

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



GVLM-BR Right-Angle PCB Connectors

MATERIALS AND FINISHES

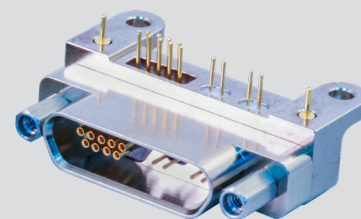
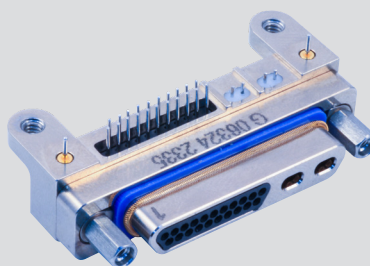
- Connector shell: aluminum alloy 6061
- Insulator (v): rigid dielectric
- Insulator (m): liquid crystal polymer (LCP) or polyphenylene sulfide (PPS)
- Flange seal: fluorosilicone rubber, blue
- Pin contact:
copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating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

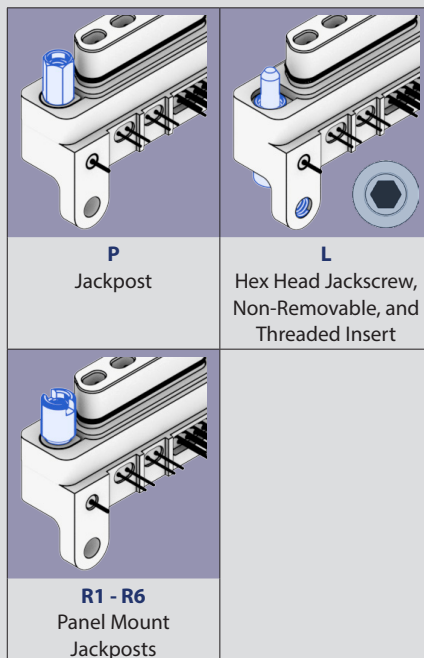
- Refer to GHS4-M-1000 for insert arrangement details on page 94.
- Refer to GVLM-1001 for GVLM-BR PCB footprints on page 123.
- Recommended mating dimensions must be maintained when no hardware is used, see page 95.
- Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
- Hardware always required to ensure connector pair is fully mated when installed.
- 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	BR	P	T	-.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 ⁴	P = Plug S = Receptacle								
Connector Style	BR = Board Right Angle								
Hardware ^{3,5} (see mounting hardware table)	P = Jackpost L = Hex head jackscrew (non-removable) Panel Mount Jackposts: R1 = .032 panel R2 = .047 panel R3 = .062 panel R4 = .093 panel R5 = .125 panel R6 = .080 panel								
Threaded Insert Option	T = Threaded insert in board-mount hole (required for L hardware) Omit for thru-hole								
PC Tail Length ⁶	.080, .110, .140 (Length in Inches +.020/-0.000)								

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

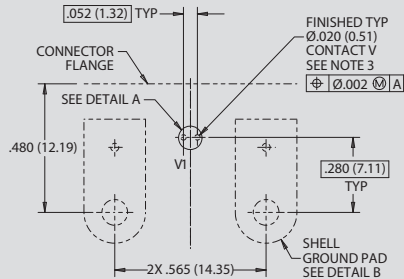
Glenair®

MICRO-D VERSALINK CONNECTORS

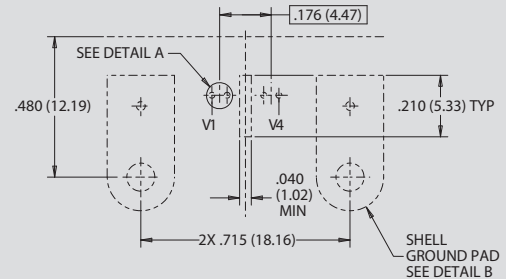
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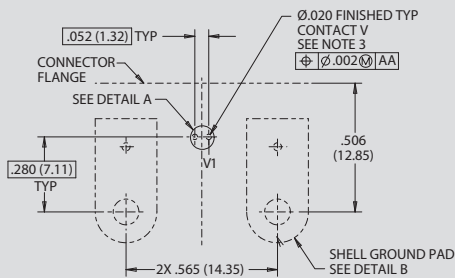
GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints



