

"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



GVLMS-BS, Board Mount Straight, Ground Isolated Connectors

MICRO-D VERSALINK CONNECTORS



MATERIALS AND FINISHES

- Connector shell: aluminum alloy 6061
- Insulator (v): rigid dielectric
- Insulator (m): liquid crystal polymer (LCP) or polyphenylene sulfide (PPS)
- Flange seal: fluorosilicone rubber, blue
- Pin contact: copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating
- Ground spring: stainless steel, gold plating
- Ground pin: copper alloy, gold plating
- Hardware: 300 series stainless steel, passivated
- Encapsulant: epoxy resin Hysol EE4215

PERFORMANCE SPECIFICATIONS

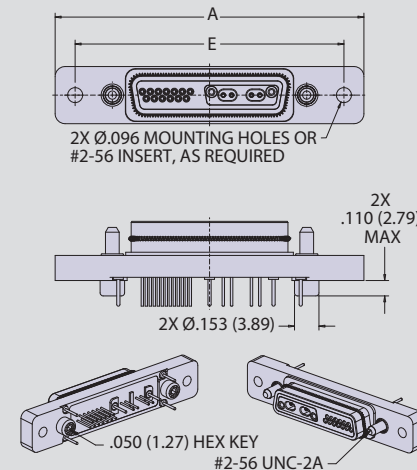
- Current rating: 3 amp (Micro-D contacts)
- DWV: 600 VAC sea level
- Insulation resistance: 5000 megohms minimum
- Operating temperature: -55° C to +150° C
- Mating force (contact m): (10 ounces) x (# of contacts)
- Mating force (contact v): (5 ounces) x (# of contacts)
- Electrical performance IAW Glenair specification GT-19-230
- Reference application notes AN0005 for optimal performance

NOTES

- Refer to GHS4-MS-1000 for insert arrangement details on page 94.
- Refer to GVLM-1004 for GVLMS-BS for wire diagrams on page 152.
- Connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
- Refer to GVLM-1005 for panel cutout details on page 95.
- Connectors are solder-dipped in 60/40 tin-lead solder.
- GVLMS-BS connectors only mate with GHS4-MS and other ground isolated VersaLink Micro-D connectors.

PART NUMBER DEVELOPMENT								
Sample Part Number	GVLMS	2	L-	2-13	P	BS	PN	-.110
Series	GVLMS = Ground Isolated, Board Mount VersaLink							
Shell Finish	2 = Nickel 5 = Gold							
Insulator Material	L = LCP or PPS							
Contact Layout (V-M) ¹	2-0, 2-13, 4-0, 4-25, 8-0							
Connector Type ³	P = Plug S = Receptacle							
Termination Type	BS = Board Straight							
Hardware ⁴	N = Thru Hole, No Hardware Installed PN = Extended Jackpost with Hex Nut and Lockwasher							
	Rear Panel Jackposts: R1 = .032 panel R2 = .047 panel R3 = .062 panel R4 = .093 panel R5 = .125 panel R6 = .080 panel							
	L = Hex Head Jackscrew (Non-Removable) with Threaded Insert LU = Hex Head Jackscrew (Non-Removable) with Thru Hole							
PC Tail Length ⁵	.080, .110, .140 (Length in Inches +.020/-0.000)							

GVLMS-BS L/LU HARDWARE

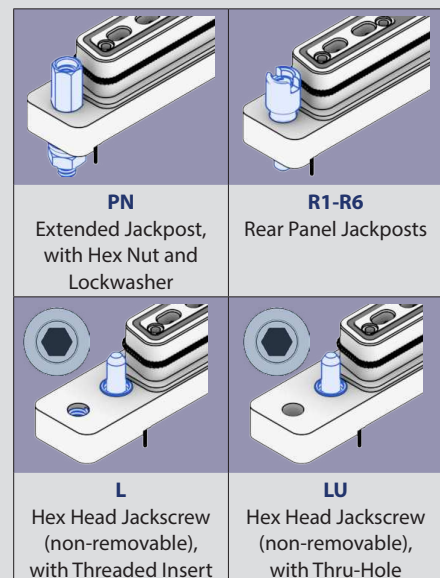


Layout	A Max	E
2-0	1.538 (39.07)	1.282 (32.56)
2-13	1.936 (49.17)	1.680 (42.67)
4-0	1.936 (49.17)	1.680 (42.67)
4-25	2.800 (71.12)	2.559 (65.00)
8-0	2.800 (71.12)	2.559 (65.00)

INSERT ARRANGEMENTS

Insert Arrangements	No. of Contacts	
	VersaLink (V)	TwistPin (M)
2-0	2	0
2-13	2	13
4-0	4	0
4-25	4	25
8-0	8	0

