

## 806-019 In-Line Receptacle

Series 806 Mil-Aero



**Tight-tolerance MIL-DTL-38999 Type Micro Miniature In-Line Receptacle.** Made for use with high-density sizes 16 and 20HD snap-in, rear-release termini. Shallow-angle triple-start stub ACME threads prevent decoupling in high vibration, shock, and high-altitude aerospace and military/defense applications. Available with accessory threads or shield termination banding porch. Shell materials include Aluminum alloy and stainless steel. Keyed polarization for mis-mate protection. Available insert arrangements support from three to thirty-one singlemode and multimode termini. Tight contact pitch and reduced connector dimensions results in up to 50% size and weight savings compared to conventional aerospace-grade fiber optic connectors.

### SPECIFICATIONS

- Operating temperature: connector capable of -55°C to +200°C. Temperature rating for fiber applications limited by cable and epoxy used.
- Termination method: epoxy/polish
- Mating durability: 500 cycles
- Random vibration: 49.5 Grms, EIA-364-28 Test Condition V. Maximum optical discontinuity 0.5 dB, 50 microseconds.
- Mechanical shock: 300 G, TIA-455-14 Test Condition D. Maximum optical discontinuity 0.5 dB, 50 microseconds.

### CONNECTOR CONSTRUCTION

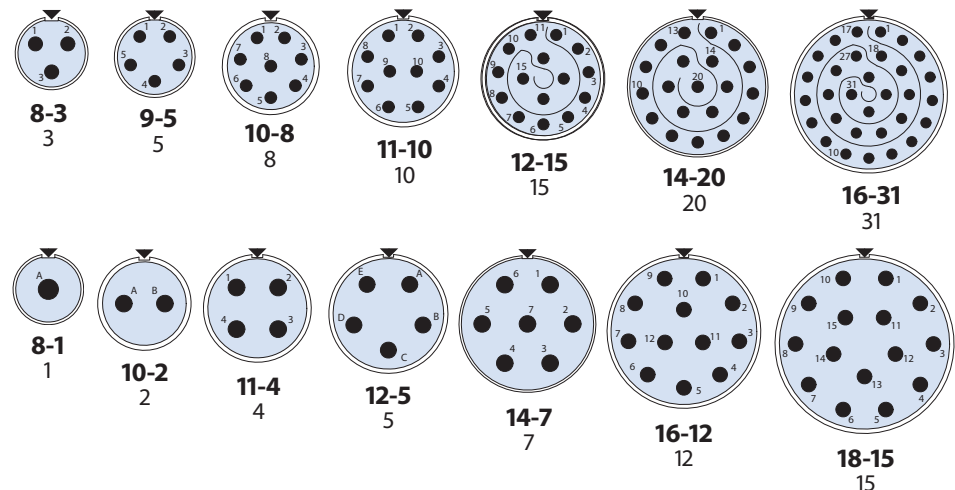
- Shell: aluminum or stainless steel
- Contacts: copper alloy, gold plating
- Wire grommet: fluorosilicone
- Dielectric inserts: high grade rigid dielectric
- Peripheral seal: fluorosilicone
- Contact retention clips: copper alloy
- Retainer rings: stainless steel, passivated

### HOW TO ORDER

Sample Part Number	806-019	-ME	10-8	A	M	A
<b>Product</b>	806-019 = In-Line Receptacle					
<b>Shell Material and Finish</b>	ME = Aluminum, Electroless Nickel MT = Aluminum, Ni/PTFE ZR = Aluminum, Black Zinc-Nickel NF = Aluminum, Olive Drab Cadmium Z1 = Stainless Steel, Passivated ZL = Stainless Steel, Electro-Deposited Nickel					
<b>Arrangement Number (Shell Size - Insert Arr.)</b>	See Arrangements table					
<b>Contact Type</b>	<b>Connector supplied without termini</b> A = Pin B = Socket order fiber optic termini separately					
<b>Shell Style</b>	M = Metric accessory threads B = Nano Band platform					
<b>Polarizing Position</b>	A B C D E F					

### SERIES 806 ARRANGEMENTS COMPATIBLE WITH 20HD FIBER OPTIC TERMINI

Mating face of pin connector. Socket numbering is reversed.  
Symbol ▼ indicates master key location.