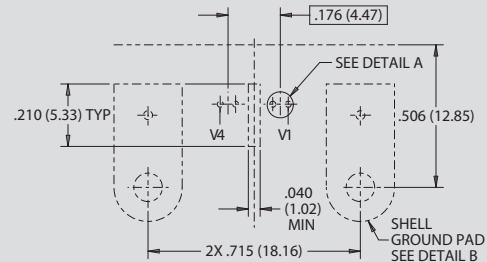
Plug Layout 1-0



Plug Layout 2-0



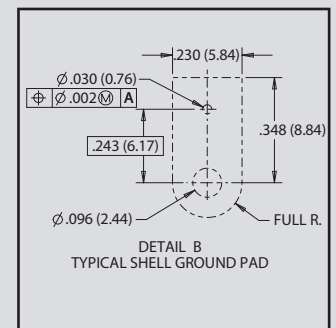
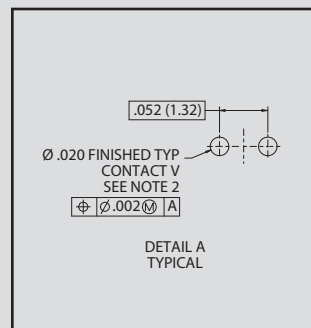
Receptacle Layout 1-0



Receptacle Layout 2-0

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference application notes AN0005 for optimal performance.

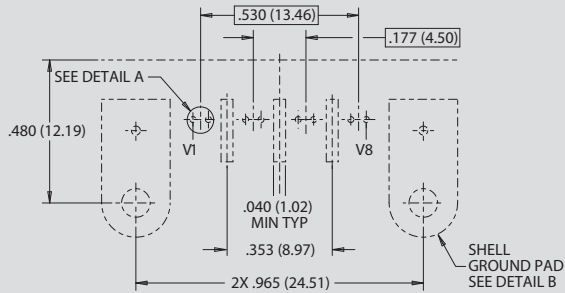


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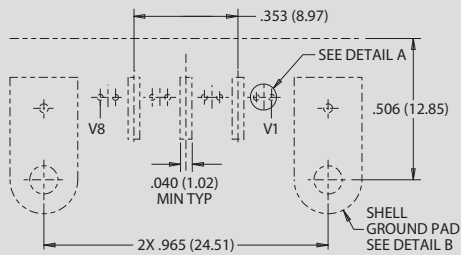


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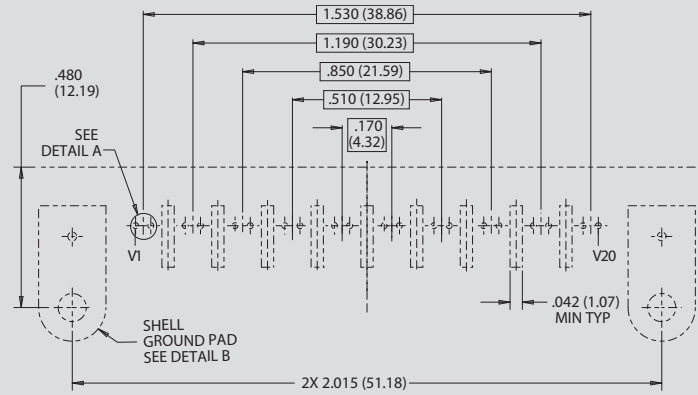
MICRO-D VERSALINK CONNECTORS



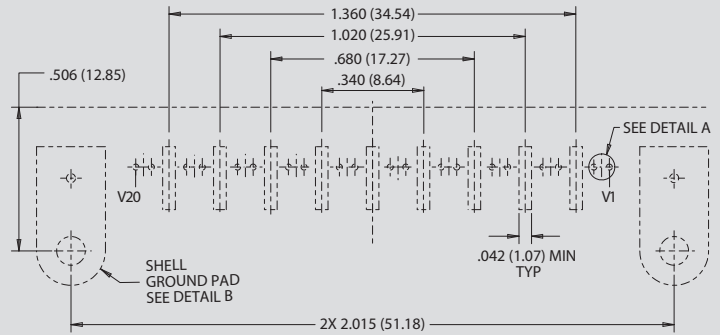
Plug Layout 4-0



Receptacle Layout 4-0



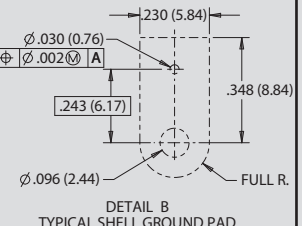
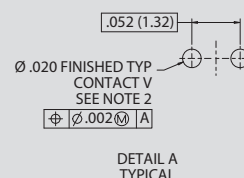
Plug Layout 10-0



