

Micro-D Metal Shell GMDE Environmentally Sealed Rear Panel Mount With O-Ring

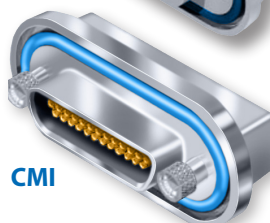


Protect Your Equipment with Ruggedized Micro-D Connectors

Tactical communications boxes must be sealed to prevent water ingress. Standard M83513 type Micro connectors can be difficult to seal to a bulkhead. The flange is too narrow for a gasket, and sealing with RTV can be time-consuming and messy. The Glenair GMDE connector with O-rings provide a better way to seal the connector.



RMI



CMI

RMI Style

Blind tapped mounting holes with stainless steel inserts accommodate either #4-40 or M3 mounting screws. Connectors are supplied with jackposts installed. Socket connectors feature integral jackposts.

CMI Style

Space-saving design uses rear panel mount jackposts to attach connectors to the panel.

Choose the Style That Meets Your Needs— **RMI** version features blind tapped mounting holes, allowing secure installation on panels. **CMI** version saves space by using rear panel jackposts to attach the connector.

Mates to Standard M83513 Connectors— GMDE connectors meet the requirements of MIL-DTL-83513 and feature TwistPin contacts for best performance.

Meets MIL-STD-810 Immersion— The nitrile O-ring and a special epoxy wire sealing process allow GMDE connectors to meet immersion requirements.

How To Order GMDE Connectors										
Sample Part Number	GMDE	2-	25	S-	RMI	-4	K	7-	18	SM
Series	GMDE Glenair Micro-D Environmental									
Shell Material and Finish	Aluminum Shell 1 - Cadmium 2 - Nickel Stainless Steel Shell 4 - Black Anodize 5 - Gold 3 - Passivated 6 - Chem Film 33 - Nickel-PTFE									
Contact Layout	9, 15, 21, 25, 31, 37, 51, 51-2, 67, 100 (See Table I)									
Contact Type	P - Pin S - Socket									
Flange Style	RMI - Blind Tapped Mounting CMI - Space Saving Rear Panel Mount with Jackposts									
Wire Gage (AWG)	4 - #24 6 - #26 8 - #28 0 - #30									
Wire Type	K - M22759/11 600 VRMS fluoropolymer (TFE) J - M22759/33 600 VRMS Modified Cross-Linked Tefzel® (ETFE) E - NEMA HP3-EB 600 VRMS Type E M16878/4 (TFE)									
Wire Color	1 - White 2 - Yellow 5 - Color Coded, Stripes Per MIL-STD-681 (Up to 51 colors) 7 - Ten Color Repeating									
Wire Length Inches	18 - Wire Length In Inches. "18" Specifies 18 Inches.									
Hardware	RMI Style Only SM - Furnished with Jackposts and M3 Mounting Holes SU - Furnished with Jackposts and #4-40 Mounting Holes CMI Style Only Jackposts for Rear Panel Mount T - .094 (2.4) V - .062 (1.6) W - .047 (1.2) X - .031 (0.8) Y - .023 (0.65)									

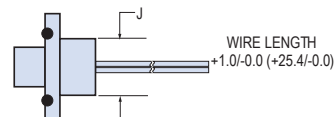
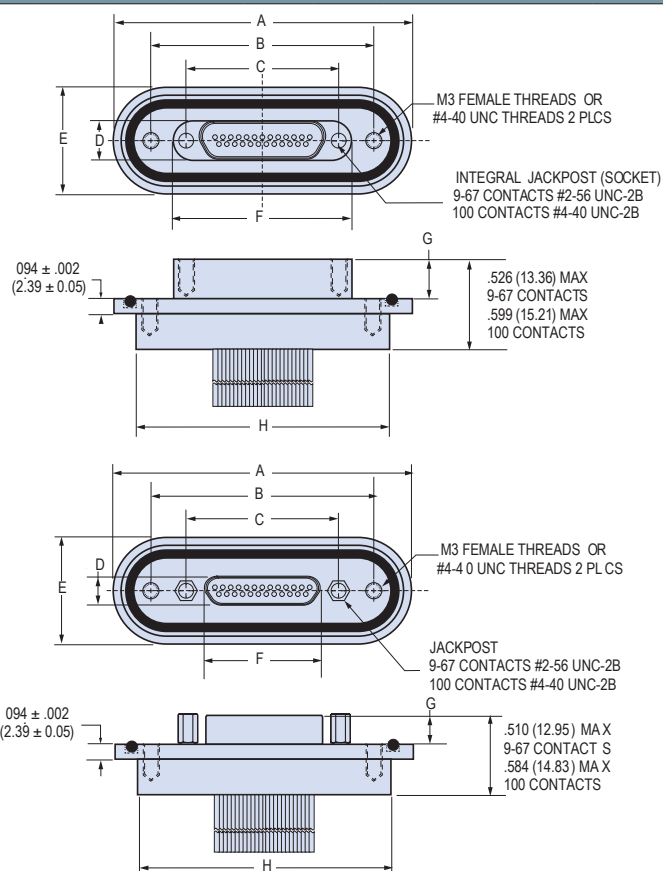
Notes:

