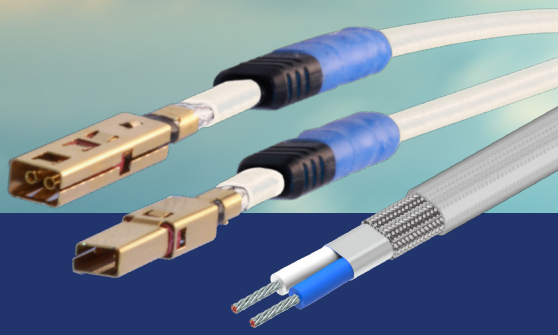
MISSION-CRITICAL
INTERCONNECT
SOLUTIONS

Glenair®

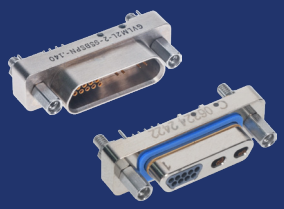


VersaLink™ "Zero-Crosstalk" Twinax Connectors and Cables

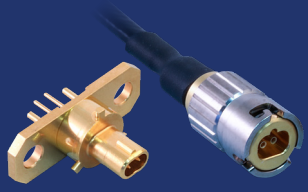
Optimized for use with SpeedLine™ cable, up to 28 Gbps per pair

Series 806
Micro Miniature Circular

Series 794
Scoop-Proof Rectangular



M83513 Type
Micro-D



VersaLink Bridge
Board Connectors

AUGUST 2024

HIGH-SPEED
VERSALINK™
DIFFERENTIAL
TWINAX

VersaLink™

Aerospace-Grade Connectors with High-Speed VersaLink "Zero Crosstalk" Contact Technology

VersaLink Micro-D turnkey prewired assemblies

Innovative differential twinax crimp contacts with highest available bandwidth—up to 28 Gbps each—in rugged mil-aero circular and rectangular connector packaging. Hybrid insert arrangements support both standard signal as well as high-speed differential data.

VersaLink pin and socket crimp contacts sold separately. Save assembly time and labor with pre-wired, 100% tested VersaLink single-ended pigtails and cable assemblies, supplied with cable grommet follower if applicable.

- **Shielded differential data-pair solution for Ethernet, USB, SATA, PCIe, DisplayPort, and HDMI protocols**
- **Higher speed and density than standard mil-spec style twinax designs—up to 28 Gbps**
- **Aggressively shielded pairs result in virtually zero crosstalk**
- **Hybrid contact layouts with standard signal pins**
- **Optimized for use with Glenair SpeedLine™ 100 Ohm shielded flat pair and twisted pair cables**

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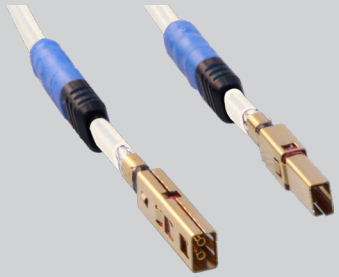
"ZERO-CROSSTALK"

VersaLink™ Differential Twinax Connectors

Table of Contents



VersaLink Contact Technology

VersaLink Twinax contact technology supports high-speed serial data protocols including 100 Gigabit Ethernet, USB4, SATA, PCIe, DisplayPort, and HDMI. Crimp-contact twinax modules are sold separately for ready packaging in Glenair signature circular and rectangular connectors.

Page 2

Series 806 VersaLink Connectors

Glenair Signature Series 806 Mil-Aero connectors with VersaLink contacts feature advanced electrical, mechanical, and environmental performance plus reduced size and weight compared to D38999. Rapid-advance ratcheted coupling optimizes fast and reliable mating and demating.

Page 10

Series 794 VersaLink Connectors

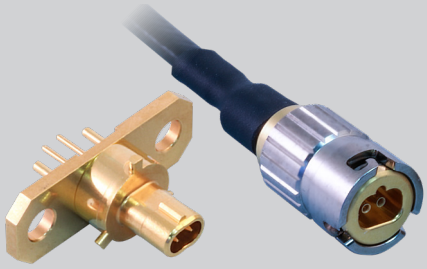
The 794 rectangular series is designed for avionics and other high-data rate aerospace applications that require optimal contact and connector density. Dual-lobe scoop-proof shells prevent mating damage and optional polarizing keys prevent mis-mating issues. Rugged environmental design with robust EMC performance, ideal for blind-mate applications.

Page 48

Micro-D VersaLink Connectors

Ultra miniature Micro-D connectors with High-Speed VersaLink contacts offer the industry's highest speed and density compared to conventional mil-spec style twinax solutions. Hybrid arrangements with VersaLink contact modules and standard Micro-D contacts available for signal and power applications. Series is inter-mountable with standard Micro-D panel cutout dimensions.

Page 92



VersaLink Bridge Board Level Connectors

The Glenair VersaLink Bridge is a high-density, micro-form factor twinax connector / jumper assembly used to bridge the gap between point A and point B on the board with better signal integrity than native board traces. VersaLink Bridge is equally capable at reducing insertion loss and signal latency for data traffic between an ASIC or FPGA and the I/O.

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PRODUCT SELECTION GUIDE

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Dimensions in Inch (millimeter) are subject to change without notice.

HIGH-SPEED
VERSALINK™ TWINAX CONTACTS AND CABLES

VersaLink™

High-density, high-datarate twinax contact modules optimized for Glenair SpeedLine™ high-speed cable

High-density VersaLink delivers the fastest speeds and highest data rates available in a rugged twinax contact module

High-speed serial data protocols (USB4, PCIe, etc.) all have transmission rates in the 10 Gb/s+ range for each data pair. In order to provide truly high-speed signal integrity for these bandwidth-dependent protocols, Glenair has invented a new contact technology called VersaLink™ which delivers outstanding impedance matching and crosstalk isolation at both the cable-to-connector interface, as well as the connector-to-board interface. VersaLink is a highly-engineered differential twinax contact module available for packaging in Glenair signature circular and rectangular connector formats including MIL-DTL-83513 Micro-D, Series 806 Mil-Aero circular, and Series 794 rectangular. Contact modules are supplied as discrete crimp contact units for customer termination, pre-terminated contact jumpers, or as turnkey cable assemblies. Cables and jumpers utilize Glenair SpeedLine 100 Ohm twisted and parallel pair cabling per customer requirements.

- **VersaLink: shielded differential twinax interconnect solution**
- **Higher speed and density than mil-spec style twinax solutions, up to 28 Gbps**
- **Individually shielded pairs result in virtually zero cross talk**
- **Time-saving VersaLink, pin and socket pre-terminated jumpers**
- **Specially designed ultra high-speed cables to complement contact bandwidth**

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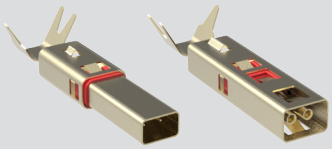
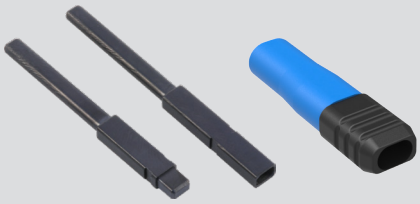
VersaLink Contact Bandwidth Performance and Signal Integrity — Page 4



853-045 Pin and 853-046 Socket VersaLink Contacts — Page 6

8574-0001 VersaLink Pin/Socket Cable Assemblies — Page 7

SpeedLine High-Speed Protocol Cables for VersaLink Contacts — Page 8



Grommet Followers, Dummy Contacts, Crimp Tools, and Removal Tools — Page 9

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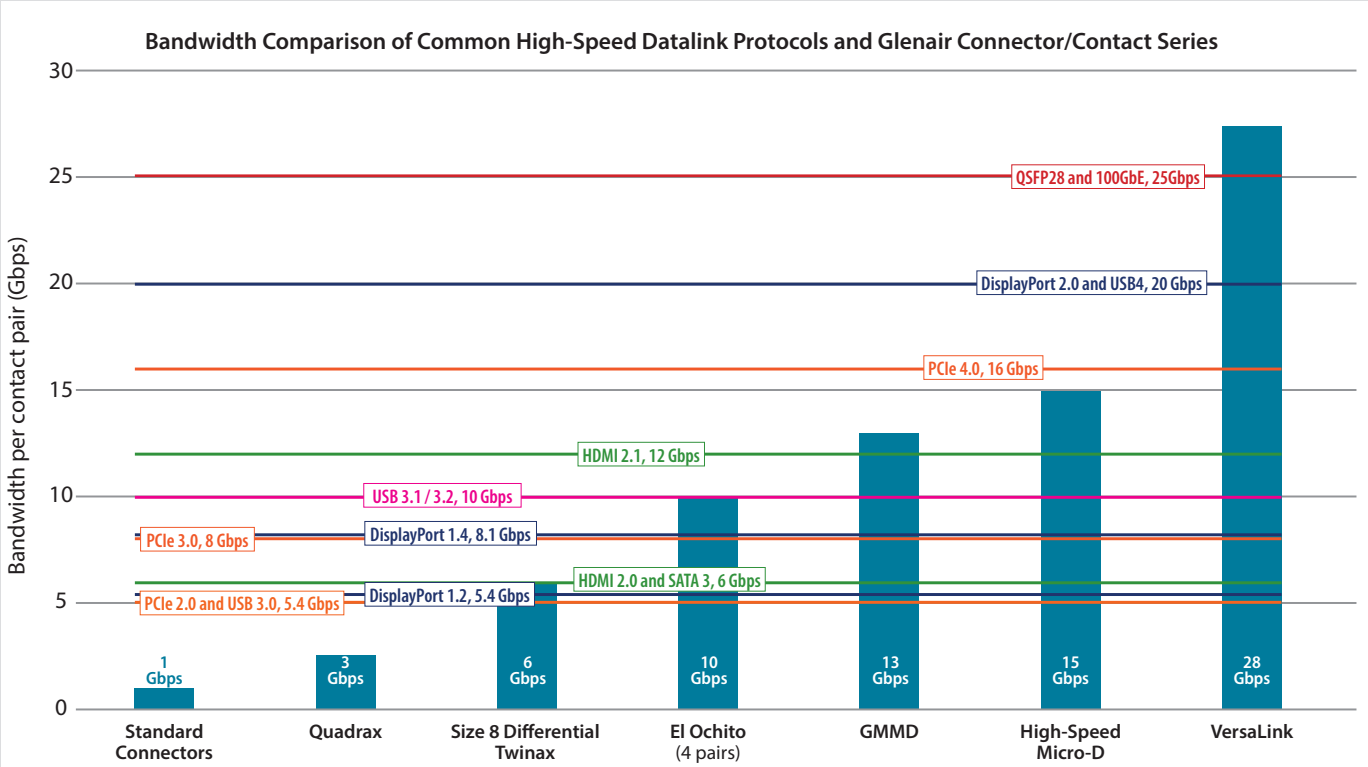
Comparative Bandwidth Performance



BANDWIDTH COMPARISON OF COMMON HIGH-SPEED DATALINK PROTOCOLS AND GLENAIR CONNECTOR / CONTACT SERIES

The term "high-speed" refers to when the protocol requires specially designed contacts and cable in order to work properly. High-speed interconnect systems are geared to particular protocols such as Ethernet and USB, with unique cables, contacts, and connector housings for each protocol type.

The various high-speed protocols are principally characterized by their maximum bandwidth per contact pair, such as USB 3.0 at 5Gbps, SATA 3 at 6 Gbps per second, and DisplayPort 1.4 at 8.1 Gbps per second.

Glenair manufactures a host of high-speed ecosystems—contact, cable, and connector families—optimized for different protocol bandwidth requirements and different application environments. Each contact and connector family—from SpeedMaster to El Ochito to GMMD to GHSM and VersaLink, are supported by one or more qualified SpeedLine cables, manufactured directly by Glenair with optimal noise immunity, high-frequency performance, temperature rating, jacketing, and shielding.

