

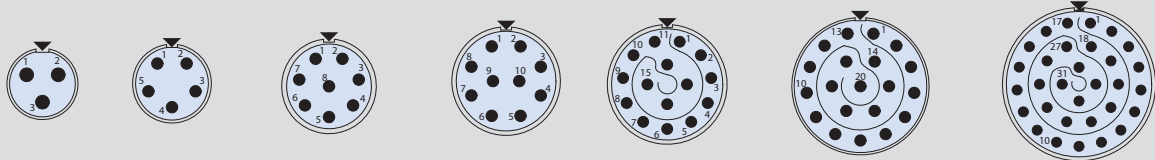
# Series 806 Mil-Aero Connectors

## Fiber Optic Connectors, Termini, and Backshells

### Series 806 Arrangements compatible with #20HD Fiber Optic Termini

Mating face of pin connector. Socket numbering is reversed.

Symbol ▼ indicates master key location.

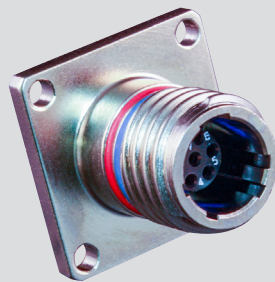


Arrangement No.	<b>8-3</b>	<b>9-5</b>	<b>10-8</b>	<b>11-10</b>	<b>12-15</b>	<b>14-20</b>	<b>16-31</b>
No. of Termini	3	5	8	10	15	20	31

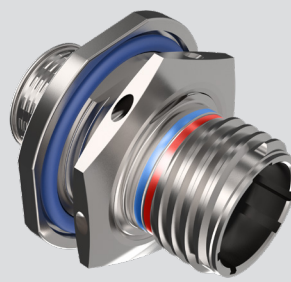
### CONNECTOR PLUG AND RECEPTACLE SHELL STYLES FOR #20HD FIBER OPTIC TERMINI



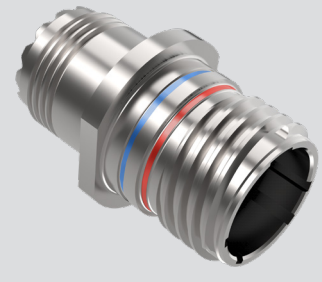
Cable Plug



Square-Flange Receptacle



Jam-nut Receptacle



In-Line Receptacle

### #20HD FIBER OPTIC TERMINI FOR SERIES 806 MIL-AERO CONNECTORS



Single or multimode. Ceramic ferrule. 0.5 dB loss. Size 20HD fiber optic termini are compatible with Series 806 connectors with size 20HD contact arrangements. These snap-in, rear release termini feature precision ceramic ferrules and alignment sleeves for accurate fiber alignment. Typical insertion loss 0.5 dB. Fits 50/125 and 62.5/125 multimode and 9/125 singlemode fiber.

#### MATERIAL/FINISH

- Ferrule, alignment sleeve: zirconia ceramic
- Body, shroud: copper/nickel/zinc alloy
- Spring (socket, not shown): SST/passivated
- Protective cover (socket): BeCu alloy/nickel plated

#### How-To-Order #20HD Fiber Optic Termini for Series 806 Connectors

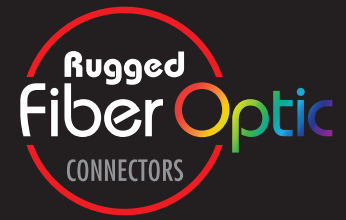
Termini Type	Optical Fiber Type	Part Number	ØA Ferrule Hole	Fiber Size Core/Cladding
Pin	Singlemode	<a href="#">181-134-1255</a>	125.5 microns	9/125
Pin	Multimode	<a href="#">181-134-126</a>	126.0 microns	50/125, 62.5/125
Socket	Singlemode	<a href="#">181-135-1255</a>	125.5 microns	9/125
Socket	Multimode	<a href="#">181-135-126</a>	126.0 microns	50/125, 62.5/125

### FACTORY-TERMINATED SERIES 806 FIBER OPTIC CABLE ASSEMBLIES



Glenair is able to supply turnkey fiber optic cable assemblies for both environmental applications as well as non-jacketed harnesses for use inside the box. Rugged Series 806 Mil-Aero with size #20 HD fiber optic termini are a significant size and weight savings compared to conventional D38999 or other standards. Please consult the factory for design assistance and quoting.

