

"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

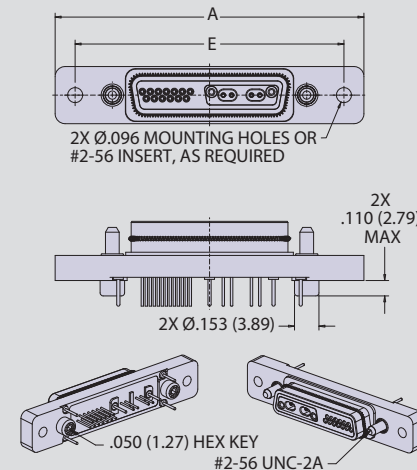
- Current rating: 3 amp (Micro-D contacts)
- DWV: 600 VAC sea level
- Insulation resistance: 5000 megohms minimum
- Operating temperature: -55° C to +150° C
- Mating force (contact m): (10 ounces) x (# of contacts)
- Mating force (contact v): (5 ounces) x (# of contacts)
- Electrical performance IAW 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/-.000)							

GVLMS-BS L/LU HARDWARE

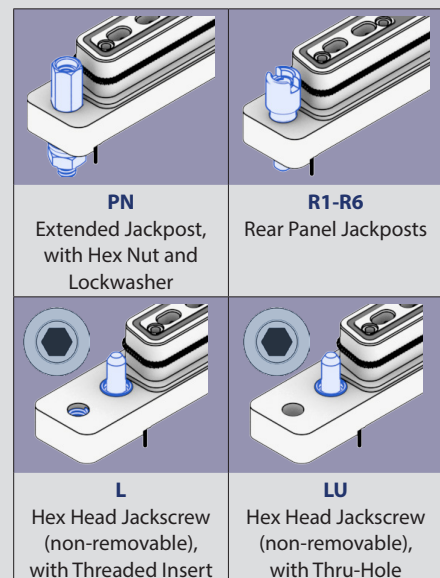


Layout	A Max	E
2-0	1.538 (39.07)	1.282 (32.56)
2-13	1.936 (49.17)	1.680 (42.67)
4-0	1.936 (49.17)	1.680 (42.67)
4-25	2.800 (71.12)	2.559 (65.00)
8-0	2.800 (71.12)	2.559 (65.00)