1. Assembly to be identified with Glenair's name, part number, date code, and pin 1 identification as space permits
2. Performance data per MIL-DTL-83513
3. Interface dimensions per MIL-DTL-83513

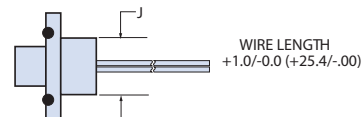


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Table I: RMI Dimensions



Socket RMI Style Connector



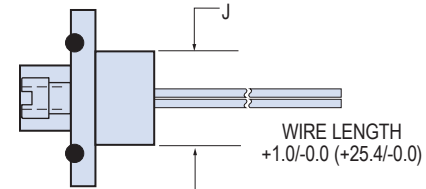
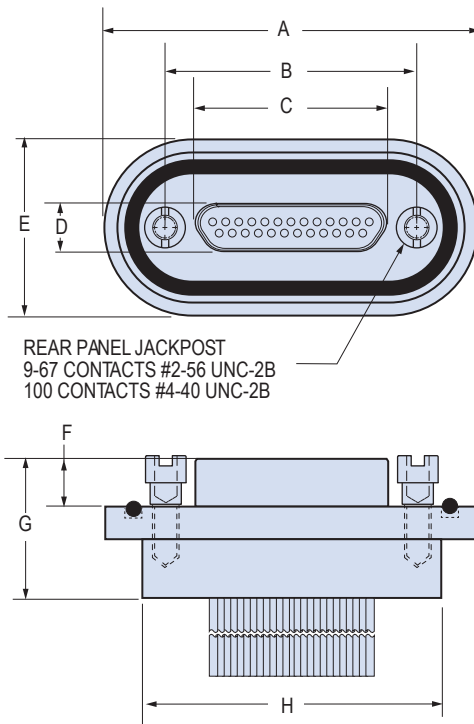
Pin RMI Style Connector

Layout	A Max.		B		C		D Max.		E Max.		F Max.		G		H Max.		J Max.	
	In.	mm.	In. ± .003	mm. ± 0.08	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.
9P	1.488	37.79	1.011	25.69	.565	14.35	.184	4.67	.675	17.13	.333	8.46	.183	4.65	1.193	30.29	.358	9.10
9S	1.488	37.79	1.011	25.69	.565	14.35	.250	6.35	.675	17.13	.728	18.48	.195	4.95	1.193	30.29	.358	9.10
15P	1.638	41.60	1.161	29.50	.715	18.16	.184	4.67	.675	17.13	.483	12.27	.183	4.65	1.343	34.10	.358	9.10
15S	1.638	41.60	1.161	29.50	.715	18.16	.250	6.35	.675	17.13	.878	22.29	.195	4.95	1.343	34.10	.358	9.10
21P	1.788	45.41	1.311	33.31	.865	21.97	.184	4.67	.675	17.13	.633	16.08	.183	4.65	1.532	38.91	.358	9.10
21S	1.788	45.41	1.311	33.31	.865	21.97	.250	6.35	.675	17.13	1.028	26.10	.195	4.95	1.532	38.91	.358	9.10
25P	1.888	47.95	1.411	35.85	.965	24.51	.184	4.67	.675	17.13	.733	18.62	.183	4.65	1.593	40.45	.358	9.10
25S	1.888	47.95	1.411	35.85	.965	24.51	.250	6.35	.675	17.13	1.128	28.64	.195	4.95	1.593	40.45	.358	9.10
31P	2.038	51.76	1.561	39.66	1.115	28.32	.184	4.67	.675	17.13	.883	22.43	.183	4.65	1.743	44.26	.358	9.10
31S	2.038	51.76	1.561	39.66	1.115	28.32	.250	6.35	.675	17.13	1.278	32.45	.195	4.95	1.743	44.26	.358	9.10
37P	2.188	55.57	1.711	43.47	1.265	32.13	.184	4.67	.675	17.13	1.033	26.24	.183	4.65	1.893	48.07	.358	9.10
37S	2.188	55.57	1.711	43.47	1.265	32.13	.250	6.35	.675	17.13	1.428	36.26	.195	4.95	1.893	48.07	.358	9.10
51P	2.138	54.30	1.661	42.40	1.215	30.86	.224	5.69	.714	18.13	.983	24.97	.183	4.65	1.843	46.80	.358	9.10
51S	2.138	54.30	1.661	42.40	1.215	30.86	.293	7.44	.714	18.13	1.378	34.99	.195	4.95	1.843	46.80	.358	9.10
51-2P	2.538	64.46	2.061	52.36	1.615	41.02	.184	4.67	.675	17.13	1.384	35.15	.183	4.65	2.243	56.96	.358	9.10
51-2S	2.538	64.46	2.061	52.36	1.615	41.02	.250	6.35	.675	17.13	1.778	45.15	.195	4.95	2.243	56.96	.358	9.10
67P	2.938	74.62	2.461	62.52	2.015	51.18	.184	5.69	.675	17.13	1.783	45.28	.183	4.65	2.643	67.12	.358	9.10
67S	2.938	74.62	2.461	62.52	2.015	51.18	.250	7.44	.675	17.13	2.178	55.31	.195	4.95	2.643	67.12	.358	9.10
100P	2.820	71.62	2.312	58.72	1.800	45.72	.270	6.86	.875	22.13	1.383	35.13	.183	4.65	2.493	63.32	.555	14.10
100S	2.820	71.62	2.312	58.72	1.800	45.72	.333	8.46	.875	22.13	2.002	50.85	.195	4.95	2.493	63.32	.555	14.10