Each cable and contact assembly is geared for use with a specific circular or rectangular connector series, again in accordance with protocol requirements. The table above demonstrates the relative bandwidth of these high-speed systems per contact pair. As shown, VersaLink delivers the highest rated bandwidth for a crimp contact, 28 Gbps per contact pair, making the system the best choice for 100 Gigabit Ethernet, DisplayPort 2.0, USB4, and other ultra-high-bandwidth protocols.

VersaLink is a revolutionary high-speed shielded twinax contact system capable of supporting the complete range of high data-rate, high bandwidth transmission protocols.

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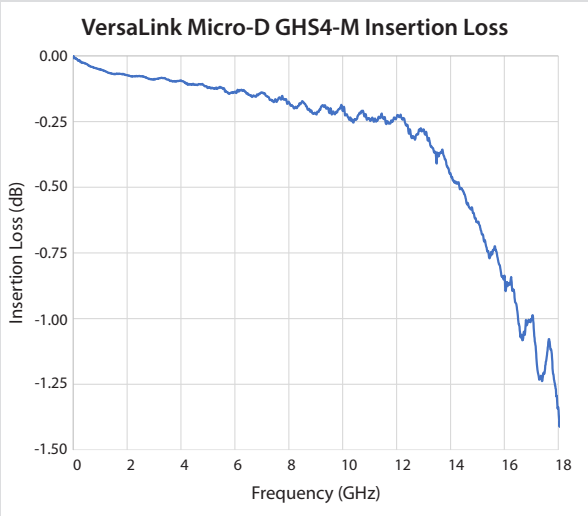
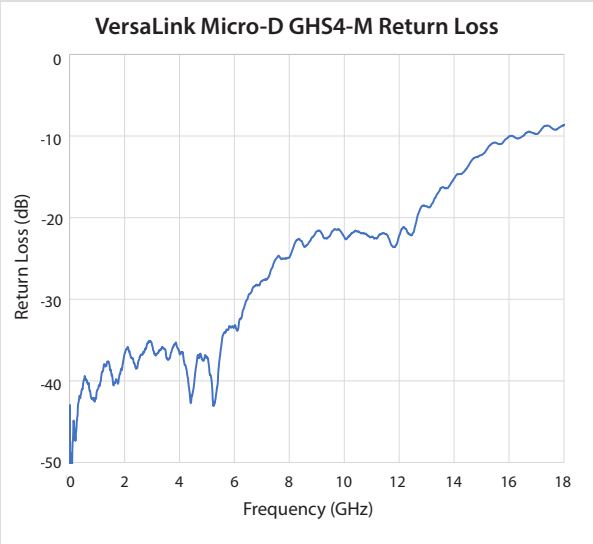
Signal Integrity: VersaLink Micro-D



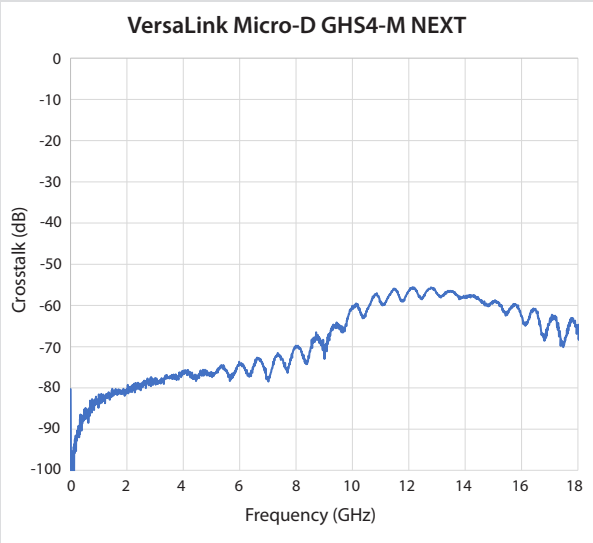
VERSALINK MICRO-D INSERTION LOSS

Insertion loss refers to the loss of signal power resulting from traveling through a cable or other component in a transmission line. High insertion loss can lead to signal degradation, reduced signal strength, and potentially cause errors in high-speed data transmission. The X axis in the graph charts frequency in GHz. The Y axis represents the magnitude of insertion loss in dB. The chart showcases low insertion loss performance of VersaLink at the full frequency range required for the protocols mentioned in the chart on the previous page.



VERSALINK MICRO-D RETURN LOSS

Return loss is a measure of the amount of signal power that is reflected back toward the source due to impedance mismatches in the transmission line. It quantifies how well the cable or component matches the characteristic impedance of the system. High return loss indicates good impedance matching and minimal reflections—crucial for maintaining signal integrity in high-speed data transmission. The X axis represents frequency in GHz. The Y axis represents the magnitude of return loss in dB. Higher dB values indicate better performance (less reflection). Results of this test indicate high return loss values across the target protocol frequency range.



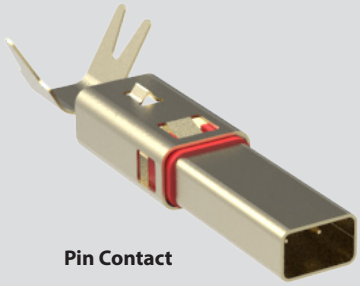
VERSALINK MICRO-D NEAR-END CROSSTALK (NEXT)

For the high-speed cable assembly under test, NEXT refers to the unwanted coupling of a signal from the aggressor line into the victim line at the same end of the cable assembly where the signal was transmitted (the Near End). It's a measure of how much signal noise from the line carrying the high-speed data (the aggressor) interferes with the monitored non-transmission (victim) line close to the source. The X axis represents frequency, measured in GHz. The Y axis represents the magnitude of crosstalk, measured in dB, where lower dB values indicate more significant interference. Results of this test sequence demonstrate Near-End Crosstalk dB values well above the magnitude of significant interference at target protocol frequencies.

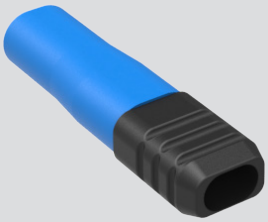
See GT-19-230 for full report.

853-045 and 853-046 VersaLink Pin and Socket Contacts

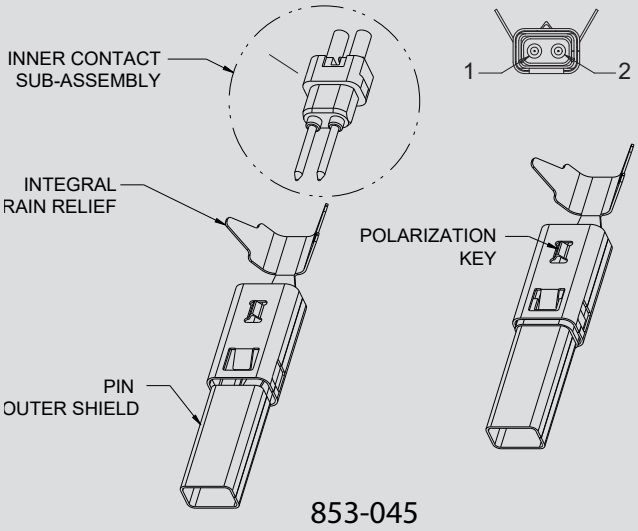
853-045 VERSALINK PIN



Pin Contact

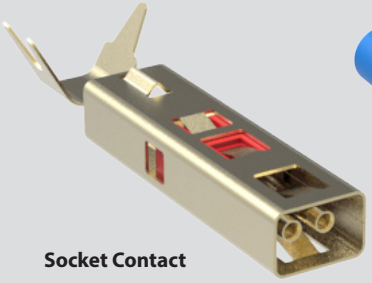


Optional Grommet Follower 859-207

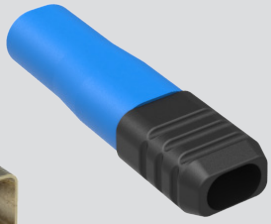


PART NUMBER DEVELOPMENT			
SAMPLE PART NUMBER	853-045	-01	F
Product Series / Basic No	853-045 = VersaLink, pin contact assembly		
Cable	See Table I		
Grommet Follower Option	F = Includes grommet follower; omit for none		

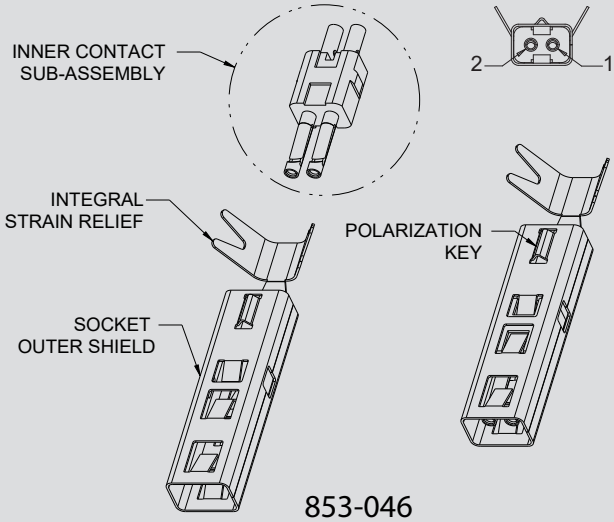
853-046 VERSALINK SOCKET



Socket Contact



Optional Grommet Follower 859-207



PART NUMBER DEVELOPMENT			
SAMPLE PART NUMBER	853-046	-01	F
Product Series / Basic No	853-046 = VersaLink, socket contact assembly		
Cable	See Table I		
Grommet Follower Option	F = Includes grommet follower; omit for none		

TABLE I

Dash No	Cable P/N	Cable Construction	Wire Gauge	Max Overall Size	Tooling	Assembly Instructions	Grommet Followers
-01	963-069-26	Parallel Pair Foil + Braid Shield	26 AWG 7/34	.133 x .083	859-205 859-206	AI85187	859-207-2
-02	963-068-26	Twisted Pair Foil + Braid Shield	26 AWG 7/34	.133 x .083	859-205 TBD	TBD	TBD

TOOLS

Contact P/N	Contact Type	Inner Contact		Shield		Contact Assembly Tool	VersaLink Removal Tool
		Crimp Tool	Die	Crimp Tool	Die		
853-045	Pin	809-464	859-205	809-465	859-206	N/A	859-158
853-046	Socket	809-464	859-205	809-465	859-206	600-277	859-158

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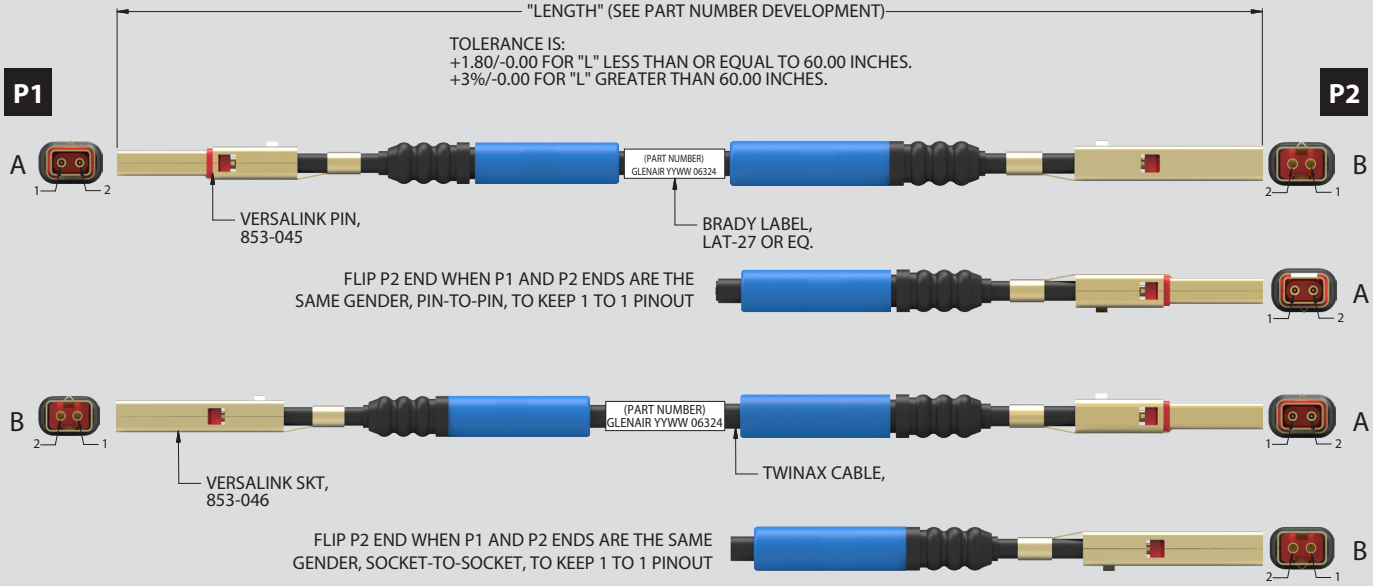
8574-0001 VersaLink Pin/Socket Cable Assemblies