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

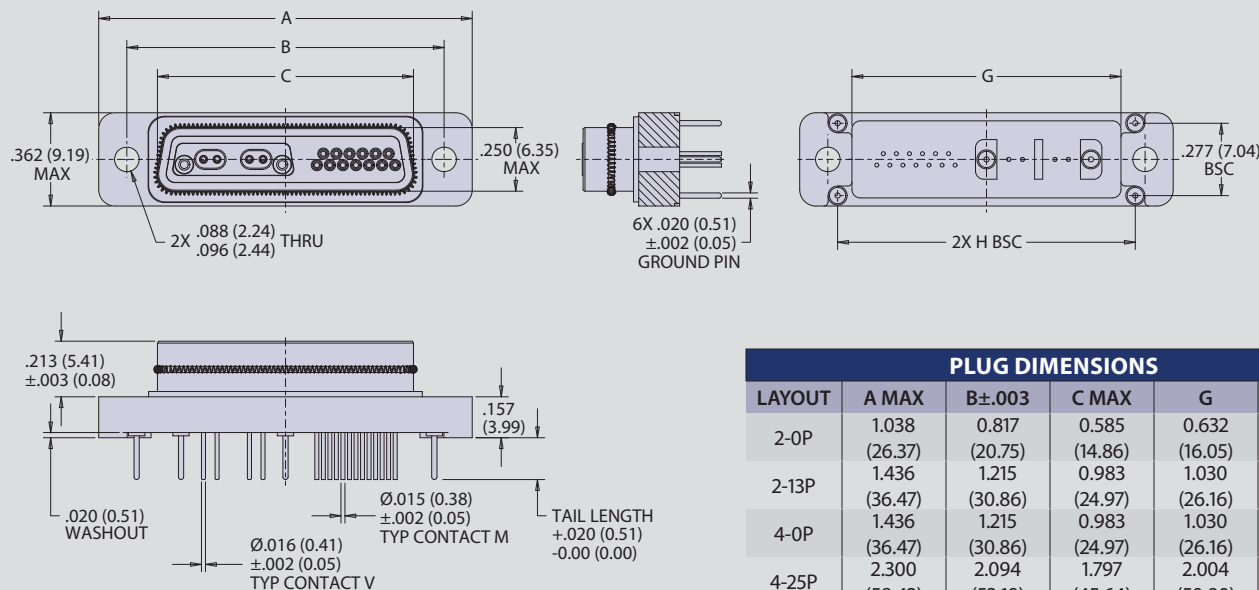


"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



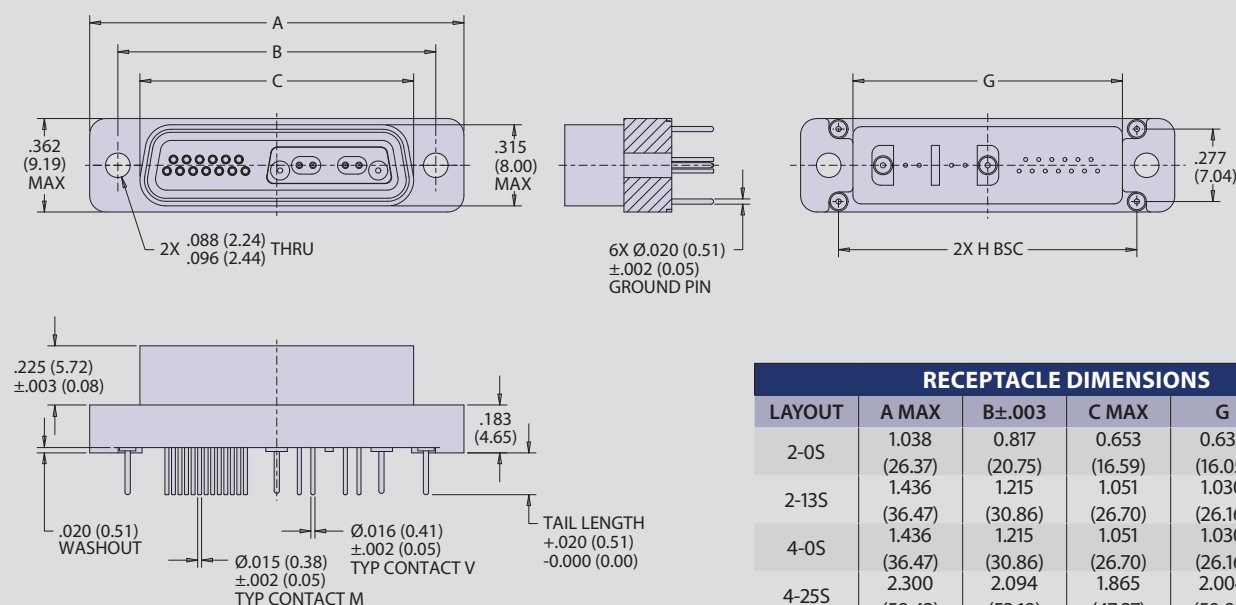
GVLMS-BS, Board Mount Straight, Ground Isolated Connectors

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

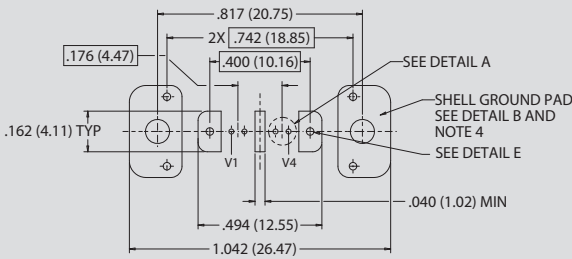


RECEPTACLE DIMENSIONS					
LAYOUT	A MAX	B±.003	C MAX	G	H BSC
2-0S	1.038 (26.37)	0.817 (20.75)	0.653 (16.59)	0.632 (16.05)	0.742 (18.85)
2-13S	1.436 (36.47)	1.215 (30.86)	1.051 (26.70)	1.030 (26.16)	1.140 (28.96)
4-0S	1.436 (36.47)	1.215 (30.86)	1.051 (26.70)	1.030 (26.16)	1.140 (28.96)
4-25S	2.300 (58.42)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

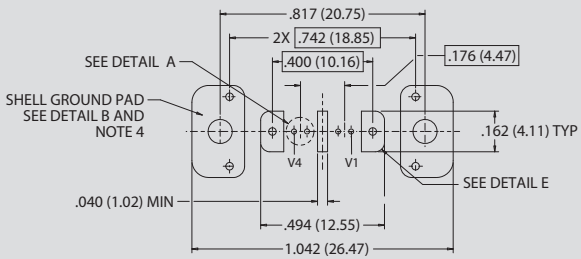
"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