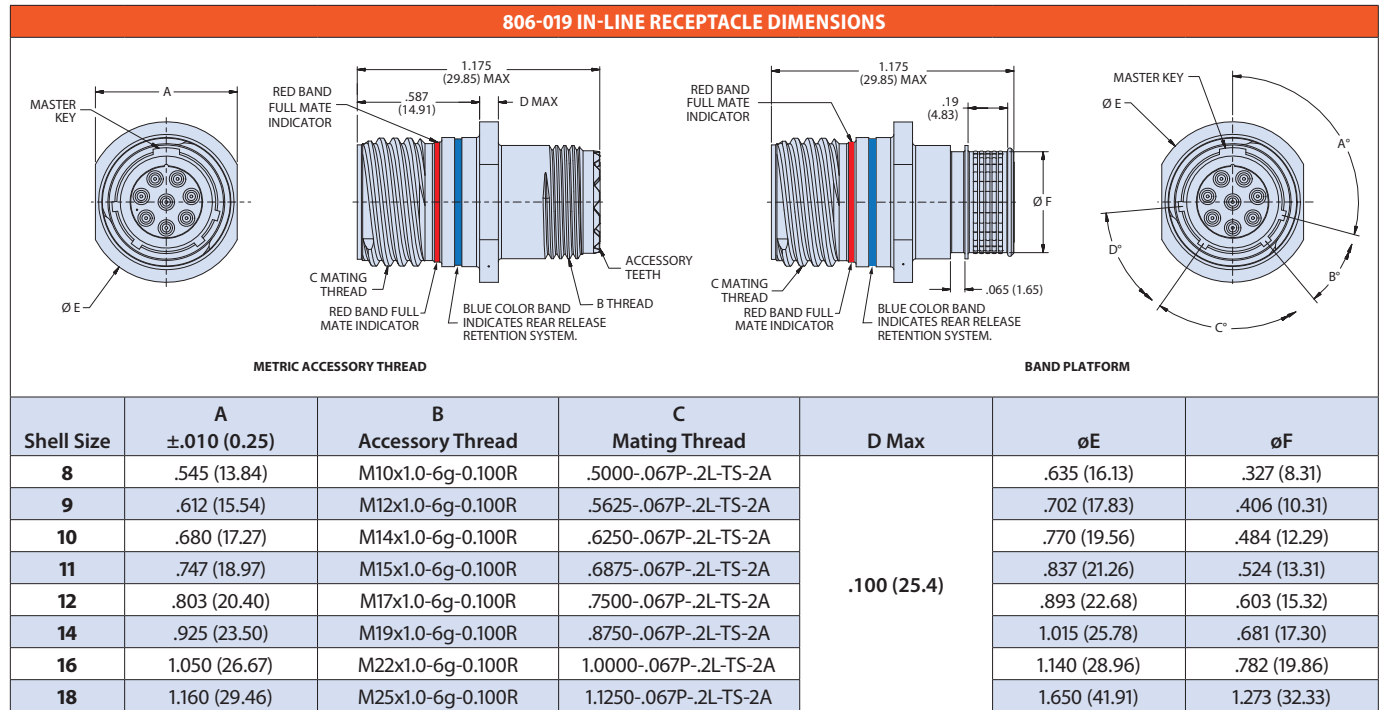


Consult factory for additional arrangements

# MICRO MINIATURE CIRCULAR Series 806 Mil-Aero Fiber Optic



## 806-019 In-Line Receptacle



Series 806 Mil-Aero

Higher density arrangements available. Consult factory for additional sizes.

HOW-TO-ORDER 20HD FIBER OPTIC TERMINI FOR SERIES 806 CONNECTORS				
Termini Type	Optical Fiber Type	Part Number	ØA Ferrule Hole	Fiber Size Core/Cladding
Pin	Singlemode	<a href="#">181-134-1255</a>	125.5 microns	9/125
Pin	Multimode	<a href="#">181-134-126</a>	126.0 microns	50/125, 62.5/125
Socket	Singlemode	<a href="#">181-135-1255</a>	125.5 microns	9/125
Socket	Multimode	<a href="#">181-135-126</a>	126.0 microns	50/125, 62.5/125

HOW-TO-ORDER 16 FIBER OPTIC TERMINI FOR SERIES 806 CONNECTORS				
Termini Type	Optical Fiber Type	Part Number	ØA Ferrule Hole	Fiber Size Core/Cladding
Pin	Single Mode	<a href="#">181-145-125</a>	125.5 microns	9/125
Pin	Multi Mode	<a href="#">181-145-126</a>	126.0 microns	50/125, 62.5/125
Pin	Multi Mode	<a href="#">181-145-144</a>	144.0 microns	100/140
Socket	Single Mode	<a href="#">181-146-125</a>	125.5 microns	9/125
Socket	Multi Mode	<a href="#">181-146-126</a>	126.0 microns	50/125, 62.5/125
Socket	Multi Mode	<a href="#">181-146-144</a>	144.0 microns	100/140