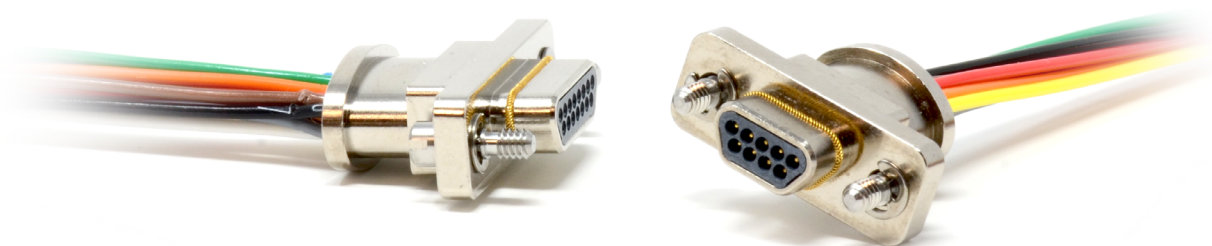




Space-saving, Microminiature Solutions with Integrated EMI Shielded Backshells



With advanced, open system digital cockpits, integrated avionics suites and communication systems, EMI shielding is critical to any connector design. In order to accommodate a more effective shielding performance, while reducing weight, components and improving space requirements, ITT Cannon expands its robust, wired / cabled Microminiature MDM series to include an EMI shielded, connector with fully integrated backshells.

The new design utilizes an EMI ground spring on the plug side connector as well as an integrated back shell for shield termination on the back end.

Features & Benefits

- Superior EMI protection with gold plated ground spring.
- Turnkey cable solution with customized wire lengths
- 9 - 51 contact positions
- Design to meet MIL-DTL-83513 requirements
- 0.050" center-to-center contact spacing
- Current rating: 3A
- 500 mating cycles
- Wire Gauge 24 - 38 (AWG)

Markets



MDME - Micro-D with Integrated Backshells

How to Order - MDM with Integrated Backshells

	RMDME10	-	25	P	0	P	-	I	6	P	G	A174
Series												
Contact Arrangements												
Contact Type												
Wire Gauge												
Wire Type												
Wire Color												
Wire Length												
Mounting Hardware (Shell Flange)												
EMI Ground Spring												
Shell Finish Modification Codes												

Series

- MDME10 - MDM with Integrated Backshells, wired assemblies
RMDME10 - RoHS Compliant**

Contact Arrangements

9, 15, 21, 25, 31, 37, 51

Contact Type

- S - Socket (Receptacle)
P - Pin (Plug)

Wire Gauge (AWG)

- 0 - #30 GAGE
4 - #24 GAGE
6 - #26 GAGE
8 - #38 GAGE

Wire Type

- P - Teflon (PTFE) Wire Per MIL-W-16878/4
T - Teflon Wire Per MIL-W-22759/11
E - Cross-Link Tefzel Wire Per MIL-W-22759/33

Wire Color

- 1 - White
2 - Yellow
5 - Color- Code Per MIL-STD 681
7 - 10 Color Repeat

Overall Wire Length (Inches)

One Inch Minimum and Must be Rounded to the Nearest Whole Inch

Standard Lengths (inches) - 6, 12, 18, 24, 36

Mounting Hardware (Shell Flange)

- MIL-DTL-83513/5 Hardware
M7 - Jackpost shell size 9-51
M5 - Jackscrew (slotted head) Low Profile shell size 9-51
M2 - Jackscrew (Allen head) Low Profile shell size 9-51

Commercial Hardware

- P - Jackpost *
L - Jackpost - Low Profile*
F - Float Mount*
B - No Hardware (standard) .091 dia. hole shell size 9-51

EMI Ground Spring Option (Pin Type Only)

- F - No Ground Spring
G - Ground Spring Installed

Shell Finish Modification Codes

- A101 - Yellow Chromate/Cadmium over Nickel
None - Electroless Nickel (RoHS Compliant) (Standard)
A172 - Gold Over Nickel (RoHS Compliant)
A141 - Iridite/Alodine
A30 - Black Anodize

(For special modification codes, consult customer service.)

*Factory Installed

**If RoHS is required, you must use the "RMDME10" suffix for the series, the termination tail will be gold plated; not tinned. RoHS requested parts must include A174 or A172 plating modifiers.



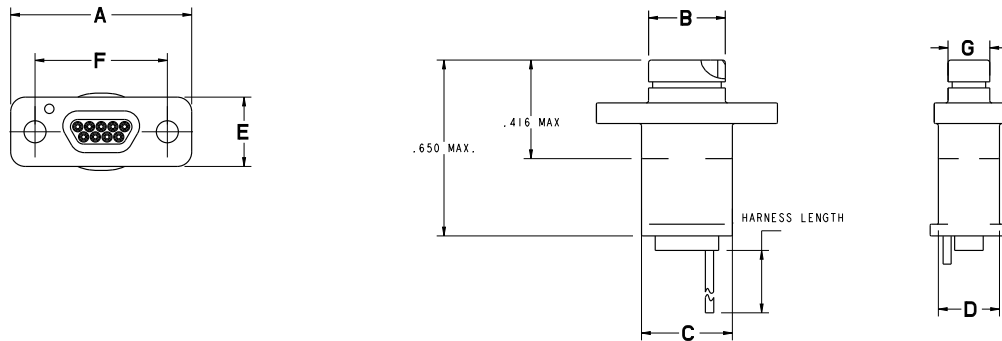
Dimensions shown in mm
Specifications and dimensions subject to change