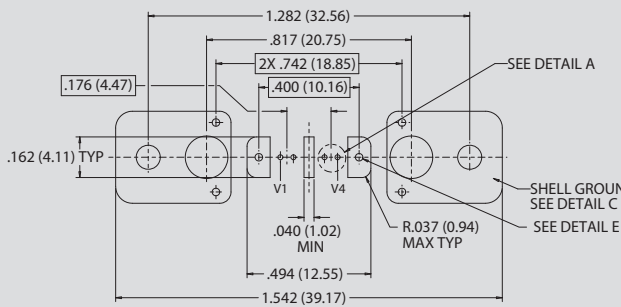
GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints



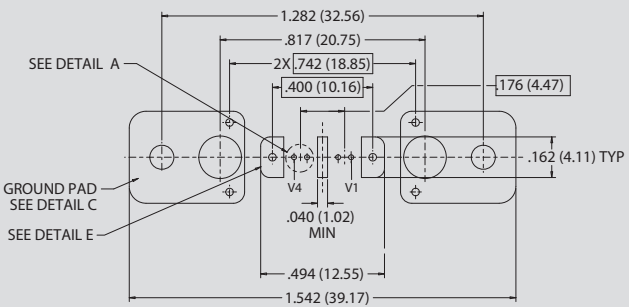
**Plug Layout 2-0
PN and R1-R6 Hardware**



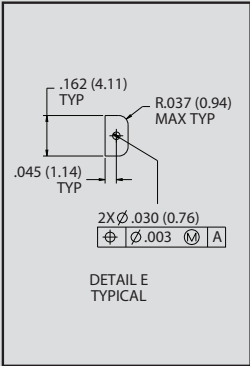
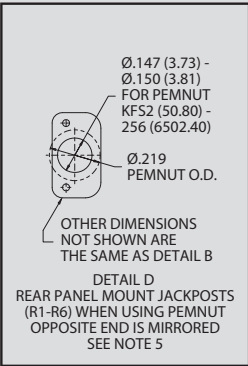
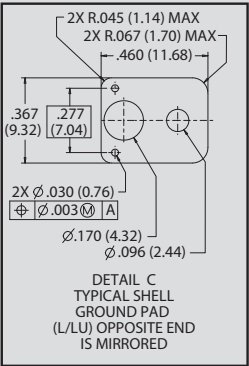
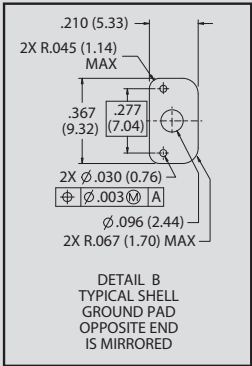
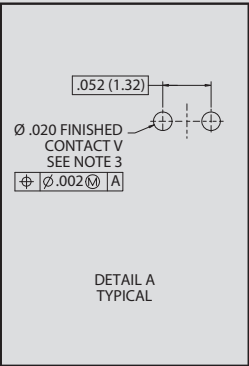
**Receptacle Layout 2-0
PN and R1-R6 Hardware**



**Plug Layout 2-0
L/LU Hardware**



**Receptacle Layout 2-0
L/LU Hardware**



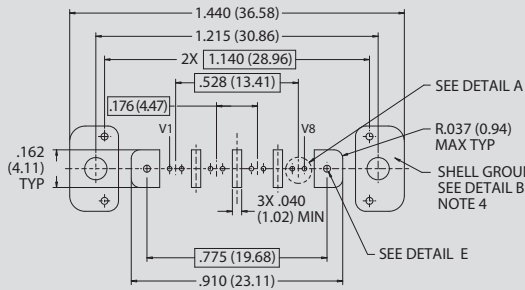
NOTES

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2. Reference GVLMS-BS for connector details.
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4. PEM nuts are the recommended solution for rear mount hardware, see detail "D". When using loose nuts to secure to panel, use the same shell ground pad as shown in detail "B".

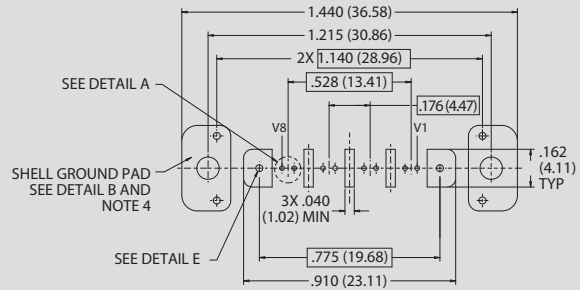
"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