Receptacle Layout 10-0

NOTES

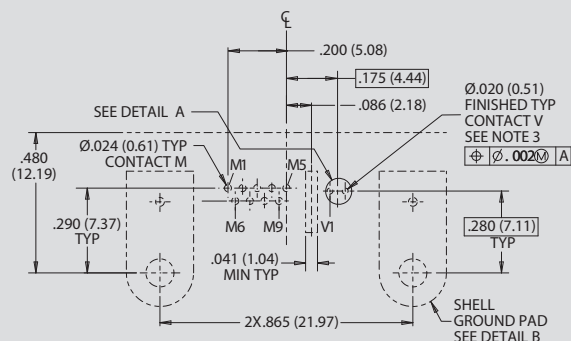
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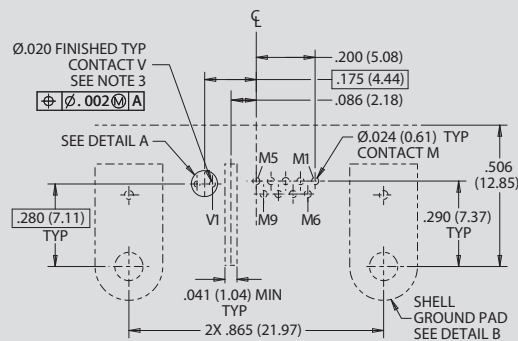
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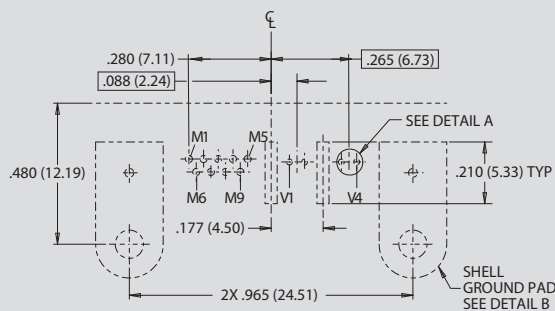
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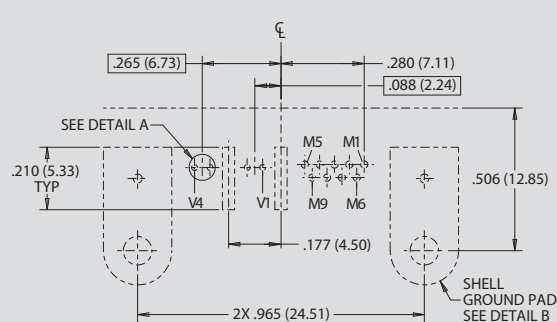
Plug Layout 1-9



