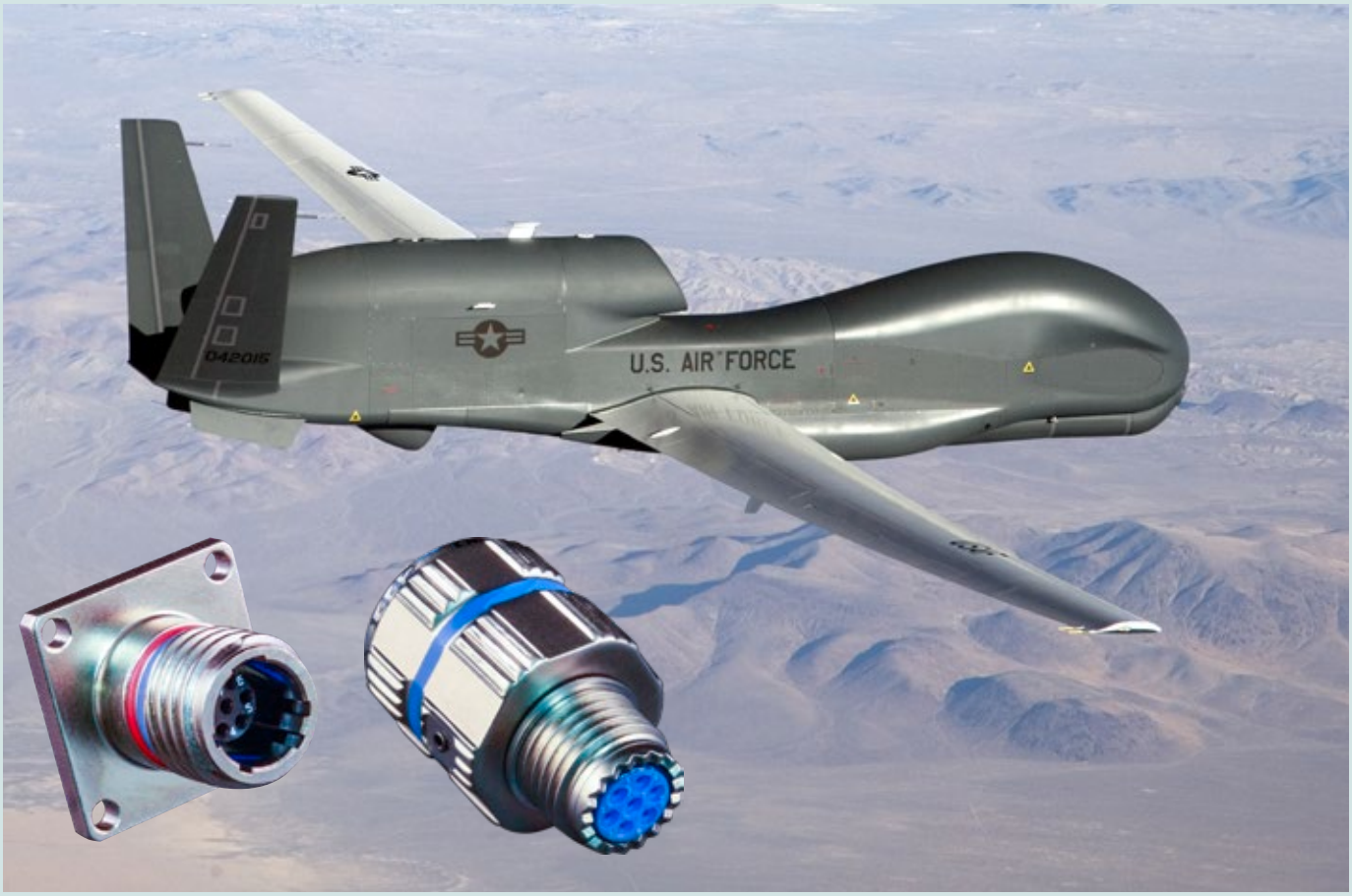
GLENAIR
SIGNATURE
FIBER OPTIC
CONNECTION
SYSTEMS

Rugged Fiber Optic CONNECTORS

Series 806 Mil-Aero: Advanced fiber optic performance, reduced size and weight



Innovative fiber optic / electrical connector design meets key performance benchmarks for harsh vibration, shock, and environmental settings in rigid conformance with MIL-DTL-38999 Series III – but at nearly half the size and weight

- **Next-generation small form factor aerospace-grade circular connector**
- **Designed for harsh application environments such as military and commercial aircraft**
- **Outstanding environmental, electrical, optical, and mechanical performance**
- **Integrated anti-decoupling technology**
- **High density 20HD fiber termini arrangements**

SAVE SIZE AND WEIGHT WITH SERIES 806 CONNECTORS

Series 806 Mil-Aero
smallest shell (size 8)
.500 in. mating threads
3 #20 electrical or optical
contacts / termini