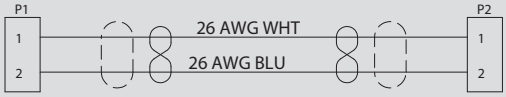
Save assembly time and cost with pre-wired, 100% tested VersaLink™ assemblies. Cables have VersaLink contacts terminated at one or both ends of aerospace-grade shielded cable. Supplied with cable grommet follower if applicable. Compatible with Glenair Series 794, Series 816, and Series 806 connectors. ***VersaLink contacts may only be installed in connectors with VersaLink insert arrangements.***

PART NUMBER DEVELOPMENT

SAMPLE PART NUMBER	8574-0001	-A	B	-5	-12
Product Series / Basic No	**8574-0001** = Pre-wired Cable Assembly				
P1 Connector	**-A** = VersaLink pin (853-045-01F) with grommet follower **-B** = VersaLink socket (853-046-01F) with grommet follower				
P2 Connector	**A** = VersaLink pin (853-045-01F) with grommet follower **B** = VersaLink socket (853-046-01F) with grommet follower **N** = No connector				
Cable Option	**-4** = 963-068-26 **-5** = 963-069-26 (See cable drawings on following pages)				
Length	Overall Length in inches (min length: 8")				



VERSALINK WIRING DIAGRAM
PIN TO SKT, SKT TO PIN,
PIN TO PIN, SKT TO SKT



TAG/BAG LABEL

(PART NUMBER)
(JOB NUMBER)
GLENAIR 06324
1 EACH D/C (YYWW)

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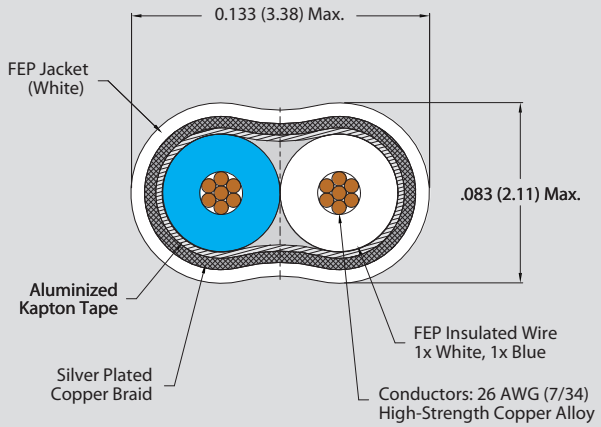
SpeedLine 100 Ohm High-Speed Protocol Cables

26 AWG - TWISTED PAIR

Glenair Part Number	963-068-26



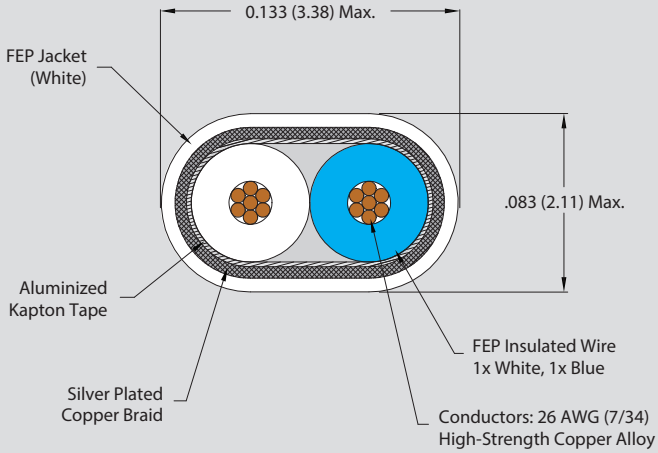
Cable Construction	
Primary Wires	26 AWG 7/34
Conductor	Silver Plated High-Strength Copper Alloy
Insulation	FEP (Color: Blue / White)
Shield	Aluminized Kapton Tape
Braid	Silver Plated Copper, >90% Coverage
Jacket	FEP, White, Laser-Markable
Electrical Performance	
DWV	600V AC
Differential Impedance	100 ±6 Ohms
Insertion Loss	See below
Skew	3 ps / FT, max.
Physical Properties	
Bend Radius	1" min
Weight	5.2 g/Ft, nom.
Environmental Properties	
Temperature Range	-65° C to 200° C

Attenuation

Frequency (GHz)	dB/ft Max
1.0	0.396
2.5	0.632
5.0	0.945
7.5	1.257
10.0	1.598

26 AWG - PARALLEL PAIR

Glenair Part Number	963-069-26



Specifications	
Primary Wires	26 AWG 7/34
Conductor	Silver Plated High-Strength Copper Alloy
Insulation	FEP (Color: Blue / White)
Shield	Aluminized Kapton Tape
Braid	Silver Plated Copper, >90% Coverage
Jacket	FEP, White, Laser-Markable
Electrical Performance	
DWV	600V AC
Differential Impedance	100 ±6 Ohms
Insertion Loss	See below
Skew	3 ps / FT, max.
Physical Properties	
Bend Radius	1" min
Weight	4.68 g/Ft, nom.
Environmental Properties	
Temperature Range	-65° C to 200° C

Attenuation

Frequency (GHz)	dB/ft Max
1.0	0.359
2.5	0.572
5.0	0.836
7.5	1.075
10.0	1.313
15.0	1.821
18.0	2.161

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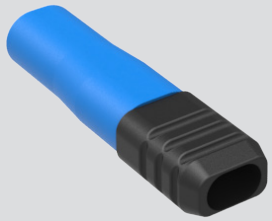
VersaLink Contact Grommet Follower, Dummy Contacts, Crimp Tools, and Removal Tool

859-207 VERSALINK GROMMET FOLLOWER



Optional grommet follower is recommended. Slide boot onto wire before terminating contact. After contact is installed in connector, slide grommet follower forward into connector grommet to seal the contact cavity.

PART NUMBER DEVELOPMENT		
SAMPLE PART NUMBER	859-207	
Basic No	**859-207** = VersaLink, Grommet Follower	
Cable	See Table I	

MATERIAL AND FINISH

- Grommet: fluorosilicone blend
- Follower: rigid dielectric

TABLE I		
Dash No	Cable P/N	Envelope Dimensions
-2	963-069-26	.133 x .083

859-224 VERSALINK PIN OR SOCKET DUMMY CONTACT SEALING PLUG

Conventional sealing plugs, combined with the connector grommet seal, provide reliable dust and moisture ingress protection. But common contact sealing plugs still require that a properly-sized electrical contact be first inserted into the cavity, followed by the plastic plug. Glenair innovative Dummy Contact Sealing Plugs (DCSP) eliminate the need to use expensive electrical contacts as part of the sealing regimen. Fast and easy-to-install, these longer form-factor Dummy Contact Sealing Plugs (DCSP) are a one-piece solution to contact cavity sealing that results in significant weight reduction, material cost reduction, and assembly labor. ***Grommet follower 859-207-2 required to seal rear of cavity.***

PART NUMBER DEVELOPMENT			
SAMPLE PART NUMBER	859-224	-P	F
Basic No	**859-224** = VersaLink, Dummy Contact		
Gender	**P** = Pin **S** = Socket		
Grommet Follower	**F** = Grommet Follower; omit for none		

VERSALINK INNER CONTACT CRIMP TOOL

Contact Crimp Tool	
853-045 Pin	809-464
853-046 Skt	
Contact Crimp Die	
853-045 Pin	859-205
853-046 Skt	

VERSALINK SHIELD CRIMP TOOL

Shield Crimp Tool	
853-045 Pin	809-465
853-046 Skt	
Shield Crimp Die	
853-045 Pin	859-206
853-056 Skt	

VERSALINK CONTACT ASSEMBLY TOOL

Socket Assembly Tool	
853-046 Skt	600-277
Pin Assembly Tool	
853-045 Pin	None Required

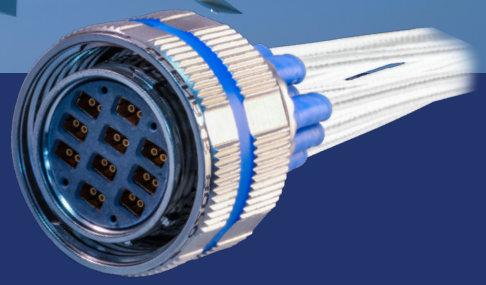
VERSALINK CONTACT REMOVAL TOOL

Removal Tool
859-158

SERIES 806 MIL-AERO

VersaLink™

Series 806 High-Density Mil-Aero circular connectors with VersaLink differential twinax contacts



Series 806 offers significant size and weight savings while meeting key performance MIL-DTL-38999 Series III benchmarks for a broad range of applications such as commercial and military aerospace, defense systems, and more. Designed for rugged use in harsh vibration, shock, and environmental settings—as well as high-altitude, unpressurized aircraft zones, with aggressive voltage ratings and altitude immersion standards, the smaller form-factor twinax contact design enables from 1 to 32 pairs within a single size 24 Series 806 connector. Glenair Signature Series 85 VersaLink® twinax contact modules provide higher speed and density than conventional mil-spec twinax solutions. Individually shielded pairs result in virtually zero crosstalk with data rates up to 28 Gbps. These highly-engineered differential twinax modules are designed for support of high-speed serial data protocols including USB4, PCIe, 100 Gigabit Ethernet, DisplayPort, and HDMI.

