

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



GVLM-BS, Straight PCB Connector

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
- Interface dimensions IAW MIL-DTL-83513
- Reference application notes AN0005 for optimal performance

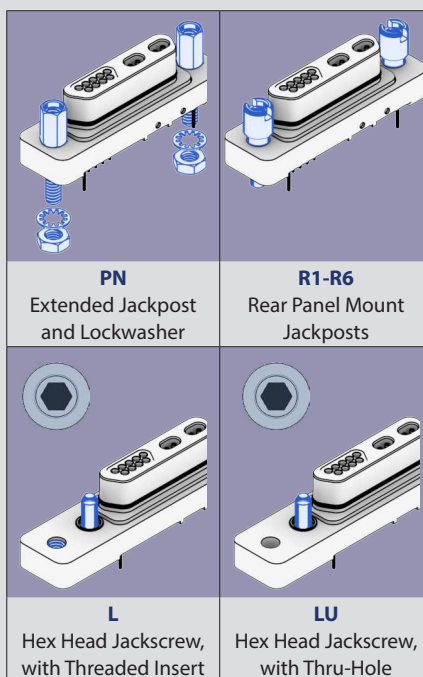
NOTES

- Refer to GHS4-M-1000 for insert arrangement details on page 94.
- Refer to GVLM-1000 for GVLM-BS PCB footprints on page 106.
- Refer to GVLM-1005 details on page 95.
- Recommended mating dimensions must be maintained when no hardware is used, see page 95.
- Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
- PC tails are solder-dipped in 60/40 tin-lead solder.
- Refer to 500-154 for protective cover on page 164.



PART NUMBER DEVELOPMENT								
Sample Part Number	GVLM	2	L-	2-9	P	BS	PN	-.110
Series	GVLM = VersaLink Micro-D							
Shell Finish	2 = Nickel 5 = Gold							
Insulator Material	L = LCP or PPS							
Contact Layout (V-M) ¹	1-0, 1-9, 2-0, 2-9, 2-15, 2-21, 3-9, 4-0, 4-15, 4-31, 8-9, 10-0							
Connector Type ⁵	P = Plug S = Receptacle							
Connector Style	BS = Board Straight							
Hardware ⁴ (see mounting hardware table)	N = Thru hole, no hardware installed PN = Extended jackpost with hex nut and lockwasher							
	Rear panel mount jackposts (Length in Inches):							
	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 ⁶	-.080, -.110, -.140 (Length in Inches +.020/-.000)							

HARDWARE



INSERT ARRANGEMENTS

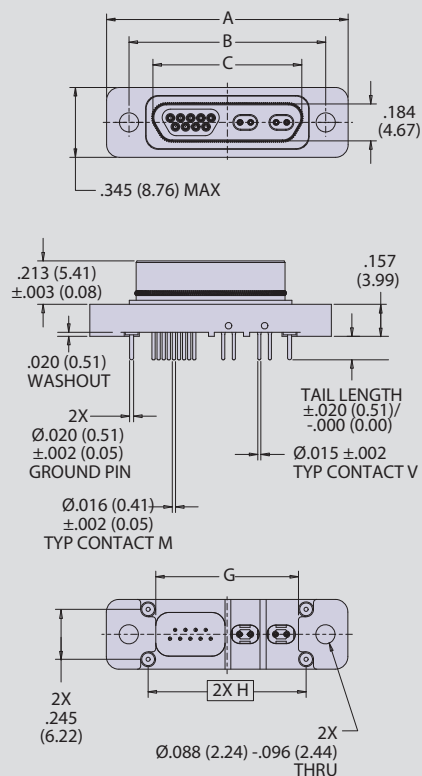
Insert Arrangements	No. of Contacts	
	VersaLink (V)	TwistPin (M)
1-0	1	0
2-0	2	0
1-9	1	9
2-9	2	9
4-0	4	0
2-15	2	15
2-21	2	21
3-9	3	9
4-15	4	15
4-31	4	31
8-9	8	9
10-0	10	0

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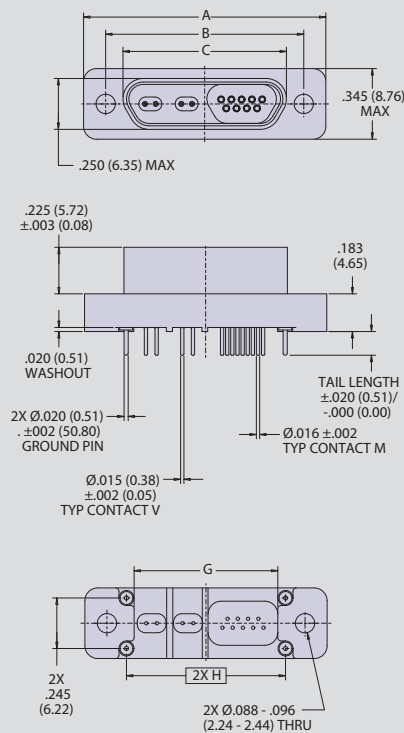