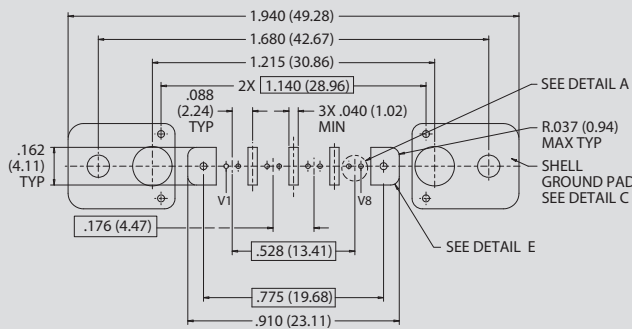
GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints



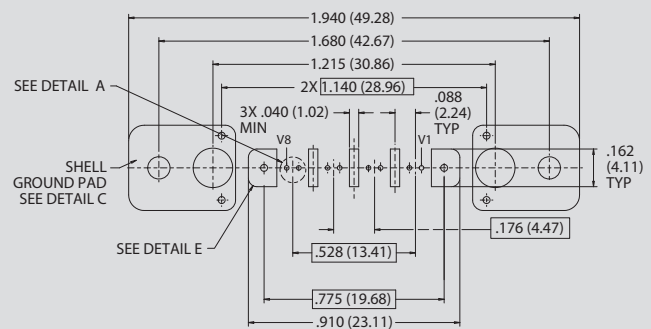
**Plug Layout 4-0
PN and R1-R6 Hardware**



**Receptacle Layout 4-0
PN and R1-R6 Hardware**

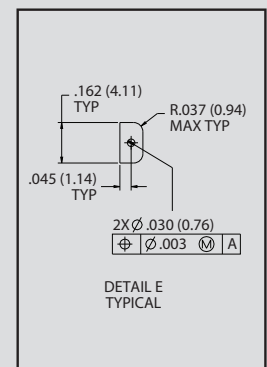
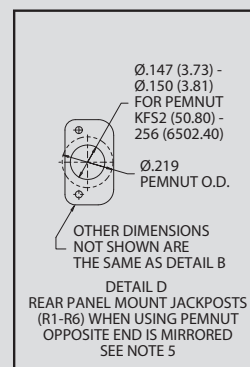
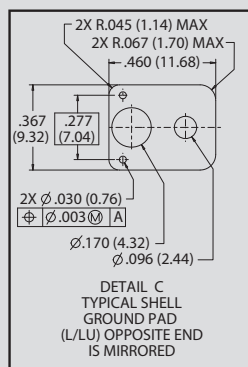
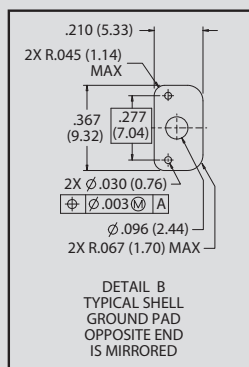
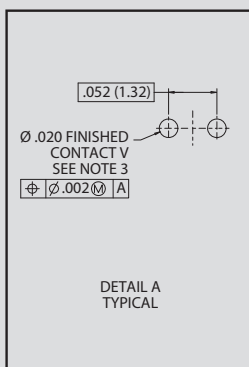


**Plug Layout 4-0
L/LU Hardware**



**Receptacle Layout 4-0
L/LU Hardware**

MICRO-D VERSALINK CONNECTORS



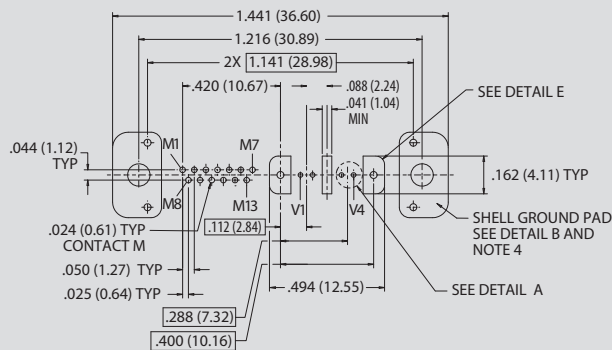
NOTES

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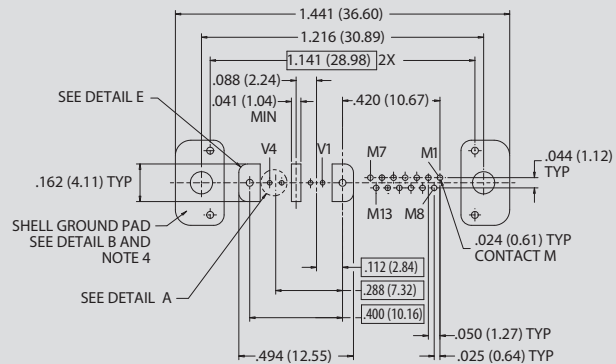
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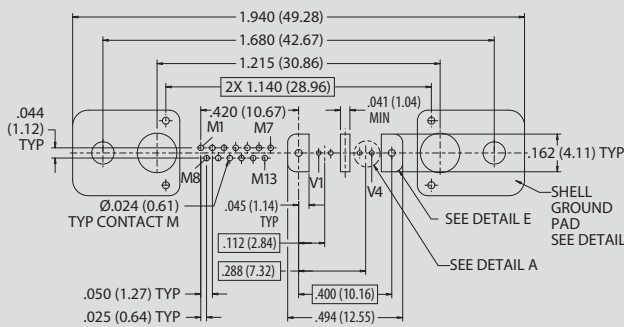
GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints



