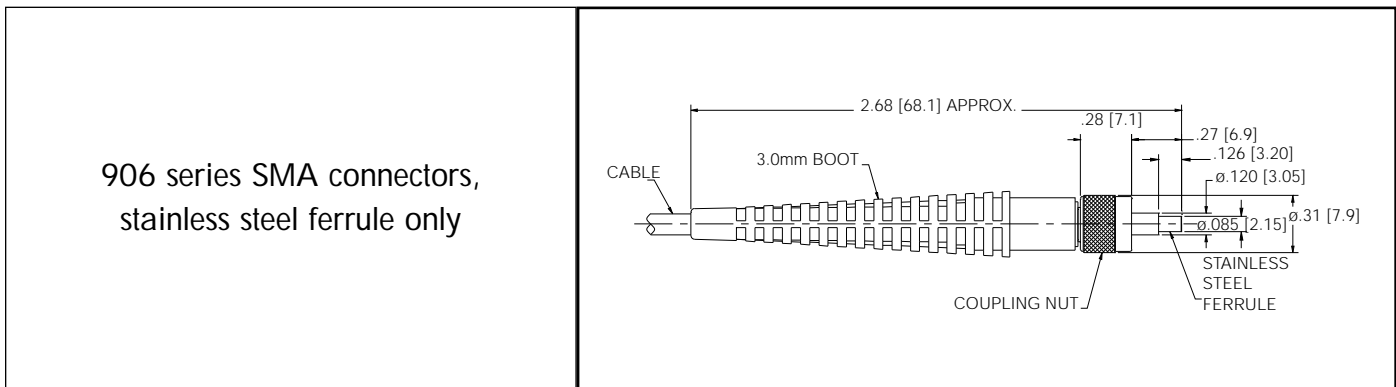
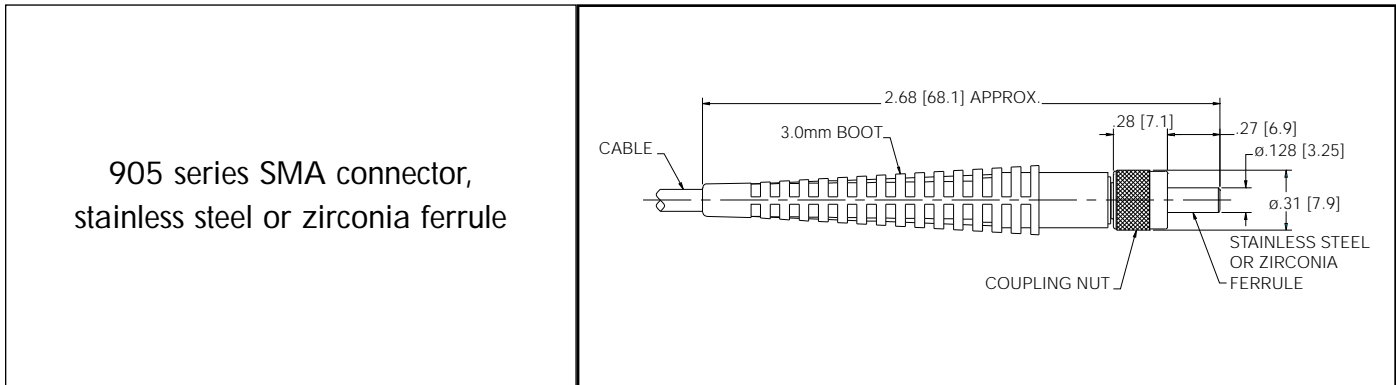
## SMA Adapter & Receptacle Part Numbers

SMA Adapters	
Part #	Description
905-120-5000	SMA Adapter for 905/906 series, bulkhead feed-through type, D-hole mount, jack-jack, nut and washer
905-120-5003	SMA Adapter for 905/906 series, in-line type, jack-jack, 2 nuts and 2 washers
905-120-5004	SMA Adapter for 905/906 series, half-length type, nut and washer
905-120-5008	SMA Adapter for 905/906 series, environmentally-sealed, bulkhead feed-through type, D-hole mount, jack-jack, nut and washer
905-120-5016	SMA Adapter for 905/906 series, bulkhead feed-through type, D-hole mount, jack-jack, nut and washer

