



Versatile. Highly Reliable. MIL-DTL-24308 Qualified.

Military Grade D-Subminiature Connectors for Aerospace & Defense Applications

Cannon's MIL-DTL-24308 Qualified D-Subminiature offers a ruggedized interconnect solution that transfers data, power, and signal in a small, weight-saving design. Available in standard and select high density configurations, these robust connectors feature a versatile interface for mission-critical platforms and programs.

Cannon's MIL-DTL-24308 Connectors are highly engineered to operate in temperatures from -55°C to $+125^{\circ}\text{C}$ and are available in MIL-Spec shell sizes 1-5, with removable crimp contacts and non-removable solder contacts. This contact offering can be configured for in-line termination using solder cup and crimp contacts, or for straight and 90-degree printed circuit board (PCB) mounted applications. Cannon also offers a range of tooling, accessories and SAE-AS85049/48/50 qualified backshells for the MIL-DTL-24308 Connector Series.

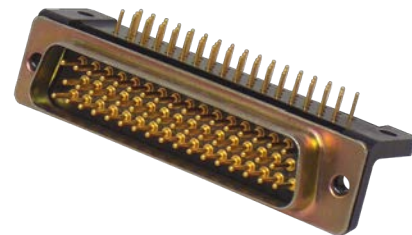
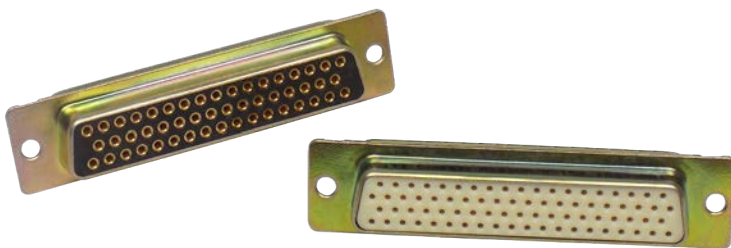
Ideally suited for a wide range of demanding, harsh environment Aerospace & Defense applications, Cannon's MIL-DTL-24308 Connectors are the ultimate choice for long-range subsonic cruise missiles, technology driven UAVs, advanced shipboard communications, and next generation commercial aircraft systems.

The ITT Cannon Difference

- Global capabilities & local support
- State-of-the-art manufacturing facilities
- Proven engineering & application expertise
- A committed business partner

Key Features

- Solder & crimp cable versions
- Straight & right angle PCB mount versions
- Fixed or float mount options
- Standard & High Density Configurations
- DWV Rating: 1,000 VAC at sea level
- Current Rating: 5.0 & 7.5 Amps
- Mating Cycles: 500



Markets & Applications



MILITARY AVIATION



MISSILES & ORDNANCE



SHIPBOARD SYSTEMS



COMMERCIAL AEROSPACE

MIL-DTL-24308 Selection Guide



How to Order | Part Number Configurator for Slash Sheets 1-4, 23 & 24, Finishes F & Z

M24308/1

2

F

Specification Sheet Number

M24308/1	Class G Polarized Shell, Receptacle, Socket Contacts, Solder Type
M24308/2	Class G Polarized Shell, Receptacle, Socket Contacts, Crimp Type
M24308/3	Class G Polarized Shell, Pin Contacts, General Purpose, Solder Type
M24308/4	Class G Polarized Shell, Pin Contacts, General Purpose, Crimp Type
M24308/23	Class G Nonenvironmental, Polarized Shell, Socket Contacts Printed Wiring Board Termination Types (Standard Density Only)
M24308/24	Class G Nonenvironmental, Polarized Shell, Pin Contacts Printed Wiring Board Termination Types (Standard Density Only)

Data Sheet Number

Please refer to the MIL-DTL-24308 detailed specification sheet for applicable dash numbers

Finish

F-Cadmium
Z-Zinc

Test Description	Test Requirements	Test Method																								
Mating/Unmating Force	<table> <thead> <tr> <th>Shell Size</th> <th>Layout</th> <th>Max Unmating (lbs.)</th> <th>Max Mating (lbs.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9</td> <td>6</td> <td>10</td> </tr> <tr> <td>2</td> <td>15</td> <td>10</td> <td>17</td> </tr> <tr> <td>3</td> <td>25</td> <td>17</td> <td>28</td> </tr> <tr> <td>4</td> <td>37</td> <td>24</td> <td>39</td> </tr> <tr> <td>5</td> <td>50</td> <td>30</td> <td>49</td> </tr> </tbody> </table>	Shell Size	Layout	Max Unmating (lbs.)	Max Mating (lbs.)	1	9	6	10	2	15	10	17	3	25	17	28	4	37	24	39	5	50	30	49	EIA-364-13
Shell Size	Layout	Max Unmating (lbs.)	Max Mating (lbs.)																							
1	9	6	10																							
2	15	10	17																							
3	25	17	28																							
4	37	24	39																							
5	50	30	49																							
Contact Retention	<ul style="list-style-type: none"> Contacts shall be retained in their inserts by a 9-pound (minimum) force The axial displacement of contacts shall not exceed .012 inch while under load 	EIA-364-29																								
Insulation Resistance	<ul style="list-style-type: none"> > 5,000 Megohms (min.) Normal conditions > 1 Megohm (min.) post Humidity 	EIA-364-21																								
Contact Resistance	<p>Normal Conditions:</p> <ul style="list-style-type: none"> 55 mV max at 7.5 A. (Wired, 20 AWG) 45 mV max at 3.0 A. (Wired, 24 AWG) 45 mV max at 3.0 A. (PWB) <p>After Salt Spray:</p> <ul style="list-style-type: none"> 65 mV max at 7.5 A. (Wired, 20 AWG) 55 mV max at 3.0 A. (Wired, 24 AWG) 55 mV max at 3.0 A. (PWB) 	EIA-364-06																								
Vibration	<ul style="list-style-type: none"> No damage and no loosening of parts due to vibration No interruption of electrical continuity longer than 1 microsecond 	EIA-364-28, Test Condition IV																								
Shock	<ul style="list-style-type: none"> No damage and no loosening of parts No interruption of electrical continuity longer than 1 microsecond 	EIA-364-27, Test Condition E																								
Durability	<ul style="list-style-type: none"> No electrical or mechanical defects after 500 cycles of mating and unmating 	EIA-364-09 200 ± 100 cycles/hour																								
Salt Spray (Corrosion)	<ul style="list-style-type: none"> No exposure of base metal due to corrosion which will affect performance Product will meet further tests as specified 	EIA-364-26, Test Condition B																								
Fluid Immersion	<ul style="list-style-type: none"> Meets mating and unmating forces post immersion in MIL-PRF-83282 Hydraulic Fluid and MIL-PRF-23699 Lubricating Fluid 	EIA-364-10																								

Why ITT

ITT is a focused, multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT Cannon is a leading global manufacturer of connector products serving international customers in the aerospace and defense, industrial and medical end markets. We design and engineer a variety of interconnect solutions that make it possible to transfer data, signal and power in an increasingly connected world.

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