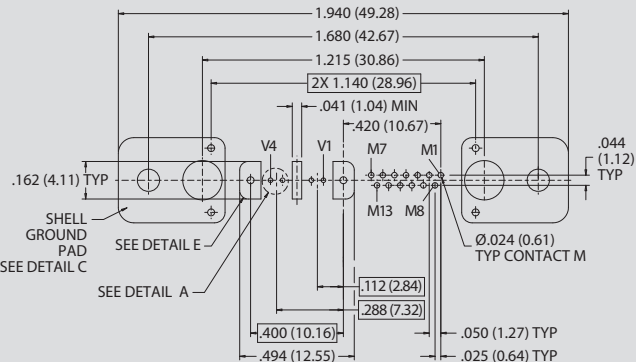
Plug Layout 2-13
PN and R1-R6 Hardware



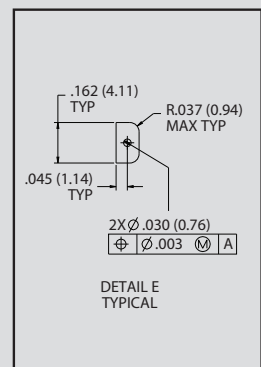
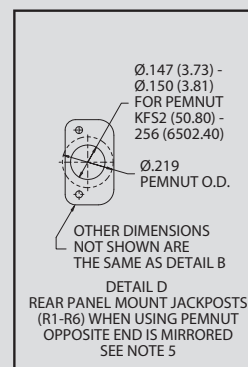
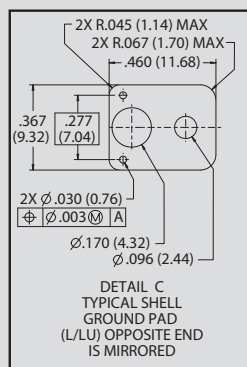
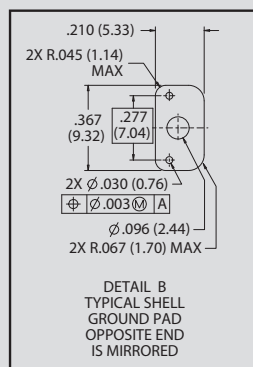
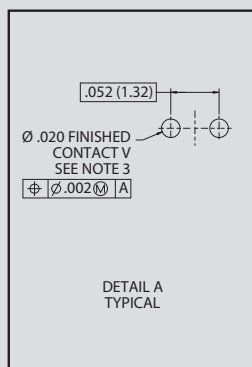
Receptacle Layout 2-13
PN and R1-R6 Hardware