MOUNTING HARDWARE

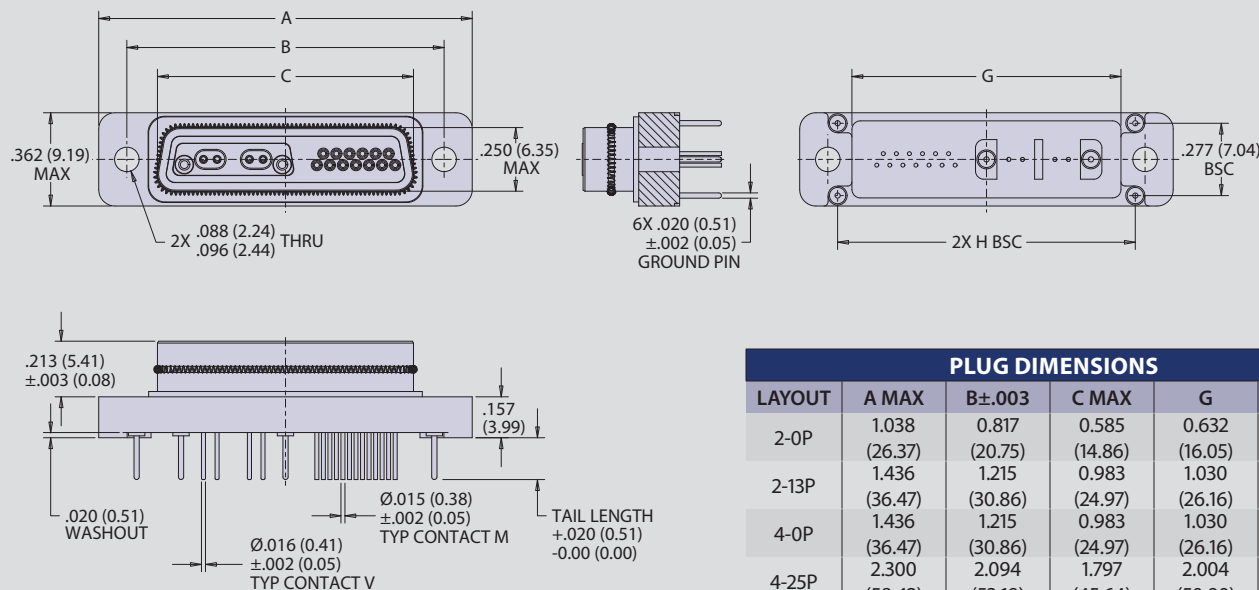


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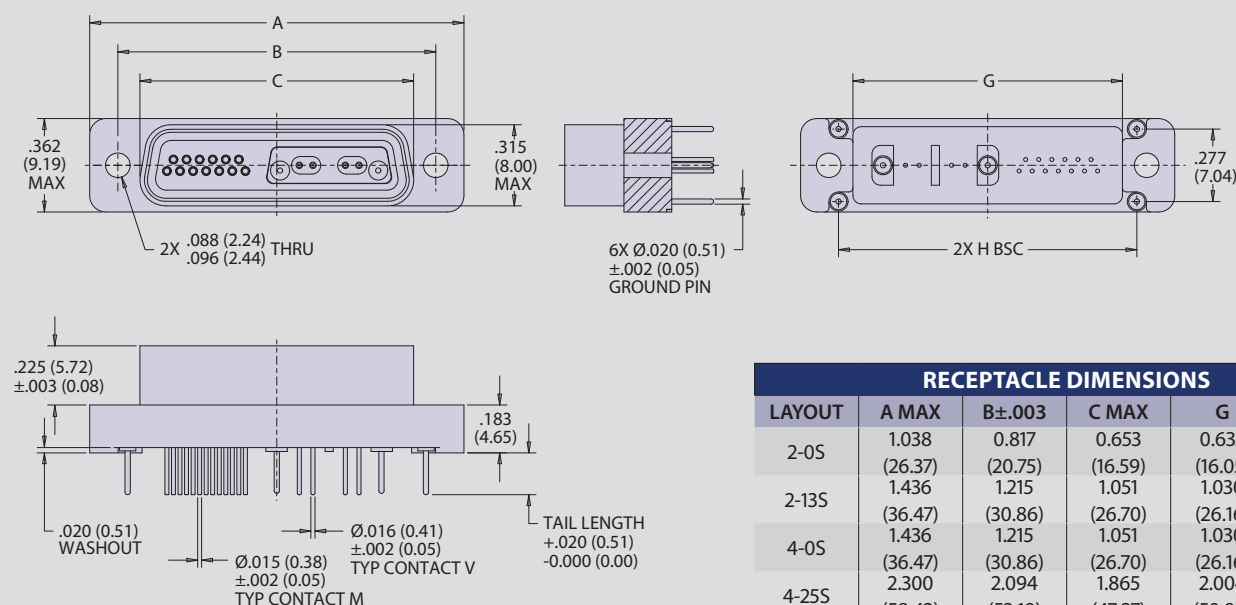
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GVLMS-BS STRAIGHT PLUG CONNECTOR



PLUG DIMENSIONS					
LAYOUT	A MAX	B±.003	C MAX	G	H BSC
2-0P	1.038 (26.37)	0.817 (20.75)	0.585 (14.86)	0.632 (16.05)	0.742 (18.85)
2-13P	1.436 (36.47)	1.215 (30.86)	0.983 (24.97)	1.030 (26.16)	1.140 (28.96)
4-0P	1.436 (36.47)	1.215 (30.86)	0.983 (24.97)	1.030 (26.16)	1.140 (28.96)
4-25P	2.300 (58.42)	2.094 (53.19)	1.797 (45.64)	2.004 (50.90)	2.019 (51.28)
8-0P	2.300 (58.42)	2.094 (53.19)	1.797 (45.64)	2.004 (50.90)	2.019 (51.28)

GVLMS-BS STRAIGHT RECEPTACLE CONNECTOR



RECEPTACLE DIMENSIONS					
LAYOUT	A MAX	B±.003	C MAX	G	H BSC
2-0S	1.038 (26.37)	0.817 (20.75)	0.653 (16.59)	0.632 (16.05)	0.742 (18.85)
2-13S	1.436 (36.47)	1.215 (30.86)	1.051 (26.70)	1.030 (26.16)	1.140 (28.96)
4-0S	1.436 (36.47)	1.215 (30.86)	1.051 (26.70)	1.030 (26.16)	1.140 (28.96)
4-25S	2.300 (58.42)	2.094 (53.19)	1.865 (47.37)	2.004 (50.90)	2.019 (51.28)
8-0S	2.300 (58.42)	2.094 (53.19)	1.865 (47.37)	2.004 (50.90)	2.019 (51.28)