GVLM-BS, Straight PCB Connector

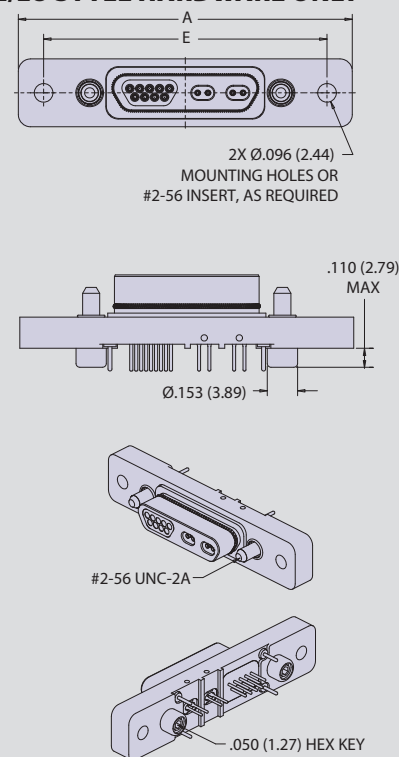
GVLM-BS PLUG



GVLM-BS RECEPTACLE



CONNECTOR DIMENSIONS WITH L/LU STYLE HARDWARE ONLY



PLUG DIMENSIONS					
LAYOUT	A MAX	B	C MAX	G	H BSC
1-0P	0.785 (19.94)	0.565 (14.35)	0.333 (8.46)	0.300 (7.62)	0.375 (9.53)
2-0P	0.935 (23.75)	0.715 (18.16)	0.483 (12.27)	0.450 (11.43)	0.525 (13.34)
1-9P	1.085 (27.56)	0.865 (21.97)	0.633 (16.08)	0.600 (15.24)	0.675 (17.15)
2-9P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.700 (17.78)	0.775 (19.69)
4-0P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.700 (17.78)	0.775 (19.69)
2-15P	1.335 (33.91)	1.115 (28.32)	0.833 (21.16)	0.850 (21.59)	0.925 (23.50)
2-21P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	1.000 (25.40)	1.075 (27.31)
3-9P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	1.000 (25.40)	1.075 (27.31)
4-15P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	1.350 (34.29)	1.425 (36.20)
4-31P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	1.750 (44.45)	1.825 (46.36)
8-9P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	1.750 (44.45)	1.825 (46.36)
10-0P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	1.750 (44.45)	1.825 (46.36)

RECEPTACLE DIMENSIONS					
LAYOUT	A MAX	B	C MAX	G	H BSC
1-0S	0.785 (19.94)	0.565 (14.35)	0.400 (10.16)	0.300 (7.62)	0.375 (9.53)
2-0S	0.935 (23.75)	0.715 (18.16)	0.551 (14.00)	0.450 (11.43)	0.525 (13.34)
1-9S	1.085 (27.56)	0.865 (21.97)	0.701 (17.81)	0.600 (15.24)	0.675 (17.15)
2-9S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.700 (17.78)	0.775 (19.69)
4-0S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.700 (17.78)	0.775 (19.69)
2-15S	1.335 (33.91)	1.115 (28.32)	0.951 (24.16)	0.850 (21.59)	0.925 (23.50)
2-21S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	1.000 (25.40)	1.075 (27.31)
3-9S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	1.000 (25.40)	1.075 (27.31)
4-15S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	1.350 (34.29)	1.425 (36.20)
4-31S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	1.750 (44.45)	1.825 (46.36)
8-9S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	1.750 (44.45)	1.825 (46.36)
10-0S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	1.750 (44.45)	1.825 (46.36)

L/LU DIMENSIONS		
Layout	A MAX	E ±.005
1-0	1.285 (32.64)	1.030 (26.16)
2-0	1.435 (36.45)	1.180 (29.97)
1-9	1.585 (40.26)	1.330 (33.78)
2-9	1.685 (42.80)	1.430 (36.32)
4-0	1.685 (42.80)	1.430 (36.32)
2-15	1.835 (46.61)	1.580 (40.13)
2-21	1.985 (50.42)	1.730 (43.94)
3-9	1.985 (50.42)	1.730 (43.94)
4-15	2.335 (59.31)	2.080 (52.83)
4-31	2.735 (69.47)	2.480 (62.99)
8-9	2.735 (69.47)	2.480 (62.99)
10-0	2.735 (69.47)	2.480 (62.99)