Plug Layout 2-13
L/LU Hardware



Receptacle Layout 2-13
L/LU Hardware



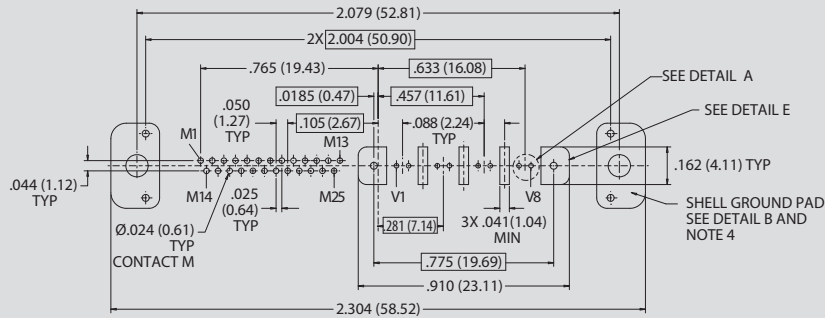
NOTES

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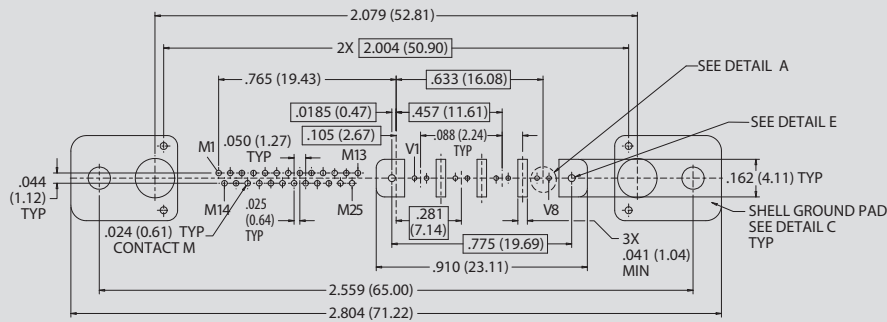
"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints

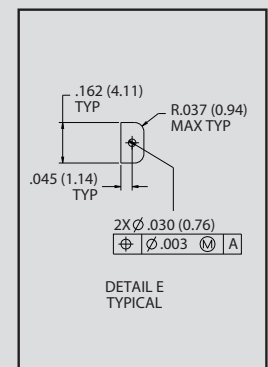
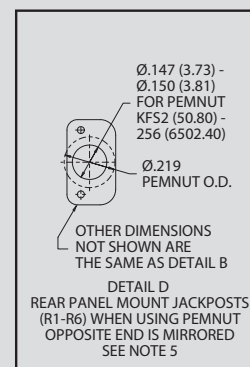
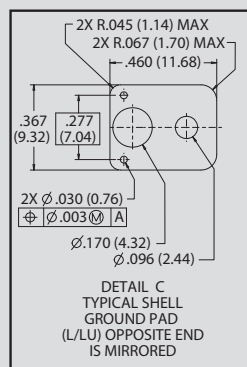
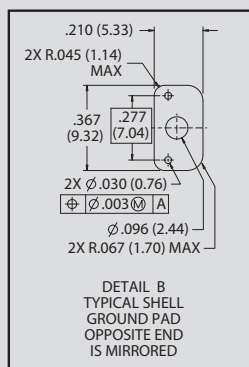
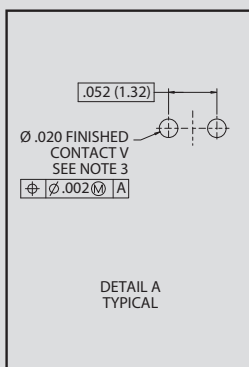


**Plug Layout 4-25
PN and R1-R6 Hardware**



**Plug Layout 4-25
L/LU Hardware**

MICRO-D VERSALINK CONNECTORS



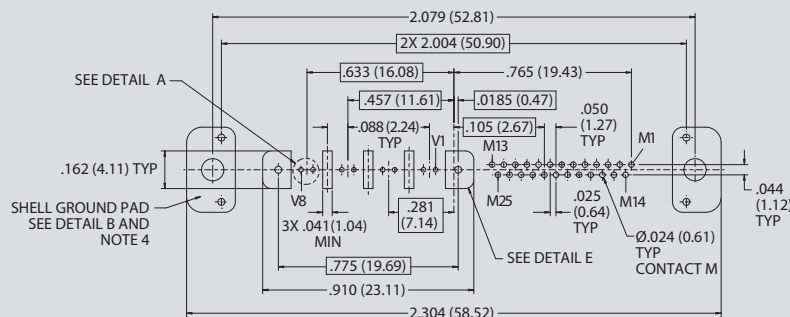
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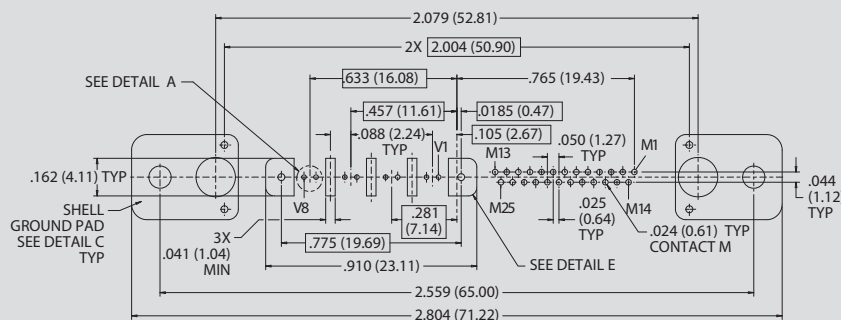
"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