Supported Networking Protocols
10 Gb Ethernet
25 Gb Ethernet
40 Gb Ethernet
50 Gb Ethernet
100 Gb Ethernet

Supported Peripheral and Display Protocols
DVI
HDMI 2.1
DisplayPort 2.0
SATA 3
USB 3.0
USB 3.1 Type C
USB 3.2
USB4
PCIe 4
QSFP28

SERIES 806: 38999 PERFORMANCE IN A SMALLER, LIGHTER PACKAGE

Series 806 MIL-DTL-38999 Type

Series 806 has passed the following MIL-DTL-38999 Series III vibration tests:

- Sine Vibration: 60g
- Random Vibration at elevated temperature: 43g rms
- Random vibration at ambient temperature: 49g rms

Other performance features include:

- 70,000 ft. altitude immersion
- 500 mate / demate cycles

- Next-generation small form factor aerospace-grade circular connector
- Designed for rugged use in harsh application environments such as aircraft, industrial robotics, and more
- Upgraded environmental, electrical, and mechanical performance
- Integrated anti-decoupling technology
- High-speed VersaLink contact layouts and combo VersaLink and high density 20HD and 22HD contact arrangements
- +200°C temperature rating

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	Series 806 PCB Footprints	Page 38
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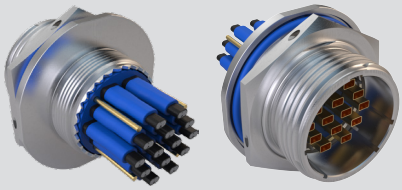
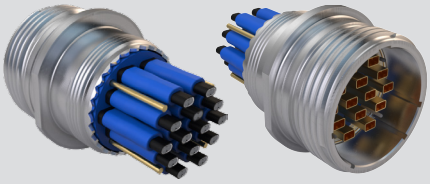
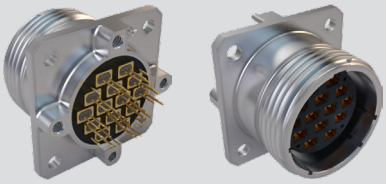
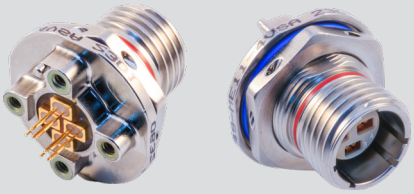
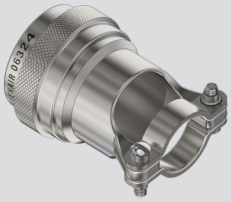
	806-046 Jam-Nut Receptacle with VersaLink Contacts	Page 24
	806-047 In-Line Receptacle with VersaLink Contacts	Page 26
	806-048 PCB Wall Mount Receptacle with VersaLink Contacts	Page 28
	806-049 PCB Jam-Nut Receptacle with VersaLink Contacts	Page 30
	Series 806 Backshells Product Selection Guide	Page 32
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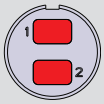
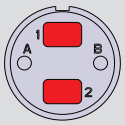
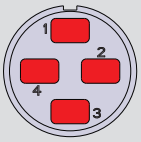
Insert Arrangements

Insert Arrangement
Mating Face View of Pin Contacts

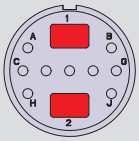
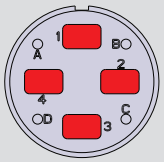
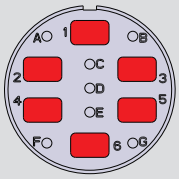
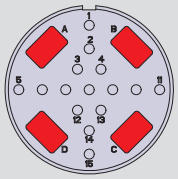






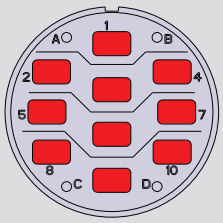
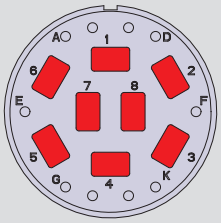
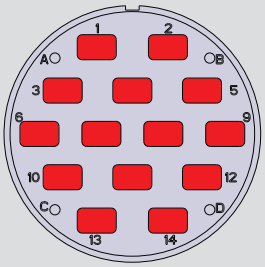
Series 806	8-1V	9-2V	10-2V2		11-4V
Contact Size	VersaLink	VersaLink	VersaLink	20HD	VersaLink
No. of Contacts	1	2	2	2	4
Protocol(s) Supported	10GBase-T1 Ethernet	SATA 3			40G Ethernet

Insert Arrangement
Mating Face View of Pin Contacts

Series 806	11-2V9		12-4V4		14-6V7		14-4V15*	
Contact Size	VersaLink	22HD	VersaLink	22HD	VersaLink	22HD	VersaLink	22HD
No. of Contacts	2	9	4	4	6	7	4	15
Protocol(s) Supported	USB 3.1 Gen 2						USB 3.1 Gen 2 Type C, USB 3.2, USB4, HDMI, DisplayPort, DVI Single Link	

Insert Arrangement
Mating Face View of Pin Contacts

Series 806	16-10V4		16-8V10*		18-14V4	
Contact Size	VersaLink	22HD	VersaLink	22HD	VersaLink	22HD
No. of Contacts	10	4	8	10	14	4

* For arrangements with angled cavities, contact keyway always faces away from center.

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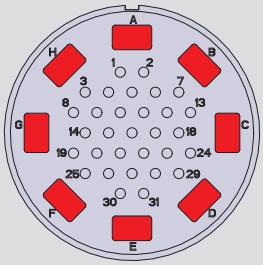
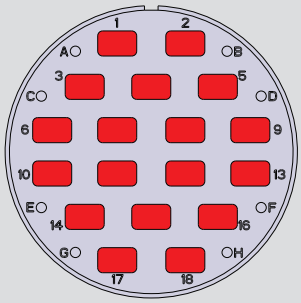
Insert Arrangements

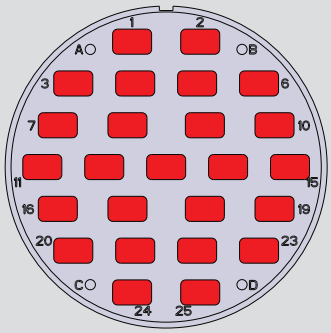
Insert Arrangement
Mating Face View of Pin Contacts

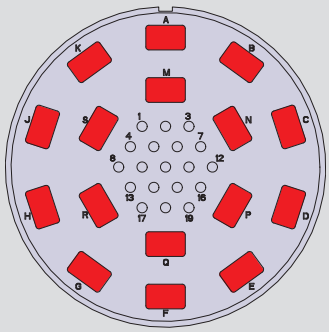




Series 806	18-8V31*		20-18V8	
Contact Size	VersaLink	22HD	VersaLink	22HD
No. of Contacts	8	31	18	8

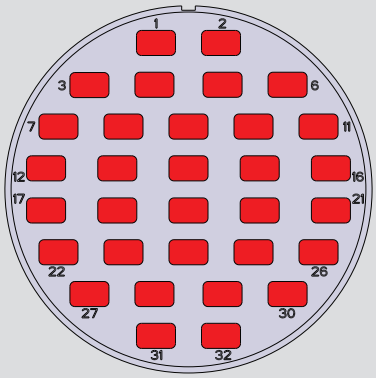
Insert Arrangement
Mating Face View of Pin Contacts

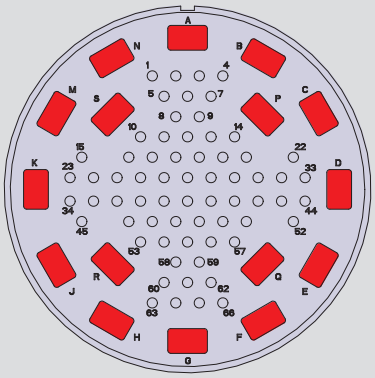




Series 806	20-25V4		22-16V19*	
Contact Size	VersaLink	22HD	VersaLink	22HD
No. of Contacts	25	4	16	19

Insert Arrangement
Mating Face View of Pin Contacts





Series 806	24-32V	24-16V66*	
Contact Size	VersaLink	VersaLink	22HD
No. of Contacts	32	16	66

* For arrangements with angled cavities, contact keyway always faces away from center.

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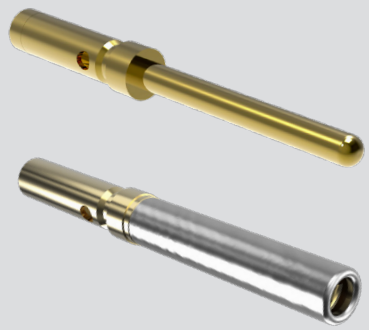
Signal and Power Contacts for Hybrid VersaLink Insert Arrangements

SIZE 22HD SIGNAL CONTACTS FOR SERIES 806 VERSALINK HYBRID ARRANGEMENTS



Military grade. Heavy gold plating. High-density size #22HD contacts accept #22 to #30 AWG wire. Compatible with Series 806 connectors with size 22HD contact cavities. Crimp termination. Contacts are bulk packaged.

SIZE 22HD CONTACTS FOR SERIES 806 CONNECTORS

Contact Type	Wire Size AWG	Part Number	Wire Cavity In.	Wire Cavity mm.	Color Band	Positioner Tool	Crimp Tool	Insert/Extract Tool
Pin	#22–#28	**850-094-1**	.0335-.0355	0.851-0.902	(none)	859-147	809-015	859-163
Pin	#26–#30	**850-094-2**	.0229-.0245	0.582-0.622	Blue	859-148		
Socket	#22–#28	**850-095-1**	.0335-.0355	0.851-0.902	(none)	809-005		
Socket	#26–#30	**850-095-2**	.0229-.0245	0.582-0.622	Blue	809-057		

WIRE STRIP LENGTH

CONSTRUCTION

- Copper alloy, 50 microinches gold over nickel plating
- Socket Hood: stainless steel, passivated

SPECIFICATIONS

- Operating temperature: -65°C to +200°C
- Current rating 5 A
- Crimp Tensile Strength:

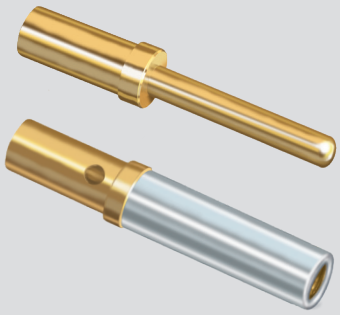
Wire Size	Axial Load (lbs)
22	12
24	8
26	5
28	3
30	1.5

- Contact Resistance:
- Silver-plated wire, 25°C (AS39029 Table 5)

Wire Size	Test Current Amperes	Max. mV Drop Initial	Max. mV Drop After Cond.
22	5	73	88
24	3	45	54
26	2	52	63
28	1.5	54	65
30	1	60	73

- Meets performance requirements of SAE AS39029/121 and /122

SIZE 20HD POWER CONTACTS FOR SERIES 806 VERSALINK HYBRID ARRANGEMENTS



Military grade. Heavy gold plating. High-density size #20HD contacts accept #20 to #24 AWG wire. Compatible with Series 806 connectors with size 20HD contact cavities. Crimp termination. Bulk packaged.

SIZE 20HD POWER CONTACTSFOR SERIES 806 CONNECTORS

Contact Type	Wire Size AWG	Part Number	Positioner Tool	Crimp Tool	Insert/Extract Tool
Pin	#20–#24	809-204	809-206	**809-015** (M22520/2-01)	Metal Tip Tool: **809-203** Plastic Tip Tool: **809-203D**
Socket	#20–#24	809-205			

WIRE STRIP LENGTH

CONSTRUCTION

- Copper alloy, 50 microinches gold over nickel plating
- Socket Hood: stainless steel, passivated

SPECIFICATIONS

- Operating temperature: -65°C to +200°C
- Wire accommodation: 20, 22, and 24
- Crimp Tensile Strength:

Wire Size	Axial Load lbs.
20	20
22	12
24	8

- Contact Resistance: silver-plated wire, 25°C (AS39029 Table 5)

Wire Size	Test Current Amperes	Max. mV Drop Initial	Max. mV Drop After Cond.
20	7.5	55	66
22	5	73	88
24	3	45	54

- Meets performance requirements of SAE AS39029/121 and /122

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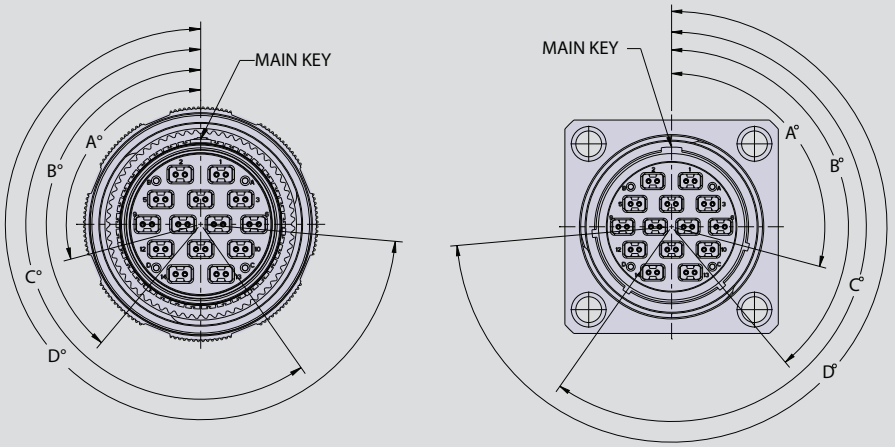
Polarization and Connector Torque Values

SERIES 806 CONNECTOR POLARIZATION



POLARIZATION				
POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

SERIES 806 CONNECTOR TORQUE VALUES

SERIES 806 RECOMMENDED TORQUE VALUES FOR HIGH VIBRATION ENVIRONMENTS						
	Standard In-Lbf		Composite In-Lbf		High Vibration In-Lbf	
Shell Size	Min	Max	Min	Max	Min	Max
8	42	52	20	25	57	68
9	51	61	20	30	66	76
10	63	73	20	30	87	97
11	71	81	20	30	103	113
12	79	89	25	35	107	117
14	105	115	25	35	121	131
16	111	121	25	35	139	149
18	111	121	30	40	139	149
20	111	121	30	40	139	149
22	131	141	35	45	175	185
24	131	141	35	45	175	185

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Outgassing Modification Codes

Series 806 Connectors for Space Flight

The Series 806 is an ideal interconnect choice for space flight equipment. The series 806 features materials, finishes, and performance specifications that meet the MIL-DTL-38999 Class G requirements for space-grade connectors, except with higher density and lower weight.