www.ittcannon.com

Micro-D with Integrated Backshells

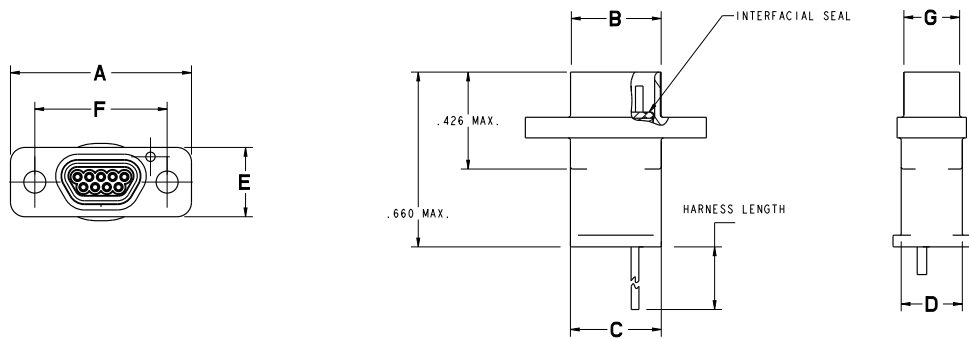
MDME

MDME10 Series Shell Size 9 - 51 Plug



Shell Size	A MAX	B MAX	C MAX	D MAX	E MAX	F ±.005	G MAX
9	.785	.334	.400	.270	.380	.565	.185
15	.935	.484	.550			.715	
21	1.085	.634	.700			.865	
25	1.185	.734	.800			.965	
31	1.335	.884	.950			1.115	
37	1.485	1.034	1.100	.310	.351	1.265	.228
51	1.435	.984	1.050			1.215	

MDME10 Series Shell Size 9 - 51 Receptacle



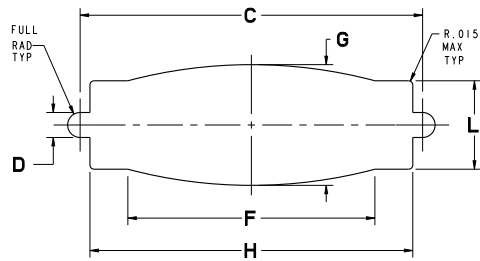
Shell Size	A MAX	B MAX	C MAX	D MAX	E MAX	F ±.005	G MAX
9	.785	.402	.400	.270	.380	.565	.253
15	.935	.552	.550			.715	
21	1.085	.702	.700			.865	
25	1.185	.802	.800			.965	
31	1.335	.952	.950			1.115	
37	1.485	1.102	1.100	.310	.351	1.265	.296
51	1.435	1.052	1.050			1.215	

Dimensions shown in mm
Specifications and dimensions subject to change

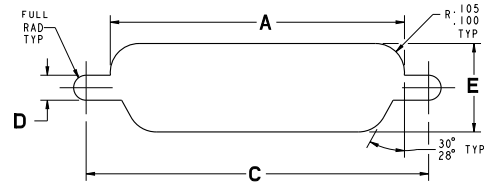
Micro-D with Integrated Backshells

MDME

Panel Cutout Dimensions



Front Mount



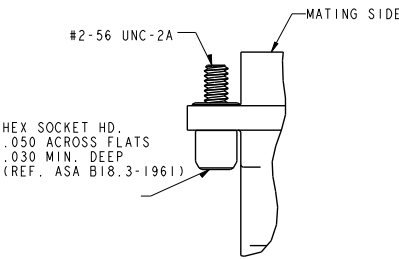
Rear Mount

Shell Size	A + .004 - .000	C + .005 - .000	D + .005 - .000	E + .004 - .000	F + .005 - .000	G + .004 - .000	H + .005 - .000	L + .004 - .000
9	.401	.570	.089	.252	.300	.400	.500	.271
15	.551	.720			.420		.650	
21	.701	.870			.550		.800	
25	.801	.970			.650		.900	
31	.951	1.120			.790		1.050	
37	1.101	1.270			.950		1.200	
51	1.051	1.220		.295	.800	.430	1.150	.315

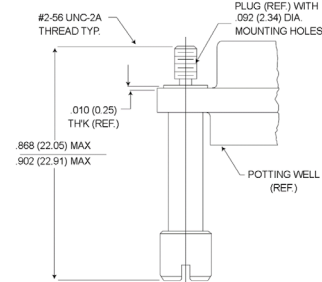
Mounting Hardware

If ordered connector without hardware or as replacement hardware. This hardware supplied in kits unassembled (2 pieces of each item).

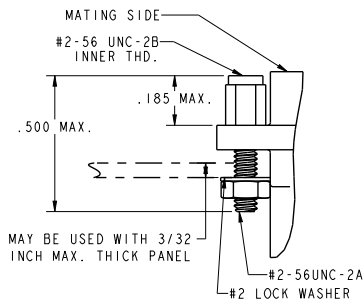
Low Profile Jackscrew



High Profile Jackscrew



Jackpost



Hardware Style	Description	ITT Part Number	MIL-Spec Part Number
Low Profile Jackscrew	Slotted Head Jackscrew	320-9508-025	M83513/5-05
Low Profile Jackscrew	Allen Head Jackscrew	320-9508-026	M83513/5-02
High Profile Jackscrew	Slotted Head Jackscrew	320-9508-027	M83513/5-06
High Profile Jackscrew	Allen Head Jackscrew	320-9508-028	M83513/5-03
Jackpost		320-9508-033	M83513/5-07

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