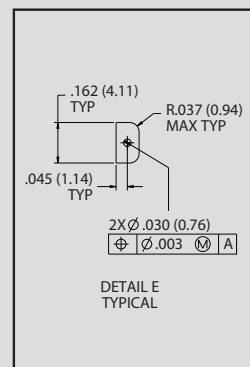
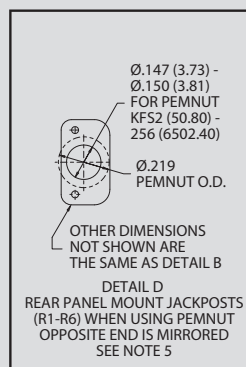
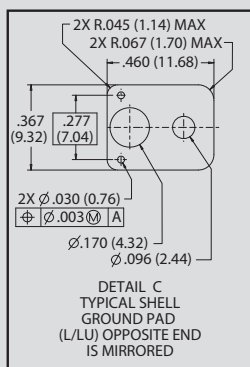
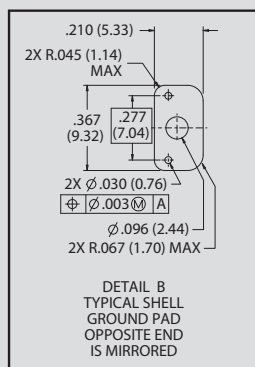
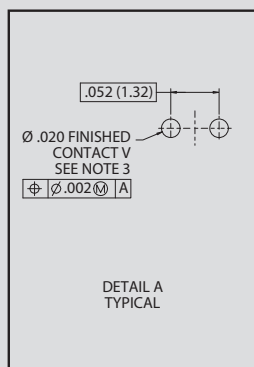
GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints



**Receptacle Layout 4-25
PN and R1-R6 Hardware**



**Receptacle Layout 4-25
L/LU Hardware**



NOTES

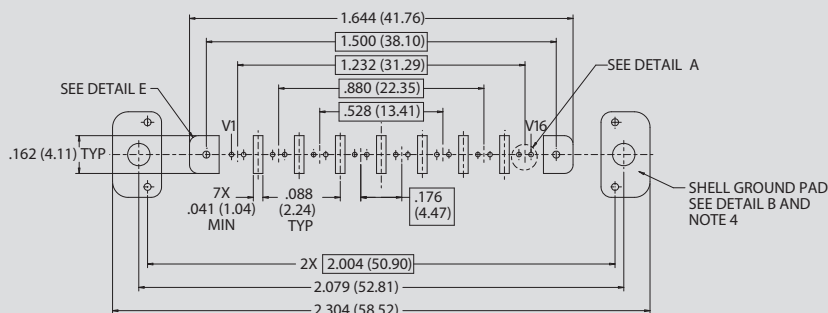
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"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors

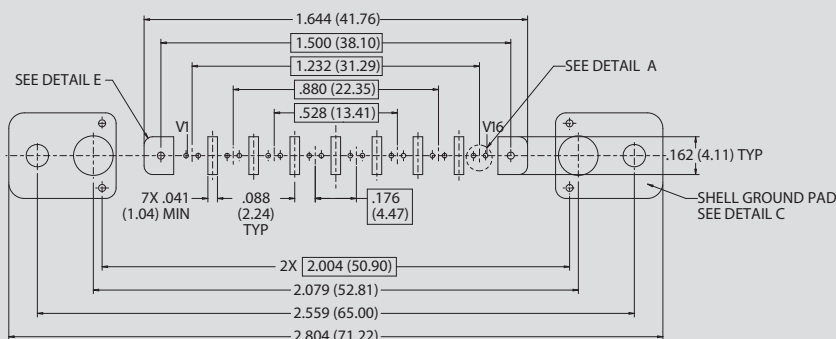


GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints

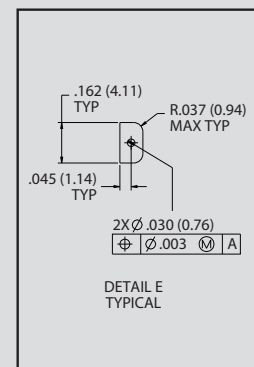
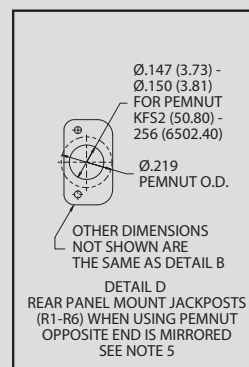
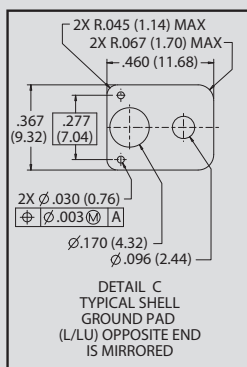
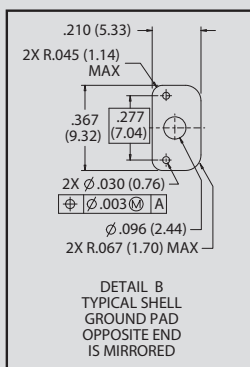
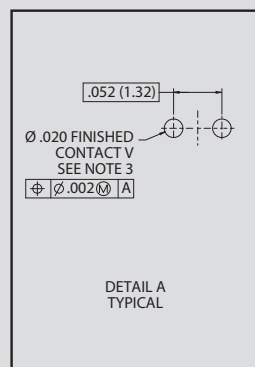
MICRO-D VERSALINK CONNECTORS



