



## Ultra-High Temperature, High Density Micro-MDM Connector: 230° C Rated

With the increasing demand for smaller, ruggedized connectors that can withstand extreme temperatures, Cannon’s Ultra-High Temp Micro-MDM F300 Series offers exceptional reliability and performance in a lightweight, space-saving design. This highly engineered, high temperature microminiature connector is ideally suited for a wide range of harsh environment applications:



**OIL & GAS**



**AEROSPACE & DEFENSE**



**TRANSPORTATION & INDUSTRIAL**

### ITT Cannon Offers a Family of Micro-MDM Connectors from Industry Standard to Ultra-High Temperature

<p><b>125 °C</b></p> <p>Industry Standard MIL-DTL-83513</p>	<p><b>150 °C</b></p> <p>Standard Micro-MDM</p>	<p><b>200 °C</b></p> <p>High Temp Micro-MDM F222</p>	<p><b>NEW 230 °C</b></p> <p>Ultra-High Temp Micro-MDM F300</p>
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#### Ultra-High Temperature Micro MDM F300

The Ultra High Temp Micro-MDM series is qualification tested to withstand 230°C continuous operating temperature for 500 hours and meets the harsh requirements of the Oil and Gas exploration industries, which exceed those of the MIL-DTL-83513 specification. It is designated by an F300 modification code and uses high performance micro twist pin contacts, special insulating materials and high temperature wire.

#### The CANNON Difference:

- 20+ years of experience in design and manufacturing of high temperature connectors
- Proven reliability and a commitment to delivering the best solution for standard and custom design requirements
- Designed in accordance with MIL-DTL-83513
- High performance design
- High reliability
- Exceptional versatility

#### Key Features:

- Withstands 230° Celsius continuous operating temperature for 500 hours
- Stainless steel shells (passivation only)
- High temp Liquid Crystal Polymer insulator material
- Nickel plated copper wire PTFE jacket per M22759/87
- Designed for critical cable to cable applications
- High reliability Micro twist pin and socket contacts
- Durability: 500 mating cycles
- Operating temperature: -55° C to 230° C

# How to Order

## Ultra-High Temp Micro-MDM Connector



MDM - 25 P R 003 L - F300

### SERIES

**MDM** - Micro Metal Shell

### CONTACT ARRANGEMENT

9, 15, 21, 25, 31 & 37

### CONTACT TYPE

**P** - Pin / **S** - Socket

### TERMINATION TYPE

**R** - Insulated Standards Wire / **S** - Solder Pot

### TERMINATION MODIFIER CODE

(Consult Factory for all 'R', 'T' and 'U' Mod Codes for Lead Material and Length)

### HARDWARE

**P** - Jackpost

**R1** - Rear Panel Mount Jackpost  
.032" Panel

**R2** - Rear Panel Mount Jackpost  
.047" Panel

**R3** - Rear Panel Mount Jackpost  
.062" Panel

**R4** - Rear Panel Mount Jackpost  
.093" Panel

**R5** - Rear Panel Mount Jackpost  
.125" Panel

**K** - Jackscrew-Standard Profile

**L** - Jackscrew-Low Profile

**K** - Jackscrew-Standard Profile

**L** - Jackscrew-Low Profile

**F** - Float Mount

**B** - No hardware (Standard)  
.091 dia. hole for sizes 9-51  
.120 dia. hole for size 100

**A** - No hardware  
.125 dia. hole for sizes 9-51  
.166 dia. hole for size 100

**B1** - No hardware  
.1475 dia. hole for size 100  
(Per MIL-DTL-83513/5)

**S** - Clinch Nut

Hardware per  
MIL-DTL-83513/5  
Size 9-25:

**M2** - Jackscrew-low  
profile (Allen Head)

**M3** - Jackscrew-standard  
profile (Allen Head)

**M5** - Jackscrew-low  
profile (Slotted Head)

**M6** - Jackscrew-standard  
profile (Slotted Head)

**M7** - Jackpost

### SHELL FINISH/MOD CODES

**F300** - Stainless Steel Passivated Only

### High-Temp Wires | Callouts

M22759/87-26-9

Length	Yellow	White	10-Color Repeat	System 1
1	030	R30	T30	U30
2	024	R24	T24	U24
3	020	R20	T20	U20
4	-	R33	T33	U33
5	031	R31	T31	U31
6	019	R65	T19	072
8	026	R26	T26	U26
9	015	R15	T15	U15
10	029	R29	T29	U29
12	028	R66	T28	073
16	029	R39	T39	U39
17	036	R36	T36	U36
18	001	R67	T01	074
20	038	R38	T38	U38
21	055	R55	T55	U55
24	009	R68	T09	075
30	010	R10	T10	U10
35	018	R18	T18	U18
36	011	R69	T11	076
40	037	R37	T37	U37
42	012	R12	T12	U12
48	013	R70	T13	077
50	040	R40	T40	U40
60	014	R14	T14	U14
72	017	R71	T17	078
80	032	R32	T32	U32
92	022	R22	T22	U22
96	035	R35	T35	U35
120	042	R42	T42	U42
180	043	R43	T43	U43

## Why ITT

ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT's Cannon brand is a leading global manufacturer of connector products serving international customers in aerospace, defense, medical, industrial and transportation end markets. ITT's Connector business, which also includes the Veam and BIW Connector Systems brand, manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world.

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