MIL-DTL-24308 Type
D-Subminiature Hermetic Connectors
Materials, Finishes and Specifications

MATERIALS AND FINISHES	
Contacts	Ferrous alloy, gold plated per ASTM B488, type II, code C, class 1,27.
Shell, class H	Carbon steel, tin/lead plated over nickel underplating (3% min. lead)*
Shell, class K	304L alloy stainless steel, dull nickel plated
Insulators	Vitreous glass

SPECIFICATIONS		
Property	**Standard Density (#20)**	**High Density (#22)**
Current rating	5 Amps per contact maximum	3 Amps per contact maximum
Voltage rating (DWV)	70,000 ft. (21,336 meters)	500 VAC sea level
Voltage rating (DWV)	175 VAC 70,000 (21,336 m)	115 VAC 70,000 (21,336 m)
Insulation resistance	5 gigaohms minimum @ 500 VDC	
Hermeticity	meets or exceeds requirement of MIL-DTL-24308	
Contact resistance	165 milliohms maximum	
Thermal vacuum outgassing (class K)	1.0% max. TML , 0.1% max. CVCM	
Durability	500 mating cycles	
Operating temperature	-55 (+0/-3)° C to +125 (+3/-0)° C*	
Shock	50 g.	
Vibration	20 g.	
Corrosion resistance (salt spray)	48 hours	
Maximum wire size	#20 AWG	#22 AWG

* For O-ring sealing type, refer to Table I for temperature range limitations

TABLE I		
Elastomer	**O-Ring Temperature Range**	**Assembly Temperature Range**
Viton	-26°C to 205°C (-15°F to 400°F)	-26C to 155°C (-15°F to 311°F)
Nitrile	-34°C to 121°C (-30°F to 250°F)	-34°C to 121°C (-30°F to 250°F)
Fluorosilicone	-73°C to 177°C (-100°F to 350°F)	-55°C to 155°C (-67°F to 311°F)
Silicone	-54°C to 232°C (-100°F to 450°F)	-54°C to 155°C (-65°F to 311°F)
EPDM	-57°C to 149°C (-70°F to 300°F)	-55°C to 149°C (-67°F to 300°F)
Neoprene	-37°C to 107°C (-35°F to 225°F)	-37°C to 107°C (-35°F to 225°F)

Catalog Notes

For all parts in this catalog:

- All parts will be identified with manufacturer's name and part number, space permitting.
- Dimensions are subject to change without notice. Metric dimensions appear in parentheses in diagrams and tables, based on 1 inch = 25.4 mm, for reference only. Unless otherwise specified, the following other dimensional tolerances apply:

  .xx = ± .03 (0.8) Lengths = ± .060 (1.52)
  .xxx = ± .015 (0.4) Angles = ± 5°

Customers are advised to consult the factory for the latest specifications, particularly to confirm critical dimensions such as connector lengths, threads, and so on. When errors or mistakes are brought to our attention, corrected content is posted immediately to www.glenair.com.

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

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