**Plug Layout 8-0
PN and R1-R6 Hardware**



**Plug Layout 8-0
L/LU Hardware**



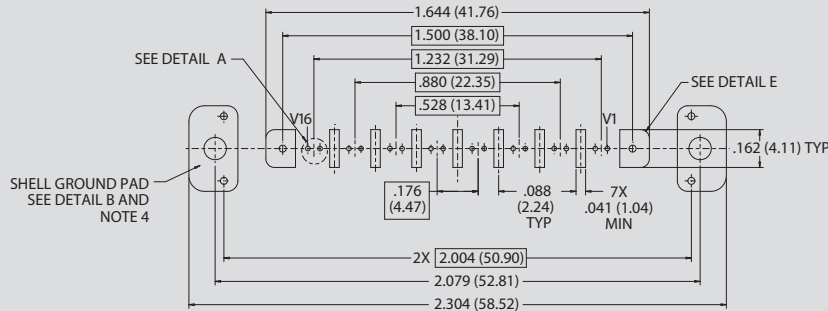
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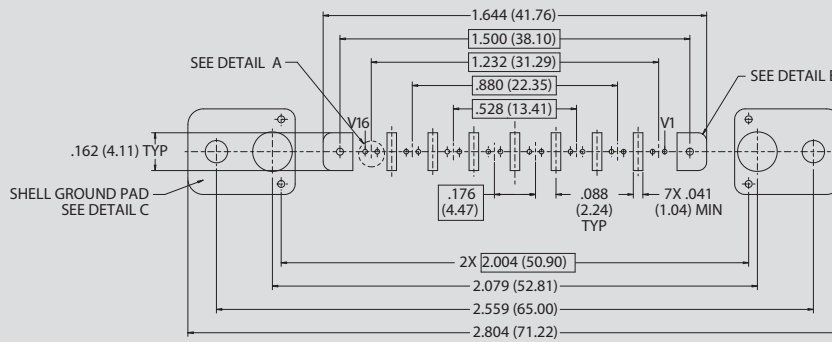
"ZERO-CROSSTALK" M83513 Micro-D VersaLink™ Connectors



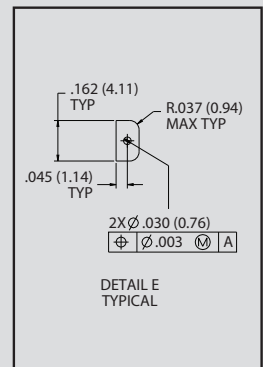
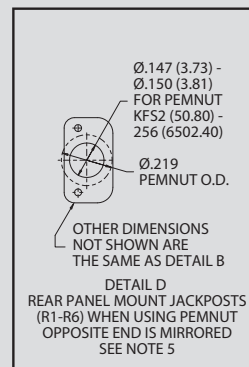
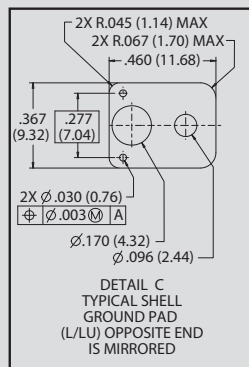
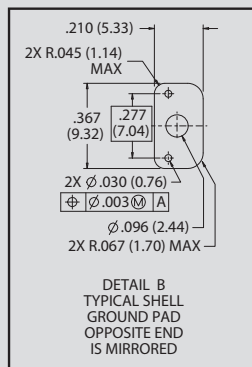
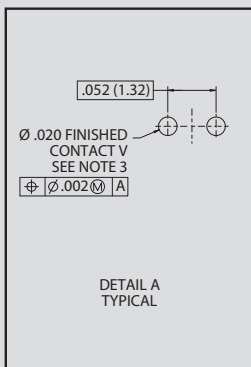
GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints



**Receptacle Layout 8-0
PN and R1-R6 Hardware**



**Receptacle Layout 8-0
L/LU Hardware**



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