



## Series 811 Connectors for Space Flight

The Series 811 connector is well-suited for space-flight applications. High density TwistPin contacts and other materials are already used in the NASA-approved Glenair Micro-D connector. The standard Series 811 connector with nickel plated aluminum shells is considered to be "flight-ready", but optional NASA screening is also available.

### HOW TO ORDER SPACE GRADE SERIES 811 CONNECTORS

#### Step 1: Find a Standard Part Number

Electroless nickel plated shells are preferred for space flight. Cadmium plating is prohibited.

#### Step 2: Select a NASA Screening Level

The term "Screening Level" refers to the final inspection procedure.  
Level 1 for mission-critical highest reliability  
Level 2 for high reliability  
Level 3 for standard reliability

#### Step 3: Choose Outgassing Processing

The fluorosilicone rubber seals commonly used on aerospace-grade connectors such as MIL-DTL-38999 and Series 80 connectors, along with certain bonding agents and inks, do not meet NASA outgassing requirements unless the connector is specially processed. Glenair outgassing tests have shown oven baking or thermal vacuum outgassing processing are sufficient to reduce outgassing levels to NASA standards. Oven baking is more economical than thermal vacuum outgassing.

#### Step 4: Select the Mod 429 Code that Matches the Desired Level of Screening and Outgassing

Use the following table to choose the right modification code. Add the mod code to the connector part number. Example: 811-001-06ME5-7PA-429C429C7PA-429C7PA-429C

### Application Note:

#### Outgassing

The Series 811 Mighty Mouse HD connector is suitable for use in space applications; however, the fluorosilicone seal exceeds the outgassing limits of ASTM E595. A simple oven bakeout is sufficient to remove volatile materials. Special thermal vacuum outgassing is available using the suffix codes shown at right. A second option is to remove the interfacial seal from the socket connector, thus eliminating the need for special outgassing processing.

### NASA SCREENING LEVELS AND MODIFICATION CODES

NASA Screening Level	Special Screening, Connector Supplied with Interfacial Seal	Special Screening, Connector Supplied without Interfacial Seal	Special Screening Plus Outgassing Processing	
			8 Hour Oven Bake 400° F.	Thermal Vacuum Outgassing 24 hrs. 125° C.
Level 1 Highest Reliability	Mod 429B	Mod 429F	Mod 429J	Mod 429C
Level 2 High Reliability	Mod 429	Mod 429D	Mod 429K	Mod 429A
Level 3 Standard Reliability	(Use standard P/N)	Mod 432	Mod 186	Mod 186M

Dimensions in Inches (millimeters) are subject to change without notice.