Micro-D Metal Shell GMDE Environmentally Sealed Rear Panel Mount With O-Ring



Table II: CMI Dimensions



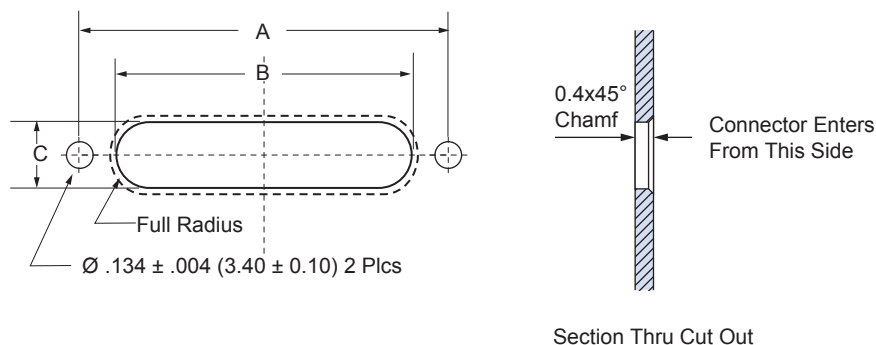
B

Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H Max.		J Max.	
	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± 0.08	In.	mm.	In.	mm.	In.	mm.
9P	1.024	26.0	0.565	14.35	0.333	8.46	0.184	4.67	0.674	17.13	0.183	4.65	0.549	13.95	0.832	21.13	0.359	9.13
9S	1.024	26.0	0.565	14.35	0.400	10.16	0.250	6.35	0.674	17.13	0.195	4.95	0.563	14.3	0.832	21.13	0.359	9.13
15P	1.173	29.8	0.715	18.16	0.483	12.27	0.184	4.67	0.674	17.13	0.183	4.65	0.549	13.95	0.989	25.13	0.359	9.13
15S	1.173	29.8	0.715	18.16	0.551	14	0.250	6.35	0.674	17.13	0.195	4.95	0.563	14.3	0.989	25.13	0.359	9.13
21P	1.323	33.6	0.865	21.97	0.633	16.08	0.184	4.67	0.674	17.13	0.183	4.65	0.549	13.95	1.127	28.63	0.359	9.13
21S	1.323	33.6	0.865	21.97	0.701	17.81	0.250	6.35	0.674	17.13	0.195	4.95	0.563	14.3	1.127	28.63	0.359	9.13
25P	1.429	36.3	0.965	24.51	0.733	18.62	0.184	4.67	0.674	17.13	0.183	4.65	0.549	13.95	1.226	31.13	0.359	9.13
25S	1.429	36.3	0.965	24.51	0.801	20.35	0.250	6.35	0.674	17.13	0.195	4.95	0.563	14.3	1.226	31.13	0.359	9.13
31P	1.575	40.0	1.115	28.32	0.883	22.43	0.184	4.67	0.674	17.13	0.183	4.65	0.549	13.95	1.383	35.13	0.359	9.13
31S	1.575	40.0	1.115	28.32	0.951	24.16	0.250	6.35	0.674	17.13	0.195	4.95	0.563	14.3	1.383	35.13	0.359	9.13
37P	1.724	43.8	1.265	32.13	1.033	26.24	0.184	4.67	0.674	17.13	0.183	4.65	0.549	13.95	1.541	39.13	0.359	9.13
37S	1.724	43.8	1.265	32.13	1.101	27.96	0.250	6.35	0.674	17.13	0.195	4.95	0.563	14.3	1.541	39.13	0.359	9.13
51P	1.673	42.5	1.215	30.86	0.983	24.97	0.224	5.69	0.714	18.13	0.183	4.65	0.549	13.95	1.481	37.63	0.399	10.13
51S	1.673	42.5	1.215	30.86	1.051	26.7	0.293	7.44	0.714	18.13	0.195	4.95	0.563	14.3	1.481	37.63	0.399	10.13