Outgassing

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. Series 806 connectors contain nonmetallic materials such as rubber, plastic, adhesives and potting compounds which can give off gasses when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. The space industry has adopted a standardized test procedure, ASTM E595, to evaluate outgassing properties. The MIL-DTL-38999 specification Class G also details specific TVM and CVCM values in addition to finish specifications. In Glenair's 186T process, for example, connectors and connector materials are heated to 175° C at a vacuum of 5 X 10^{-6} Torr for 48 hours. Items under test are then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass for Class G rated connectors. Glenair is able to offer outgas processing which assures all materials comply with their respective standards.

Note on Connector Material and Finish Options

Some types of metals are prohibited for space flight. "Pure Tin, Cadmium and Zinc shall not be used as a final finish on EEE parts." (NASA EEE-INST-002 Instructions for EEE Parts Selection, Screening, Qualification, and Derating). NASA recommends electroless nickel or gold finish on connector shells and gold finish for contacts.

Specifying Appropriate NASA Screening

1 ***Choose a NASA EEE-INST-002 (Table 2A) screening level.*** This table contains three screening levels: ***Level 1*** for missions requiring the highest reliability and lowest level of risk, ***Level 2*** for low to moderate risk missions, and ***Level 3*** missions where enhanced screening and inspection is not invoked.

2 ***Choose outgassing process and/or NASA inspection requirements.*** Eight options are available for NASA outgassing, see Table I for details. Cross reference Table II for inspections completed by screening level as required by NASA standards.

3 ***Select the modification code*** from the Table I and add it to the Series 806 part number. Example: 806-044-ME16-10V4BMA-**429.**

TABLE I: OUTGASSING PER NASA SCREENING LEVELS AND D38999, CLASS G

Nasa Screening Level	Screening Type	No Outgas Processing	48 Hour Oven Bake 175° C 100%	Thermal Vacuum* Outgassing 24 Hour 125° C 100%	Mod Code
1	Highest Reliability	●			429B
				●	429C
			●		429J
2	High Reliability	●			429
				●	429A
			●		429K
3	Standard Reliability	‡		●	429L
			●		186

*Thermal vacuum of 10^{-6} Torr. ‡ Use standard part number

TABLE II: NASA EEE-INST-02, TABLE 2A SCREENING LEVELS

Inspection	Level 1	Level 2	Level 3
Visual	100%	100%	100%
Mechanical	2	2	
Dielectric Withstanding Voltage	2	2	
Insulation Resistance	2	2	
Contact Engagement & Separation Force	2		
Coupling Force	2		

Note: required inspection quantity shown. Zero acceptance of failures allowed for all quantities inspected. Inspection is not performed/required for MIL-DTL-38999, Class G

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Performance Specifications

STANDARD MATERIALS AND FINISHES

DESCRIPTION	MATERIAL	FINISH
Pin Contact	Copper alloy	50 microinches gold over nickel
Socket Contact	Copper alloy, with stainless steel hood (22HD and 20HD contacts only)	50 microinches gold over nickel Contact hood: passivate
Insulators	High-grade rigid dielectric	None
Seals	Fluorosilicone/silicone blend, blue	None
EMI Spring	Beryllium copper	Nickel
Shell, Coupling Nut, Jam-nut	Aluminum alloy or stainless steel	See how-to-order tables for finish options
Contact Retention Clip	Beryllium copper	Nickel
Anti-Decoupling Ratchet Spring	Stainless steel	Passivate

PERFORMANCE SPECIFICATION

TEST DESCRIPTION	REQUIREMENT	PROCEDURE
Dielectric withstanding voltage at sea level	Contact Size / Altitude / Voltage 20HD / Sea level / 1800 22HD / Sea level / 1300	MIL-DTL-38999M para. 4.5.11.1 EIA-364-20 Method A 2 mA maximum leakage current Unmated pairs
Dielectric withstanding voltage at altitude	Contact Size / Altitude / Voltage 20HD / 50,000 ft / 1000 20HD / 70,000 ft / 1000 20HD / 100,000 ft / 1000 22HD / 50,000 ft / 800 22HD / 70,000 ft / 800 22HD / 100,000 ft / 800	MIL-DTL-38999M para. 4.5.11.2 EIA-364-20 Method A 2 mA maximum leakage current Mated pairs
Insulation resistance at ambient temperature	5000 megohms minimum	MIL-DTL-38999M Para. 4.5.10.1 EIA-364-21
Insulation resistance at elevated temperature	1000 megohms minimum	MIL-DTL-38999M Para. 4.5.10.2 EIA-364-21
Contact resistance at 25°C, 22HD and 20HD crimp contacts	Wire Size / Test Current Amperes / Maximum Voltage Drop (millivolts): Initial / After Conditioning 20 / 7.5 / 55 / 66 22 / 5 / 73 / 88 24 / 3 / 45 / 54 26 / 2 / 52 / 63 28 / 1.5 / 54 / 65 30 / 1 / 60 / 73	AS39029C Para. 4.7.5 EIA-364-06 Silver-plated wire
Contact resistance at 200° C, 22HD and 20HD crimp contacts	Wire Size / Test Current Amperes / Maximum Voltage Drop (millivolts) 20 / 7.5 / 94 22 / 5 / 125 24 / 3 / 77 26 / 2 / 89 28 / 1.5 / 92 30 / 1 / 103	AS39029C Para. 4.7.5 EIA-364-06 Silver-plated wire
Low level contact resistance, 22HD and 20HD crimp contacts	Wire Size / Maximum Contact Resistance (milliohms): Initial Values / After Conditioning 20 / 9 / 11 22 / 15 / 17 24 / 20 / 23 26 / 31 / 38 28 / 50 / 60 30 / 75 / 88	AS39029C Para. 4.7.4 EIA-364-23 Silver plated wire

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Performance Specifications

PERFORMANCE SPECIFICATION

TEST DESCRIPTION	REQUIREMENT	PROCEDURE
Shell-to-shell conductivity		MIL-DTL-38999M Para. 4.5.25 EIA-364-83

Finish Code	Shell Matl/Fin	Millivolt Drop (mV)
NF	Al/OD Cad	2.5
MT	Al/Ni-PTFE	2.5
ME	Al/EN	1.0
ZR	Al/Zn-Ni	2.5
Z1	SST/pass.	10.0
ZL	SST/Ni	1.0

TEST DESCRIPTION	REQUIREMENT	PROCEDURE
Backshell shield braid to shell conductivity		MIL-DTL-38999M Para. 4.5.25.1 EIA-364-83

Finish Code	Shell Matl/Fin	Millivolt Drop (mV)
NF	Al/OD Cad	5.0
MT	Al/Ni-PTFE	5.0
ME	Al/EN	3.5
ZR	Al/Zn-Ni	5.0
Z1	SST/pass.	15.0
ZL	SST/Ni	3.5

TEST DESCRIPTION	REQUIREMENT	PROCEDURE
Indirect lightning strike	No evidence of damage which could impair proper functioning. Connectors shall meet shell-to-shell conductivity, DWV and coupling torque.	MIL-DTL-38999M Para. 4.5.47 EIA-364-75 10,000 Amps peak current
EMI shielding		MIL-DTL-38999M Para. 4.5.28

Freq. MHz	Leakage Attenuation, (dB) minimum	
	Electroless Nickel Finish	Cadmium, Nickel-PTFE, Zinc-Nickel Finish
100	90	90
200	88	88
300	88	88
400	87	87
800	85	85
1,000	85	85
1,500	76	69
2,000	70	65
3,000	69	61
4,000	68	58
6,000	66	55
10,000	65	50

TEST DESCRIPTION	REQUIREMENT	PROCEDURE
Durability	No evidence of damage which could impair proper functioning following 500 cycles of mating and unmating.	MIL-DTL-38999M Para. 4.5.8 EIA-364-09
Coupling and uncoupling torque		MIL-DTL-38999M Para. 4.5.7 EIA-364-114

Shell size	Maximum Engagement lbs-inch.	Minimum Disengagement in-lb
8	8	2
9	8	2
10	12	2
11	12	2
12	12	2
14	16	2
16	20	3
18	24	3
20	28	3
22	32	5
24	36	5

TEST DESCRIPTION	REQUIREMENT	PROCEDURE
Insert retention	100 pounds per square inch, 25 pound minimum force	MIL-DTL-38999M Para. 4.5.12 EIA-364-35
External bend moment		MIL-DTL-38999M Para. 4.5.16 EIA-364-43

Shell size	Inch-Pound
8	100
9	100
10	100
11	200
12	300
14	400
16	500
18	600
20	700
22	800
24	900

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Performance Specifications

PERFORMANCE SPECIFICATION		
TEST DESCRIPTION	**REQUIREMENT**	**PROCEDURE**
Contact retention	Contact size: 22HD — Pounds ± 10 percent: 10 Contact size: 20HD — Pounds ± 10 percent: 10	MIL-DTL-38999M Para. 4.5.20.1 EIA-364-29
Magnetic permeability	2 µ maximum	MIL-DTL-38999M Para. 4.5.48 EIA-364-54
Contact engaging /separation force	Contact forces shall meet AS39029 Table 9 requirements	AS39029C Para. 4.7.6 EIA-364-37
Temperature cycling (thermal shock)	No evidence of damage detrimental to the function of the connector	MIL-DTL-38999M Para. 4.5.4 EIA-364-32 Mated connectors, -65° C to +200° C
Random vibration, ambient temperature, 49g rms	No discontinuities of 1 microsecond or longer	MIL-DTL-38999M Para. 4.5.23.2.4 EIA-364-28 Test Condition V
Sine vibration, 60g	No discontinuities of 1 microsecond or longer	MIL-DTL-38999M Para. 4.5.23.2.1 with Figure 24 accessory load 12 hours in each of 3 axes 4 hours at ambient, 4 hours at -55° C, 4 hours at +200° C
Mechanical shock, 300g	No discontinuities of 1 microsecond or longer	MIL-DTL-38999M Para. 4.5.24.1 EIA-364-27
Humidity, cyclic	Meet DWV and IR test	MIL-DTL-38999M Para. 4.5.26 EIA-364-31 Method 4 10 cycles, 10 days, 25 – 65°C 80 – 100% RH
Ozone exposure	No evidence of damage detrimental to the function of the connector	MIL-DTL-38999M Para. 4.5.29 EIA-364-14
Thermal vacuum outgassing	All nonmetallic materials shall not exceed 1.0% Total Mass Loss and 0.1% Total Volatile Condensable Materials. Applicable only to connectors that have been subjected to optional thermal vacuum outgassing.	MIL-DTL-38999M Para. 4.5.42 ASTM E595