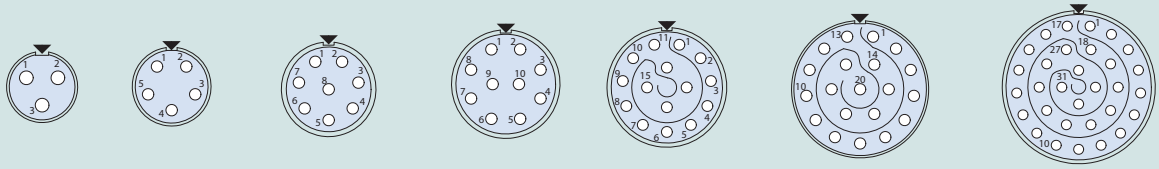
MIL-DTL-38999
smallest shell (size 11)
.750 in. mating threads
2 #16 electrical or optical
contacts / termini

Signature fiber optic connection system
Insert arrangements, how to order termini

Series 806 Arrangements compatible with #20HD Fiber Optic Termini

Mating face of pin connector. Socket numbering is reversed.

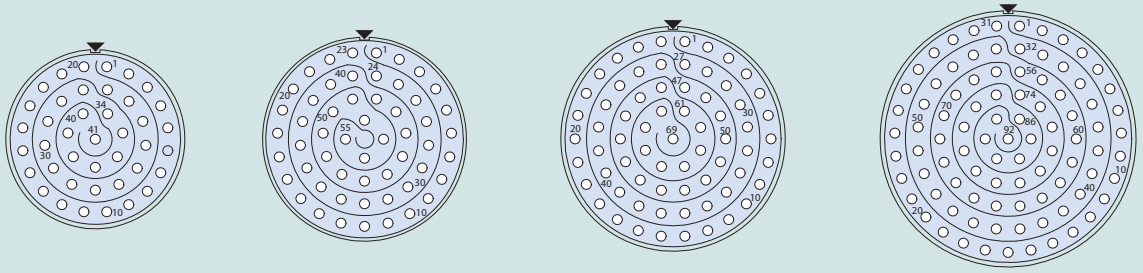
Symbol ▼ indicates master key location.



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

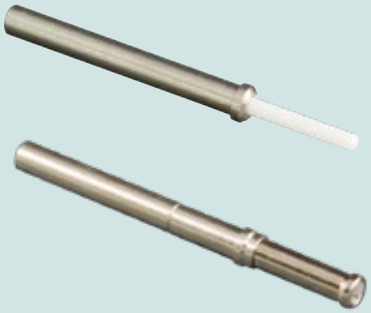
Mating face of pin connector. Socket numbering is reversed.

Symbol ▼ indicates master key location.



Arrangement No.	18-41	20-55	22-69	24-92
No. of Termini	41	55	69	92

#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.

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	181-134-1255	125.5 microns	9/125
Pin	Multimode	181-134-126	126.0 microns	50/125, 62.5/125
Socket	Singlemode	181-135-1255	125.5 microns	9/125
Socket	Multimode	181-135-126	126.0 microns	50/125, 62.5/125

SPECIFICATIONS

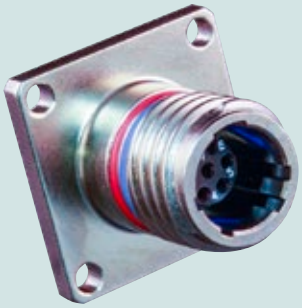
- Operating temperature: -55°C to +125°C. Temperature rating depends on the cable and epoxy used.
- Termination method: epoxy/polish
- Mating durability: 500 cycles
- Random vibration: 49.5 Grms, EIA-364-28 Test Condition V. Maximum optical discontinuity 0.5 dB, 50 microseconds.
- Mechanical shock: 300 G, TIA-455-14 Test Condition D. Maximum optical discontinuity 0.5 dB, 50 microseconds.

MATERIAL/FINISH

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

Signature fiber optic connection system
How to order connectors

How To Order Series 806 Plugs						
SAMPLE PART NUMBER	**806-012**	**-ME**	**8-3**	**S**	**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**, **18-41**, **20-55**, **22-69**, **24-92** (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 (Table 2)	**A B C D E F**					



How To Order Series 806 Square-Flange Receptacles							
SAMPLE PART NUMBER	**806-013**	**-ME**	**12-26**	**P**	**B**	**C**	**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**, **18-41**, **20-55**, **22-69**, **24-92** (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 (Table 2)	**A B C D E F**						

Signature fiber optic connection system
How to order connectors

How To Order Series 806 In-Line Receptacles						
SAMPLE PART NUMBER	**806-019**	**-ME**	**14-20**	**P**	**B**	**A**
Product	**806-019** = Line Receptacle					
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**, **18-41**, **20-55**, **22-69**, **24-92** (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 (Table 2)	**A B C D E F**					

How To Order Series 806 Jam Nut Receptacles						
SAMPLE PART NUMBER	**806-020**	**-ME**	**10-15**	**S**	**M**	**A**
Product	**806-020** = Jam Nut Receptacle					
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**, **18-41**, **20-55**, **22-69**, **24-92** (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 (Table 2)	**A B C D E F**					