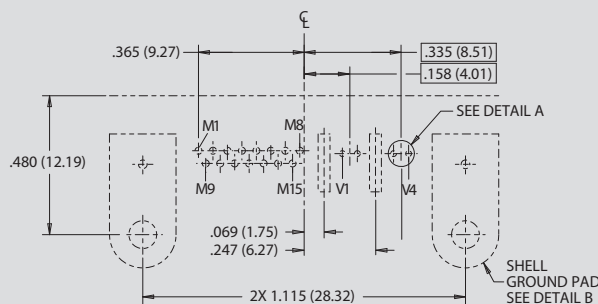
Receptacle Layout 1-9



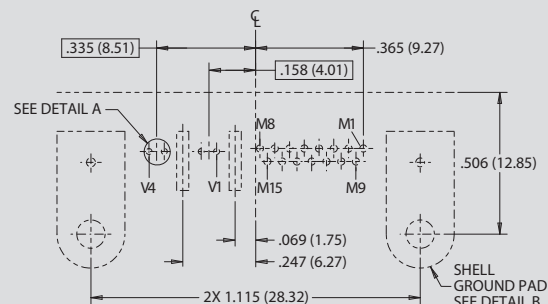
Plug Layout 2-9



Receptacle Layout 2-9



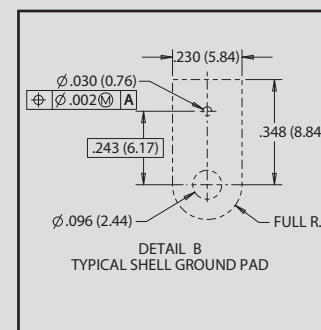
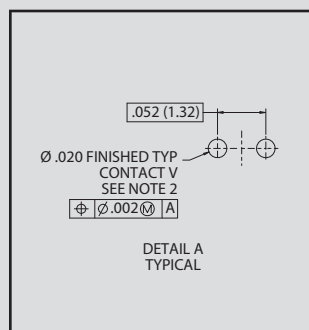
Plug Layout 2-15



Receptacle Layout 2-15

NOTES

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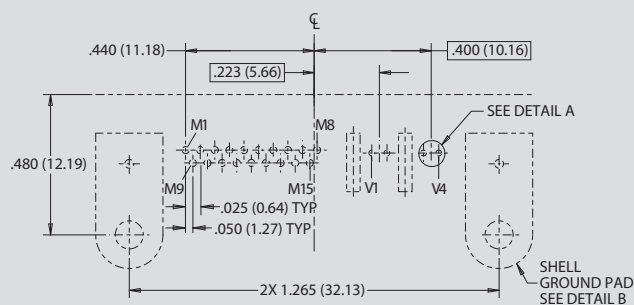


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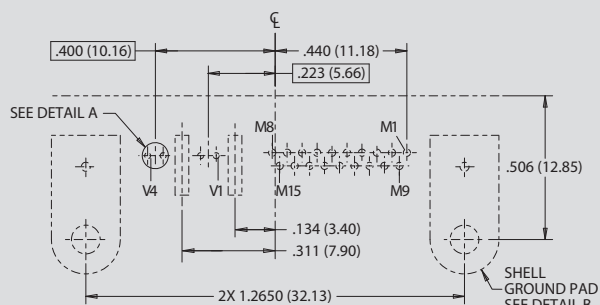


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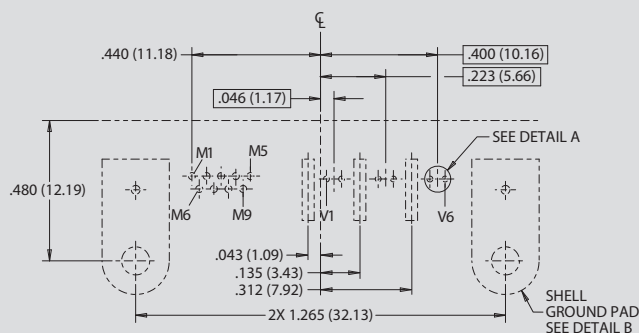
MICRO-D VERSALINK CONNECTORS