806-044 VersaLink Plug

PART NUMBER DEVELOPMENT

Sample Part Number	806-044	-ME	16-10V4	B	M	A
Series / Basic No.	**806-044** = Plug					
Material / Finish	**ME** = Aluminum alloy, electroless nickel (96 hour salt spray) **MT** = Aluminum alloy, nickel-PTFE **NF** = Aluminum alloy, cad/O.D. Over electroless nickel **ZR** = Aluminum alloy, zinc nickel, black (trivalent chromium) **Z1** = Aluminum alloy, stainless steel passivated **ZL** = Aluminum alloy, electro-deposited nickel					
Insert Layout	See Insert Arrangement Table (See page 13–14 for layouts)					
Contact Gender	**A** = Pin, less contact **B** = Socket, less contact					
Shell Style	**M** = Metric thread **B** = Banding platform					
Polarization	**A**, **B**, **C**, **D**, **E**, **F**; see Polarization Table					

MATERIAL / FINISH

- Shell: see part number development
- Pin contact: copper alloy / 50µ gold over nickel
- Socket contact: copper alloy with stainless steel hood (22HD and 20HD) / 50µ gold over nickel, contact hood passivate
- Insulators: high-grade rigid dielectric
- Seals: fluorosilicone/silicone blend
- EMI spring: beryllium copper / nickel
- Contact retention clip: copper alloy / nickel
- Anti-decoupling ratchet spring: stainless steel / passivate

PERFORMANCE SPECIFICATIONS

- Current rating for 20HD and 22HD
  20 AWG: 7.5 amps
  22 AWG: 5 amps
- DWV
  20HD: 1800 VAC at sea level
  22HD: 1300 VAC at sea level
  VersaLink: 500 VAC at sea level
- Insulation resistance:
  5000 MΩ min. at ambient temperature
  1000 MΩ min. at elevated temperature
- Operating temperature: -65° to +200° C

NOTES

1. Glenair strongly recommends the use of strain relief 620VS090 or equivalent when using a metric accessory thread shell. Glenair strongly recommends overmolding when using a banding porch shell.
2. Consult factory for use with other cables.
3. Groove for use with overmold strain relief or 809-060 heat shrink boots.
4. Terminate shield with Glenair BandMaster ATS tool 601-108 & Glenair Nanoband.
5. VersaLink contacts are purchased separately. See following drawings for more information:
   VersaLink: 853-045 & 853-046
   22HD: 850-094 & 850-095
   20HD: 809-204 & 809-205
   See 8574-0001 for pre-terminated VersaLink contacts. Contact factory for complete cable assemblies.
6. Plug connectors mate with 806-045 thru 806-049 of the same arrangement, polarization, and opposite gender.
7. Blue color band indicates rear release retention.

INSERT ARRANGEMENT

SHELL SIZE-LAYOUT	NUMBER OF CONTACTS		
	VersaLink	22HD	20HD
8-1V[1]	1		
9-2V[2]	2		
10-2V2	2		2
11-4V[3]	4		
11-2V9[4]	2	9	
12-4V4	4	4	
14-6V7	6	7	
14-4V15[5]	4	15	
16-10V4	10	4	
16-8V10	8	10	
18-14V4	14	4	
18-8V31	8	31	
20-18V8	18	8	
22-25V4	25	4	
22-16V19	16	19	
24-32V	32		
24-16V66	16	66	

Support for:
1. 10G SPE
2. SATA 3
3. 40G Ethernet
4. USB 3.1 Gen 2
5. USB 3.2, USB 4, HDMI, DP, DVI Single Link

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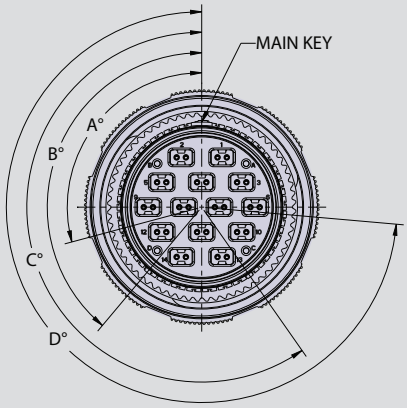
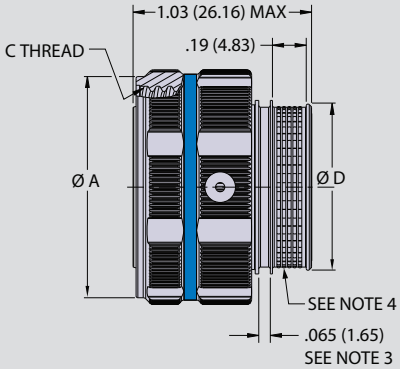
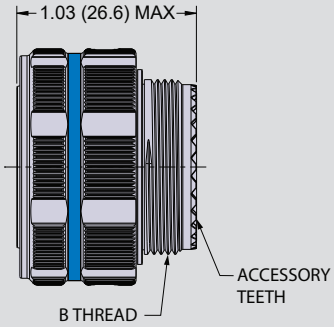
806-044 VersaLink Plug





BAND PLATFORM



ACCESSORY THREAD

POLARIZATION				
POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

CONNECTOR DIMENSIONS				
SHELL SIZE	A MAX	B THREAD	C MATING THREAD	D
8	0.676 (17.17)	M10 X 1-6g.100R	.5000-.067P-.2L-TS-2B	0.327 (8.31)
9	0.771 (19.58)	M12 X 1-6g.100R	.5625-.067P-.2L-TS-2B	0.406 (10.31)
10	0.832 (21.13)	M14 X 1-6g.100R	.6250-.067P-.2L-TS-2B	0.484 (12.29)
11	0.890 (22.61)	M15 X 1-6g.100R	.6875-.067P-.2L-TS-2B	0.524 (13.31)
12	0.950 (24.13)	M17 X 1-6g.100R	.7500-.067P-.2L-TS-2B	0.603 (15.32)
14	1.110 (28.19)	M19 X 1-6g.100R	.8750-.067P-.2L-TS-2B	0.681 (17.30)
16	1.170 (29.72)	M22 X 1-6g.100R	1.000-.067P-.2L-TS-2B	0.782 (19.86)
18	1.350 (34.29)	M25 X 1-6g.100R	1.1250-.067P-.2L-TS-2B	0.899 (22.83)
20	1.470 (37.34)	M28 X 1-6g.100R	1.250-.067P-.2L-TS-2B	1.043 (26.49)
22	1.600 (40.64)	M31 X 1-6g.100R	1.3750-.067P-.2L-TS-2B	1.155 (29.34)
24	1.710 (43.43)	M34 X 1-6g.100R	1.500-.067P-.2L-TS-2B	1.273 (32.33)

VERSALINK CONTACTS SOLD SEPARATELY	
Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY		
#22HD Pin	Wire size #22–#28	**850-094-1**
#22HD Pin	Wire size #26–#30	**850-094-2**
#22HD Socket	Wire size #22–#28	**850-095-1**
#22HD Socket	Wire size #26–#30	**850-095-2**
#20HD Pin	Wire size #20–#24	**809-204**
#20HD Socket	Wire size #20–#24	**809-205**

COMPATIBLE SPEEDLINE CABLE	
Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

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806-045 VersaLink Square Flange Receptacle

PART NUMBER DEVELOPMENT

Sample Part Number	806-045	-ME	16-10V4	A	M	T	A
Series / Basic No.	**806-045** = Square flange receptacle						
Material / Finish	**ME** = Aluminum alloy, electroless nickel (96 hour salt spray) **MT** = Aluminum alloy, nickel-PTFE **NF** = Aluminum alloy, cad/O.D. Over electroless nickel **ZR** = Aluminum alloy, zinc nickel, black (trivalent chromium) **Z1** = Aluminum alloy, stainless steel passivated **ZL** = Aluminum alloy, electro-deposited nickel						
Insert Layout	See Insert Arrangement Table (See page 13–14 for layouts)						
Contact Gender	**A** = Pin, less contact **B** = Socket, less contact						
Shell Style	**M** = Metric thread **B** = Banding platform						
Panel Mount Hole Style	**T** = Thru Hole **C** = Clinch Nut, 4-40 Thd, M45938/6-4C						
Polarization	**A**, **B**, **C**, **D**, **E**, **F**; see Polarization Table						

MATERIAL AND FINISH

- Shell: see part number development
- Pin contact: copper alloy / 50µ gold over nickel
- Socket contact: copper alloy with stainless steel hood (22HD and 20HD) / 50µ gold over nickel, contact hood passivate
- Insulators: high-grade rigid dielectric
- Seals: fluorosilicone/silicone blend
- Contact retention clip: copper alloy / nickel

PERFORMANCE SPECIFICATIONS

- Current rating for 20HD and 22HD
  20 AWG: 7.5 amps
  22 AWG: 5 amps
- DWV
  20HD: 1800 VAC at sea level
  22HD: 1300 VAC at sea level
  VersaLink: 500 VAC at sea level
- Insulation resistance:
  5000 MΩ min. at ambient temperature
  1000 MΩ min. at elevated temperature
- Operating temperature: -65° to +200° C

NOTES

1. Glenair strongly recommends the use of strain relief 620VS090 or equivalent when using a metric accessory thread shell. Glenair strongly recommends overmolding when using a banding porch shell.
2. Consult factory for use with other cables.
3. Groove for use with overmold strain relief or 809-060 heat shrink boots.
4. Terminate shield with Glenair BandMaster ATS tool 601-108 & Glenair Nanoband.
5. VersaLink contacts are purchased separately. See following drawings for more information:
   VersaLink: 853-045 & 853-046
   22HD: 850-094 & 850-095
   20HD: 809-204 & 809-205
   See 8574-0001 for pre-terminated VersaLink contacts. Contact factory for complete cable assemblies.
6. Receptacle mates with 806-044 of the same arrangement, polarization, and opposite gender.
7. Blue color band indicates rear release retention.
8. Red color band full mate indicator.

INSERT ARRANGEMENT

SHELL SIZE-LAYOUT	NUMBER OF CONTACTS		
	VersaLink	22HD	20HD
8-1V[1]	1		
9-2V[2]	2		
10-2V2	2		2
11-4V[3]	4		
11-2V9[4]	2	9	
12-4V4	4	4	
14-6V7	6	7	
14-4V15[5]	4	15	
16-10V4	10	4	
16-8V10	8	10	
18-14V4	14	4	
18-8V31	8	31	
20-18V8	18	8	
22-25V4	25	4	
22-16V19	16	19	
24-32V	32		
24-16V66	16	66	

Support for:
1. 10G SPE
2. SATA 3
3. 40G Ethernet
4. USB 3.1 Gen 2
5. USB 3.2, USB 4, HDMI, DP, DVI Single Link

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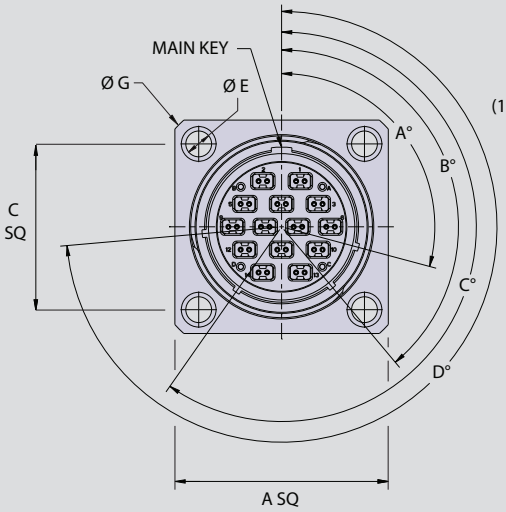
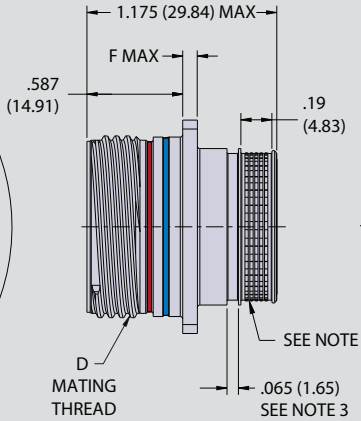
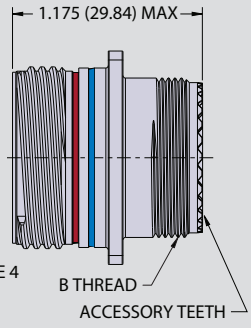
806-045 VersaLink Square Flange Receptacle