FIBER OPTIC, MICRO MINIATURE CIRCULAR  
**Series 806**  
**Mil-Aero Connectors**  
 Fiber Optic Connectors

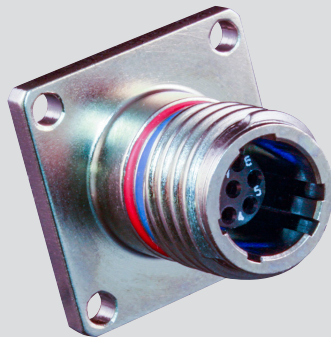


**806-012 CABLE PLUG WITH #20HD FIBER OPTIC TERMINI**



How To Order Series 806 Plugs						
SAMPLE PART NUMBER	806-012	-ME	10-8	B	M	A
Product	806-012 = Cable Plug					
Shell Material and Finish	ME = Aluminum, Electroless Nickel MT = Aluminum, Ni/PTFE ZR = Aluminum, Black Zinc-Nickel NF = Aluminum, Olive Drab Cadmium Z1 = Stainless Steel, Passivated					
Arrangement Number (Shell Size - Insert Arr.)	8-3, 9-5, 10-8, 11-10, 12-15, 14-20, 16-31 (see table on previous page)					
Contact Type	Connector supplied without termini A = Pin B = Socket order fiber optic termini separately					
Shell Style	M = Metric accessory threads B = Nano Band platform					
Polarizing Position	A B C D E F					

**806-013 SQUARE FLANGE RECEPTACLE WITH FIBER OPTIC TERMINI**



How To Order Series 806 Square-Flange Receptacles							
SAMPLE PART NUMBER	806-013	-ME	10-8	A	B	T	A
Product	806-013 = Panel Receptacle, Square Flange						
Shell Material and Finish	ME = Aluminum, Electroless Nickel MT = Aluminum, Ni/PTFE ZR = Aluminum, Black Zinc-Nickel NF = Aluminum, Olive Drab Cadmium Z1 = Stainless Steel, Passivated						
Arrangement Number (Shell Size - Insert Arr.)	8-3, 9-5, 10-8, 11-10, 12-15, 14-20, 16-31 (see table on previous page)						
Contact Type	Connector supplied without termini A = Pin B = Socket order fiber optic termini separately						
Shell Style	M = Metric accessory threads B = Nano Band platform						
Mounting Hole Style	T = Thru holes C = Clinch nut, #4-40 (rear panel mounting)						
Polarizing Position	A B C D E F						

**SPECIFICATIONS**

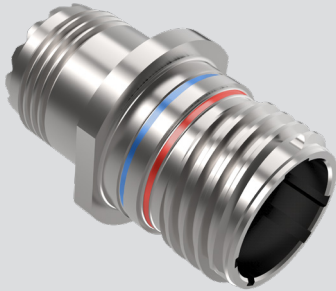
- Operating temperature: connector capable of -55°C to +200°C. Temperature rating for fiber applications limited by cable an epoxy used.
- Termination method: epoxy/polish
- Mating durability: 500 cycles
- Random vibration: 49.5 Grms, EIA-364-28 Test Condition V. Maximum optical discontinuity 0.5 dB,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

# Series 806 Mil-Aero Connectors

## Fiber Optic Connectors

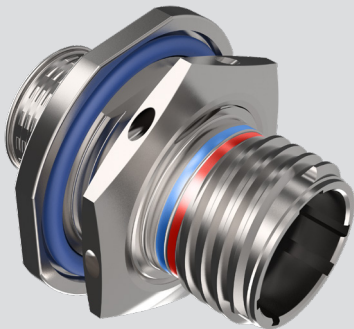


### 806-019 IN-LINE RECEPTACLE WITH FIBER OPTIC TERMINI



How To Order Series 806 In-Line Receptacles						
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					
<b>Arrangement Number (Shell Size - Insert Arr.)</b>	8-3, 9-5, 10-8, 11-10, 12-15, 14-20, 16-31 (see table on previous page)					
<b>Contact Type</b>	Connector supplied without termini 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					

### 806-020 JAM-NUT RECEPTACLE WITH FIBER OPTIC TERMINI



How To Order Series 806 Jam-nut Receptacles						
SAMPLE PART NUMBER	806-020	-ME	10-8	A	M	A
<b>Product</b>	806-020 = Jam-nut 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					
<b>Arrangement Number (Shell Size - Insert Arr.)</b>	8-3, 9-5, 10-8, 11-10, 12-15, 14-20, 16-31 (see table on previous page)					
<b>Contact Type</b>	Connector supplied without termini 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					

### SPECIFICATIONS

- Operating temperature: connector capable of -55°C to +200°C. Temperature rating for fiber limited by cable an 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.