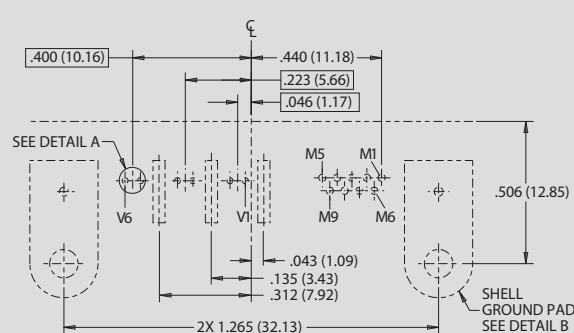
Plug Layout 2-21



Receptacle Layout 2-21



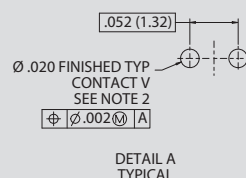
Plug Layout 3-9



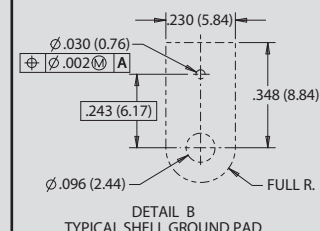
Receptacle Layout 3-9

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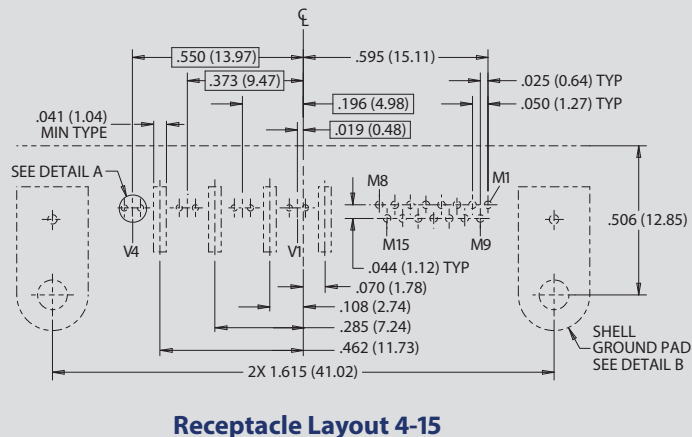


**DETAIL A
TYPICAL**



**DETAIL B
TYPICAL SHELL GROUND PAD**

MICRO-D VERSALINK CONNECTORS

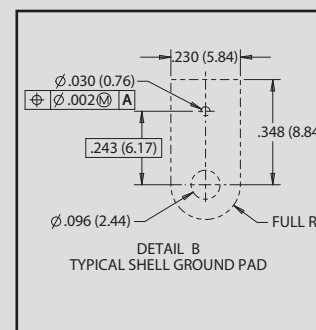


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MICRO-D VERSALINK CONNECTORS



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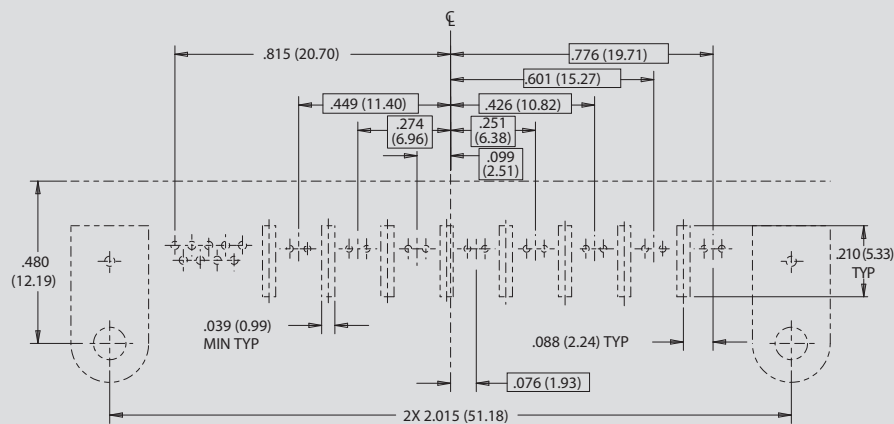


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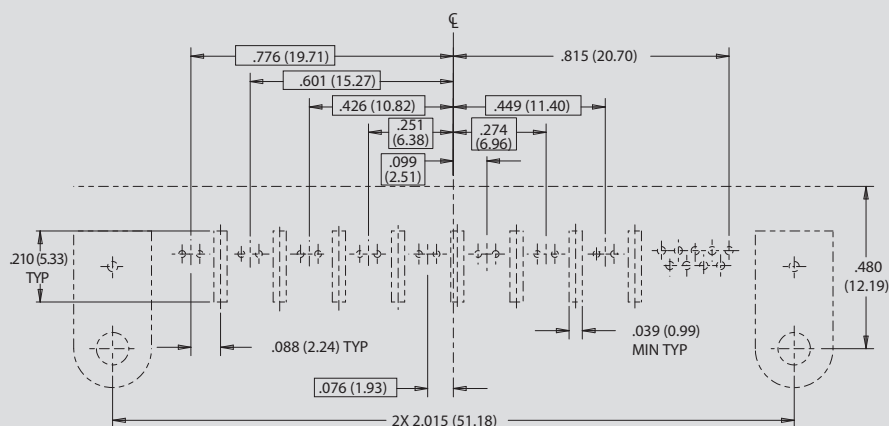


GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints

MICRO-D VERSALINK CONNECTORS



Plug Layout 8-9



Receptacle Layout 8-9

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