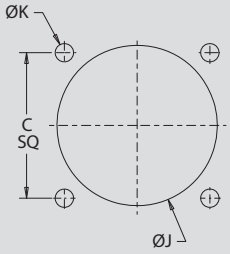




BAND PLATFORM



ACCESSORY THREAD



PANEL CUTOUT DIMENSIONS

CONNECTOR DIMENSIONS

SHELL SIZE	A MAX	B THREAD	C SQ	D MATING THREAD	ØE Thru Holes	F MAX	ØG	ØH
8	0.822 (20.88)	M10 X 1-6g.100R	0.531 (13.49)	.5000-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.040 (26.42)	0.327 (8.31)
9	0.855 (21.72)	M12 X 1-6g.100R	0.594 (15.09)	.5625-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.130 (28.70)	0.406 (10.31)
10	0.913 (23.19)	M14 X 1-6g.100R	0.625 (15.88)	.6250-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.174 (29.82)	0.484 (12.29)
11	0.960 (24.38)	M15 X 1-6g.100R	0.670 (17.02)	.6875-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.200 (30.48)	0.524 (13.31)
12	1.040 (26.42)	M17 X 1-6g.100R	0.765 (19.43)	.7500-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.354 (34.39)	0.603 (15.32)
14	1.133 (28.78)	M19 X 1-6g.100R	0.859 (21.82)	.8750-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.510 (38.35)	0.681 (17.30)
16	1.227 (31.17)	M22 X 1-6g.100R	0.938 (23.83)	1.000-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.620 (41.15)	0.782 (19.86)
18	1.320 (33.53)	M25 X 1-6g.100R	1.016 (25.81)	1.1250-.067P-.2L-TS-2B	0.128 (3.25)	0.100 (2.54)	1.784 (45.31)	0.899 (22.83)
20	1.444 (36.68)	M28 X 1-6g.100R	1.109 (28.17)	1.250-.067P-.2L-TS-2B	0.154 (3.91)	0.125 (3.18)	1.910 (48.51)	1.043 (26.49)
22	1.570 (39.88)	M31 X 1-6g.100R	1.203 (30.56)	1.3750-.067P-.2L-TS-2B	0.154 (3.91)	0.125 (3.18)	2.083 (52.91)	1.155 (29.34)
24	1.696 (43.08)	M34 X 1-6g.100R	1.312 (33.32)	1.500-.067P-.2L-TS-2B	0.154 (3.91)	0.125 (3.18)	2.200 (55.88)	1.273 (32.33)

POLARIZATION

POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

PANEL CUTOUT DIMENSIONS

SHELL SIZE	ØJ	ØK W/ CLINCH NUT	ØK W/O CLINCH NUT	SHELL SIZE	ØJ	ØK W/ CLINCH NUT	ØK W/O CLINCH NUT
8	0.505 (12.83)	0.128 (3.25)	0.128 (3.25)	16	1.010 (25.65)	0.128 (3.25)	0.128 (3.25)
9	0.572 (14.53)	0.128 (3.25)	0.128 (3.25)	18	1.120 (28.45)	0.128 (3.25)	0.128 (3.25)
10	0.640 (16.26)	0.128 (3.25)	0.128 (3.25)	20	1.270 (32.26)	0.128 (3.25)	0.154 (3.91)
11	0.707 (17.96)	0.128 (3.25)	0.128 (3.25)	22	1.395 (35.43)	0.128 (3.25)	0.154 (3.91)
12	0.762 (19.35)	0.128 (3.25)	0.128 (3.25)	24	1.520 (38.61)	0.128 (3.25)	0.154 (3.91)
14	0.885 (22.48)	0.128 (3.25)	0.128 (3.25)				

VERSALINK CONTACTS SOLD SEPARATELY

Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY

#22HD Pin	Wire size #22–#28	**850-094-1**
#22HD Pin	Wire size #26–#30	**850-094-2**
#22HD Socket	Wire size #22–#28	**850-095-1**
#22HD Socket	Wire size #26–#30	**850-095-2**
#20HD Pin	Wire size #20–#24	**809-204**
#20HD Socket	Wire size #20–#24	**809-205**

COMPATIBLE SPEEDLINE CABLE

Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

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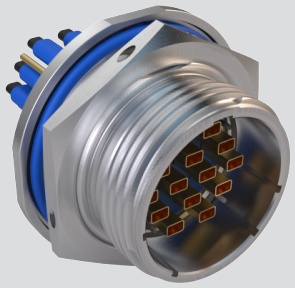
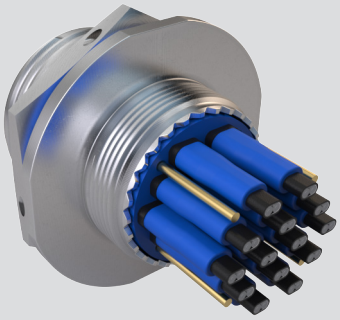
Dimensions in Inch (millimeter) are subject to change without notice.

806-046 VersaLink Jam-Nut Receptacle





PART NUMBER DEVELOPMENT

Sample Part Number	806-046	-ME	18-14V4	A	M	A
Series / Basic No.	**806-046** = Jam-nut receptacle					
Material / Finish	**ME** = Aluminum alloy, electroless nickel (96 hour salt spray) **MT** = Aluminum alloy, nickel-PTFE **NF** = Aluminum alloy, cad/O.D. Over electroless nickel **ZR** = Aluminum alloy, zinc nickel, black (trivalent chromium) **Z1** = Aluminum alloy, stainless steel passivated **ZL** = Aluminum alloy, electro-deposited nickel					
Insert Layout	See Insert Arrangement Table (See page 13–14 for layouts)					
Contact Gender	**A** = Pin, less contact **B** = Socket, less contact					
Shell Style	**M** = Metric thread **B** = Banding platform					
Polarization	**A, B, C, D, E, F;** see Polarization Table					

MATERIAL AND FINISH

- Shell: see part number development
- Pin contact: copper alloy / 50µ gold over nickel
- Socket contact: copper alloy with stainless steel hood (22HD and 20HD) / 50µ gold over nickel, contact hood passivate
- Insulators: high-grade rigid dielectric
- Seals: fluorosilicone/silicone blend
- Contact retention clip: copper alloy / nickel

PERFORMANCE SPECIFICATIONS

- Current rating for 20HD and 22HD
  20 AWG: 7.5 amps
  22 AWG: 5 amps
- DWV
  20HD: 1800 VAC at sea level
  22HD: 1300 VAC at sea level
  VersaLink: 500 VAC at sea level
- Insulation resistance:
  5000 MΩ min. at ambient temperature
  1000 MΩ min. at elevated temperature
- Operating temperature: -65° to +200° C

NOTES

1. Glenair strongly recommends the use of strain relief 620VS090 or equivalent when using a metric accessory thread shell. Glenair strongly recommends overmolding when using a banding porch shell.
2. Consult factory for use with other cables.
3. Groove for use with overmold strain relief or 809-060 heat shrink boots.
4. Terminate shield with Glenair Bandmaster ATS tool 601-108 & Glenair Nanoband.
5. VersaLink contacts are purchased separately. See following drawings for more information:
   VersaLink: 853-045 & 853-046
   22HD: 850-094 & 850-095
   20HD: 809-204 & 809-205
   See 8574-0001 for pre-terminated VersaLink contacts. Contact factory for complete cable assemblies.
6. Receptacle mates with 806-044 of the same arrangement, polarization, and opposite gender.
7. Blue color band indicates rear release retention.
8. Red color band full mate indicator.

INSERT ARRANGEMENT

SHELL SIZE-LAYOUT	NUMBER OF CONTACTS		
	VersaLink	22HD	20HD
8-1V[1]	1		
9-2V[2]	2		
10-2V2	2		2
11-4V[3]	4		
11-2V9[4]	2	9	
12-4V4	4	4	
14-6V7	6	7	
14-4V15[5]	4	15	
16-10V4	10	4	
16-8V10	8	10	
18-14V4	14	4	
18-8V31	8	31	
20-18V8	18	8	
22-25V4	25	4	
22-16V19	16	19	
24-32V	32		
24-16V66	16	66	

Support for:
1. 10G SPE
2. SATA 3
3. 40G Ethernet
4. USB 3.1 Gen 2
5. USB 3.2, USB 4, HDMI, DP, DVI Single Link

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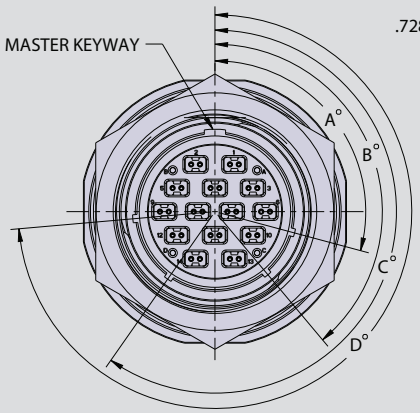
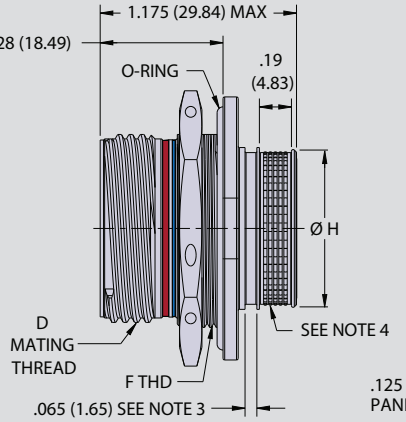
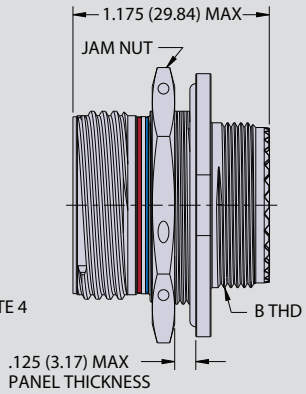
Dimensions in Inch (millimeter) are subject to change without notice.