SMA Receptacles	
Part #	Description
905-117-5000	905/906 SMA Receptacle, flange mount type, TO-5 can or insert
905-118-5000	905/906 SMA Receptacle, planar screw mount type, TO-5 can or insert
905-138-5001	905/906 SMA Receptacle, planar screw mount type, TO-18, TO-46 or SE 4352 can, keyway, can alignment sleeve
905-138-5002	905/906 SMA Receptacle, screw mount/bulkhead mount type, TO-18, TO-46 or SE 4352 can, keyway, nut and lock washer, can alignment sleeve
905-145-5000	905/906 SMA Receptacle, bulkhead mount type, TO-18, TO-46 or SE 4352 can, keyway, nut and lock washer, can alignment sleeve

Accessories	
Part #	Description
905-163	Dust cap with chain for 905/906 series connectors and adapters
906-101-3002	Half-length alignment sleeve, mates 906 to active device receptacle or converts 906 series to 905 series connectors
906-101-3003	Full length alignment sleeve, preferential hold, mates 906 series to 906 series connectors

# SMA Connector Line Drawings



# SMA Adapters & Receptacles

<p><b>905-120-5000</b></p> <ul style="list-style-type: none"> <li>*905/906 adapter</li> <li>*bulkhead feed-thru</li> <li>*D-hole</li> <li>*jack to jack</li> <li>*nut and washer</li> </ul>		<p><b>905-118-5000</b></p> <ul style="list-style-type: none"> <li>*905/906 receptacle</li> <li>*planar screw mount</li> <li>*TO-5 can or insert</li> </ul>	
<p><b>905-120-5003</b></p> <ul style="list-style-type: none"> <li>*905/906 adapter</li> <li>*in-line</li> <li>*jack to jack</li> <li>*2 nuts and 2 washers</li> </ul>		<p><b>905-138-5001</b></p> <ul style="list-style-type: none"> <li>*905/906 receptacle</li> <li>*planar screw mount</li> <li>*TO-18 &amp; TO-46</li> <li>*SE 4352 can</li> <li>*keyway</li> <li>*can alignment sleeve</li> </ul>	
<p><b>905-120-5004</b></p> <ul style="list-style-type: none"> <li>*905/906 adapter</li> <li>*half-length</li> <li>*nut and washer</li> </ul>		<p><b>905-138-5002</b></p> <ul style="list-style-type: none"> <li>*905/906 receptacle</li> <li>*screw mount/bulkhead</li> <li>*TO-18, TO-46 or SE 435</li> <li>*keyway</li> <li>*can alignment sleeve</li> <li>*nut and washer</li> </ul>	
<p><b>905-120-5008</b></p> <ul style="list-style-type: none"> <li>*905/906 adapter</li> <li>*environmentally sealed</li> <li>*bulkhead feed-thru</li> <li>*D-hole</li> <li>*jack to jack</li> <li>*nut and washer</li> </ul>		<p><b>905-145-5000</b></p> <ul style="list-style-type: none"> <li>*905/906 receptacle</li> <li>*bulkhead mount</li> <li>*TO-18 &amp; TO-46</li> <li>*keyway</li> <li>*nut/lock washer</li> <li>*SE 4352 can</li> <li>*can alignment sleeve</li> </ul>	
<p><b>905-120-5016</b></p> <ul style="list-style-type: none"> <li>*905/906 adapter</li> <li>*bulkhead feed-thru</li> <li>*D-hole</li> <li>*jack to jack</li> <li>*nut and washer</li> </ul>		<p><b>905-163</b></p> <ul style="list-style-type: none"> <li>*dustcap w/chain</li> <li>*for 905/906 connectors and adapters</li> </ul>	
<p><b>905-117-5000</b></p> <ul style="list-style-type: none"> <li>*905/906 receptacle</li> <li>*flange mount</li> <li>*TO-5 can or insert</li> </ul>			