51-2P	2.072	52.63	1.615	41.02	1.384	35.15	0.184	4.67	0.674	17.13	0.183	4.65	0.549	13.95	1.875	47.63	0.359	9.13
51-2S	2.071	52.6	1.615	41.02	1.450	36.83	0.250	6.35	0.674	17.13	0.195	4.95	0.563	14.3	1.875	47.63	0.359	9.13
67P	2.465	62.6	2.015	51.18	1.784	45.31	0.184	4.67	0.674	17.13	0.183	4.65	0.549	13.95	2.290	58.16	0.359	9.13
67S	2.465	62.6	2.015	51.18	1.850	46.99	0.250	6.35	0.674	17.13	0.195	4.95	0.563	14.3	2.290	58.16	0.359	9.13
100P	2.366	60.1	1.800	45.72	1.383	35.13	0.270	6.86	0.871	22.13	0.183	4.65	0.584	14.83	2.131	54.13	0.556	14.13
100S	2.366	60.1	1.800	45.72	1.451	36.86	0.333	8.46	0.871	22.13	0.195	4.95	0.599	15.21	2.131	54.13	0.556	14.13

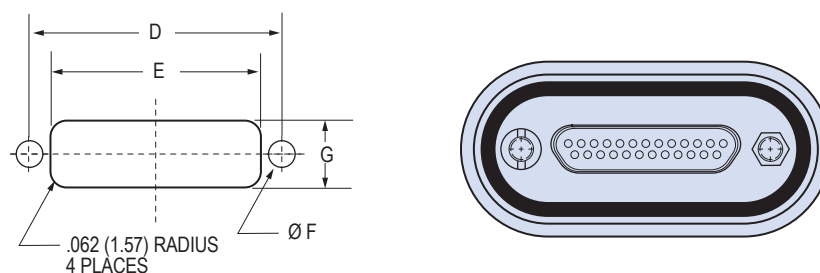
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Table III: GMDE Panel Cutout Dimensions

RMI Version



CMI Version



Layout	A		B		C		D		E		F		G	
	In. ± .003	mm. ± 0.08	In. ± .005	mm. ± 0.13	In. + .005/-0	mm. + 0.13/-0	In. ± .005	mm. ± 0.13	In. ± .005	mm. ± 0.13	In. ± .002	mm. ± 0.05	In. ± .005	mm. ± 0.13
9	1.011	25.69	.731	18.56	.252	6.40	.565	14.35	.406	10.31	.126	3.20	.256	6.50
15	1.161	29.50	.881	22.37	.252	6.40	.715	18.16	.556	14.12	.126	3.20	.256	6.50
21	1.311	33.31	1.031	26.18	.252	6.40	.865	21.97	.706	17.93	.126	3.20	.256	6.50
25	1.411	35.85	1.131	28.72	.252	6.40	.965	24.51	.806	20.47	.126	3.20	.256	6.50
31	1.561	39.66	1.281	32.53	.252	6.40	1.115	28.32	.956	24.28	.126	3.20	.256	6.50
37	1.711	43.47	1.431	36.34	.252	6.40	1.265	32.13	1.106	28.09	.126	3.20	.256	6.50
51	1.661	42.20	1.381	35.07	.295	7.50	1.215	30.86	1.056	26.82	.126	3.20	.300	7.62
51-2	2.061	52.36	1.781	45.23	.252	6.40	1.615	41.02	1.456	36.98	.126	3.20	.256	6.50
67	2.461	62.52	2.181	55.39	.252	6.40	2.015	51.18	1.856	47.14	.126	3.20	.256	6.50
100	2.312	58.72	2.005	50.93	.333	8.47	1.800	45.72	1.520	38.61	.148	3.76	.406	10.31