cannon

High Temperature Micro-D Connectors

Datasheet



High Temperature Micro D-Subminiature Connectors









Down Hole Analyzer

Rocket Boosters

Aircraft Engines

With the increasing demand for compact, ruggedized interconnect solutions that can withstand temperatures up to 200°C, ITT's Cannon brand continues to lead the industry with high reliability products customized for applications from satellites to down hole analyzers.

Experience

With over 20 years of design and manufacturing experience with high temperature connectors, Cannon not only offers proven reliability but also a commitment to providing the best solution for your standard and custom design.





Features and Benefits

- Designed in accordance with the MIL-DTL-83513
- High performance
- High reliability
- Exceptional versatility
- Micro Socket- Free standing used in receptacle side
- Micro Twist Pin- Recessed into plug insulators
- Current rating: 3A
- Durability: 500 mating cycles
- Contacts: copper alloy; gold plated
- Low profile configurations available
- Operating temperature: -55°C to +200°C

Applications

Aerospace & Defense

- Space/Satellite
- Military Electronics
- Avionics
- Missile Systems
- Test Equipment

Commercial

- Data Acquisition
- Down Hole Drilling
- Instrumentation
- Industrial
- Test Equipment

Specifications

Configurations

- Terminations
 - Stranded wire
- Solid wire
- Solder pots
- PCB
 - Straight
 - Right angle
 - Condensed right angle
- Signal contacts: 9, 15, 21, 25, 31, 37, 51, 100

Electrical Wire Size

- Stranded wire:
 - 24 AWG thru 32 AWG
- Solid wire:
- 25 AWG
- Solder pots:
- 26 AWG or smaller
- PC tails:
 - 24 AWG

Material and Finishes

- Shell material
 - Aluminum alloy
- Shell plating
 - Electroless nickel
 - Yellow chromate / cadmium over nickel
- Insulator
 - Liquid crystal polymer per MIL-M-24519, type GLCP-30F

Hardware Configurations

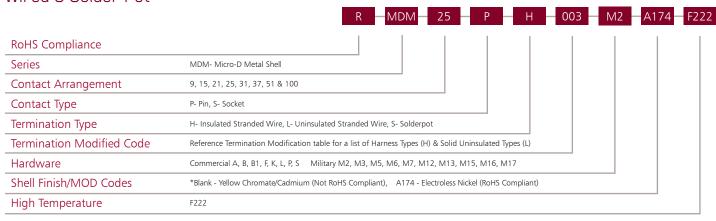
Commercial		Per MIL-DTL-83513	
Code	Description	Code	Description
А	No hardware (.125 dia. hole for sizes 9-51 &.166 dia. hole for		Size 9-51:
	size 100")	M2	Jackscrew-low profile (allen head)
В	No hardware (standard) (.091 dia. hole for size 9-51 & .120	M3	Jackscrew-standard profile (allen head)
	dia. hole for size 100)	M5	Jackscrew-low profile (slotted head)
B1	No hardware (.1475 dia. hole for size 100)	M6	Jackscrew-standard profile (slotted head)
F	Float mount	M7	Jackpost
K	Jackscrew-standard profile		Size 100:
L	Jackscrew-low profile	M12	Jackscrew-low profile (allen head)
P	Jackpost	M13	Jackscrew-standard profile (allen head)
S	Clinch Nut	M15	Jackscrew-low profile (slotted head)
	PCB Only	M16	Jackscrew-standard profile (slotted head)
R1	Rear Panel Mount Jackpost, .032" Panel	M17	Jackpost
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		

Termination Modification Codes

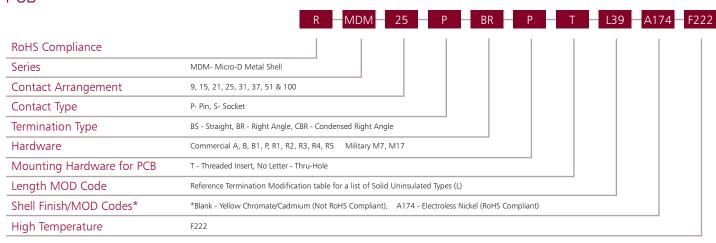
Stranded Teflon® Wire per MIL-W-16878/4 (H)			Solid Uninsulated Wi	Solid Uninsulated Wire (L)	
Length	All Yellow	Color Coded	Termination Code	Length	
3 (76.2)	H020	H027	L61	.125 (3.18)	
6 (152.4)	H019	H016	L56	.150 (3.81)	
8 (203.2)	H026	H034	L57	.190 (4.83)	
10 (254.0)	H029	H025	L39	.250 (6.35)	
12 (304.8)	H028	H002	L58	.375 (9.52)	
18 (457.2)	H001	H003	L1	.500 (12.70)	
20 (508.0)	H038	H023	L14	.750 (19.05)	
24 (609.6)	H009	H004	L2	1.000 (25.40)	
30 (762.0)	H010	H005	L7	1.500 (38.10)	
36 (914.4)	H011	H006	L6	2.000 (50.80)	
48 (1219.2)	H013	H048	L16	2.500 (63.50)	
72 (1828.8)	H017	H046	L10	3.000 (76.20)	
120 (3048.0)	H042	H041			

High Temperature Micro-D Part Number Configuration

Wired & Solder Pot



PCB



^{*}At temperatures above 175°C, yellow chromate over cadmium can cause shell discoloration and deterioration of the chromate conversion coating.