806-046 VersaLink Jam-Nut Receptacle

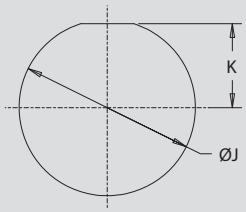




BAND PLATFORM



ACCESSORY THREAD



RECOMMENDED PANEL CUT

CONNECTOR DIMENSIONS

SHELL SIZE	A MAX	B THREAD	C MAX	D MATING THREAD	E MAX	F THREAD	H
8	0.980 (24.89)	M10 X 1-6g.100R	0.920 (23.37)	.5000-.067P-.2L-TS-2B	0.100	M15 X 1-6g.100R	0.327 (8.31)
9	1.040 (26.42)	M12 X 1-6g.100R	0.980 (24.89)	.5625-.067P-.2L-TS-2B	0.100	M16 X 1-6g.100R	0.406 (10.31)
10	1.110 (28.19)	M14 X 1-6g.100R	1.050 (26.67)	.6250-.067P-.2L-TS-2B	0.100	M18 X 1-6g.100R	0.484 (12.29)
11	1.160 (29.46)	M15 X 1-6g.100R	1.110 (28.19)	.6875-.067P-.2L-TS-2B	0.100	M19 X 1-6g.100R	0.524 (13.31)
12	1.230 (31.24)	M17 X 1-6g.100R	1.170 (29.72)	.7500-.067P-.2L-TS-2B	0.100	M21 X 1-6g.100R	0.603 (15.32)
14	1.360 (34.54)	M19 X 1-6g.100R	1.320 (33.53)	.8750-.067P-.2L-TS-2B	0.100	M24 X 1-6g.100R	0.681 (17.30)
16	1.515 (38.48)	M22 X 1-6g.100R	1.444 (36.68)	1.0000-.067P-.2L-TS-2B	0.100	M27 X 1-6g.100R	0.782 (19.86)
18	1.610 (40.89)	M25 X 1-6g.100R	1.570 (39.88)	1.1250-.067P-.2L-TS-2B	0.100	M30 X 1-6g.100R	0.899 (22.83)
20	1.850 (46.99)	M28 X 1-6g.100R	1.760 (44.70)	1.2500-.067P-.2L-TS-2B	0.128	M34 X 1-6g.100R	1.043 (26.49)
22	2.010 (51.05)	M31 X 1-6g.100R	1.913 (48.59)	1.3750-.067P-.2L-TS-2B	0.128	M37 X 1-6g.100R	1.155 (29.34)
24	2.195 (55.75)	M34 X 1-6g.100R	2.070 (52.58)	1.5000-.067P-.2L-TS-2B	0.128	M41 X 1-6g.100R	1.273 (32.33)

POLARIZATION

POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

PANEL CUTOUT DIMENSIONS

SHELL SIZE	J	K
8	0.601 (15.27)	0.256 (6.50)
9	0.640 (16.26)	0.287 (7.29)
10	0.719 (18.26)	0.318 (8.08)
11	0.759 (19.28)	0.350 (8.89)
12	0.837 (21.26)	0.381 (9.68)
14	0.955 (24.26)	0.443 (11.25)

PANEL CUTOUT DIMENSIONS

SHELL SIZE	J	K
16	1.073 (27.25)	0.505 (12.83)
18	1.192 (30.28)	0.568 (14.43)
20	1.349 (34.26)	0.630 (16.00)
22	1.467 (37.26)	0.693 (17.60)
24	1.624 (41.25)	0.775 (19.69)

VERSALINK CONTACTS SOLD SEPARATELY

Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY

#22HD Pin	Wire size #22–#28	**850-094-1**
#22HD Pin	Wire size #26–#30	**850-094-2**
#22HD Socket	Wire size #22–#28	**850-095-1**
#22HD Socket	Wire size #26–#30	**850-095-2**
#20HD Pin	Wire size #20–#24	**809-204**
#20HD Socket	Wire size #20–#24	**809-205**

COMPATIBLE SPEEDLINE CABLE

Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

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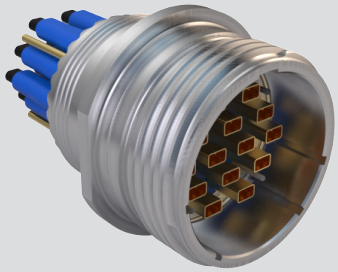
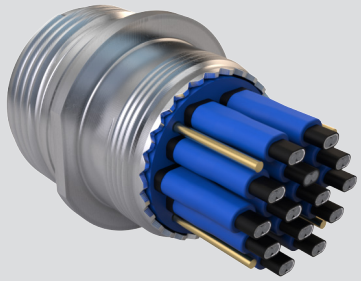
Dimensions in Inch (millimeter) are subject to change without notice.

806-047 VersaLink In-Line Receptacle





PART NUMBER DEVELOPMENT

Sample Part Number	806-047	-ME	18-14V4	A	M	A
Series / Basic No.	**806-047** = In-line receptacle					
Material / Finish	**ME** = Aluminum alloy, electroless nickel (96 hour salt spray) **MT** = Aluminum alloy, nickel-PTFE **NF** = Aluminum alloy, cad/O.D. Over electroless nickel **ZR** = Aluminum alloy, zinc nickel, black (trivalent chromium) **Z1** = Aluminum alloy, stainless steel passivated **ZL** = Aluminum alloy, electro-deposited nickel					
Insert Layout	See Insert Arrangement Table (See page 13–14 for layouts)					
Contact Gender	**A** = Pin, less contact **B** = Socket, less contact					
Shell Style	**M** = Metric accessory thread **B** = Banding platform					
Polarization	**A**, **B**, **C**, **D**, **E**, **F**; see Polarization Table					

MATERIAL AND FINISH

- Shell: see part number development
- Pin contact: copper alloy / 50µ gold over nickel
- Socket contact: copper alloy with stainless steel hood (22HD and 20HD) / 50µ gold over nickel, contact hood passivate
- Insulators: high-grade rigid dielectric
- Seals: fluorosilicone/silicone blend
- Contact retention clip: copper alloy / nickel

PERFORMANCE SPECIFICATIONS

- Current rating for 20HD and 22HD
  20 AWG: 7.5 amps
  22 AWG: 5 amps
- DWV
  20HD: 1800 VAC at sea level
  22HD: 1300 VAC at sea level
  VersaLink: 500 VAC at sea level
- Insulation resistance:
  5000 MΩ min. at ambient temperature
  1000 MΩ min. at elevated temperature
- Operating temperature: -65° to +200° C

NOTES

1. Glenair strongly recommends the use of strain relief 620VS090 or equivalent when using a metric accessory thread shell. Glenair strongly recommends overmolding when using a banding porch shell.
2. Consult factory for use with other cables.
3. Groove for use with overmold strain relief or 809-060 heat shrink boots.
4. Terminate shield with Glenair Bandmaster ATS tool 601-108 & Glenair Nanoband.
5. VersaLink contacts are purchased separately. See following drawings for more information:
   VersaLink: 853-045 & 853-046
   22HD: 850-094 & 850-095
   20HD: 809-204 & 809-205
   See 8574-0001 for pre-terminated VersaLink contacts. Contact factory for complete cable assemblies.
6. Receptacle mates with 806-044 of the same arrangement, polarization, and opposite gender. See catalog for contact tools.
7. Blue color band indicates rear release retention.
8. Red color band indicates full mate.

INSERT ARRANGEMENT

SHELL SIZE-LAYOUT	NUMBER OF CONTACTS		
	VersaLink	22HD	20HD
8-1V[1]	1		
9-2V[2]	2		
10-2V2	2		2
11-4V[3]	4		
11-2V9[4]	2	9	
12-4V4	4	4	
14-6V7	6	7	
14-4V15[5]	4	15	
16-10V4	10	4	
16-8V10	8	10	
18-14V4	14	4	
18-8V31	8	31	
20-18V8	18	8	
22-25V4	25	4	
22-16V19	16	19	
24-32V	32		
24-16V66	16	66	

Support for:
1. 10G SPE
2. SATA 3
3. 40G Ethernet
4. USB 3.1 Gen 2
5. USB 3.2, USB 4, HDMI, DP, DVI Single Link

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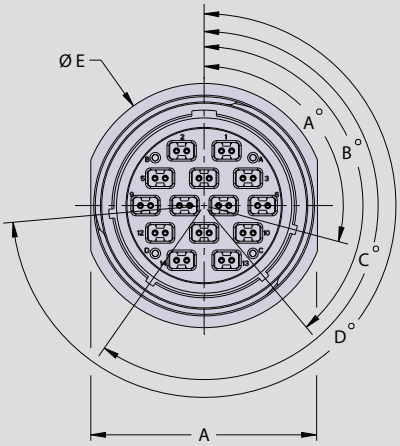
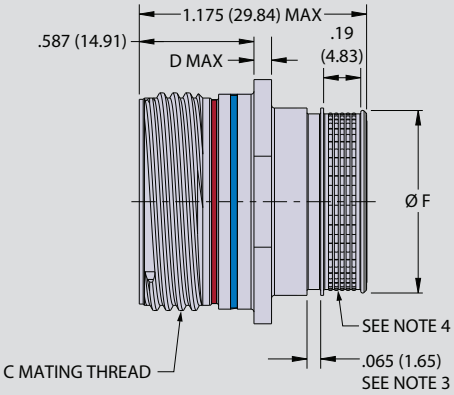
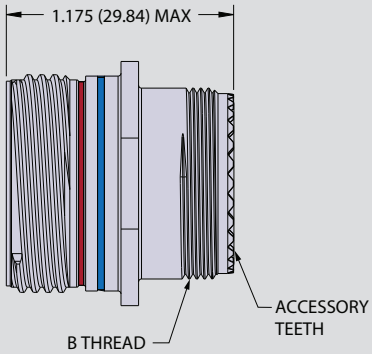
806-047 VersaLink In-Line Receptacle





BAND PLATFORM



ACCESSORY THREAD

CONNECTOR DIMENSIONS						
SHELL SIZE	A ±0.010	B THREAD	C MATING THREAD	D MAX	E	F
8	0.545 (13.84)	M10 X 1-6g.100R	.5000-.067P-.2L-TS-2B	0.100 (2.54)	0.635 (16.13)	0.327 (8.31)
9	0.612 (15.54)	M12 X 1-6g.100R	.5625-.067P-.2L-TS-2B	0.100 (2.54)	0.702 (17.83)	0.406 (10.31)
10	0.680 (17.27)	M14 X 1-6g.100R	.6250-.067P-.2L-TS-2B	0.100 (2.54)	0.770 (19.56)	0.484 (12.29)
11	0.747 (18.97)	M15 X 1-6g.100R	.6875-.067P-.2L-TS-2B	0.100 (2.54)	0.837 (21.26)	0.524 (13.31)
12	0.803 (20.40)	M17 X 1-6g.100R	.7500-.067P-.2L-TS-2B	0.100 (2.54)	0.893 (22.68)	0.603 (15.32)
14	0.925 (23.50)	M19 X 1-6g.100R	.8750-.067P-.2L-TS-2B	0.100 (2.54)	1.015 (25.78)	0.681 (17.30)
16	1.050 (26.67)	M22 X 1-6g.100R	1.0000-.067P-.2L-TS-2B	0.100 (2.54)	1.140 (28.96)	0.782 (19.86)
18	1.160 (29.46)	M25 X 1-6g.100R	1.1250-.067P-.2L-TS-2B	0.100 (2.54)	1.250 (31.75)	0.899 (22.83)
20	1.310 (33.27)	M28 X 1-6g.100R	1.2500-.067P-.2L-TS-2B	0.125 (3.18)	1.400 (35.56)	1.043 (26.49)
22	1.435 (36.45)	M31 X 1-6g.100R	1.3750-.067P-.2L-TS-2B	0.125 (3.18)	1.525 (38.74)	1.155 (29.34)
24	1.560 (39.62)	M34 X 1-6g.100R	1.5000-.067P-.2L-TS-2B	0.125 (3.18)	1.650 (41.91)	1.273 (32.33)

POLARIZATION				
POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

VERSALINK CONTACTS SOLD SEPARATELY	
Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY		
#22HD Pin	Wire size #22–#28	**850-094-1**
#22HD Pin	Wire size #26–#30	**850-094-2**
#22HD Socket	Wire size #22–#28	**850-095-1**
#22HD Socket	Wire size #26–#30	**850-095-2**
#20HD Pin	Wire size #20–#24	**809-204**
#20HD Socket	Wire size #20–#24	**809-205**

COMPATIBLE SPEEDLINE CABLE	
Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

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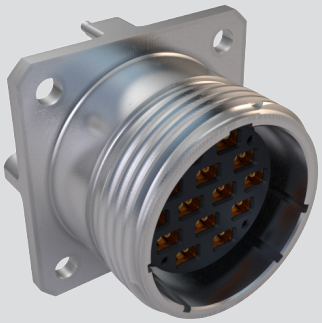
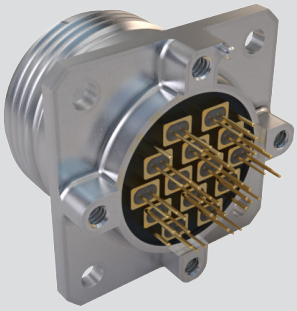
Dimensions in Inch (millimeter) are subject to change without notice.

806-048 VersaLink PCB Square Flange Receptacle





PART NUMBER DEVELOPMENT

Sample Part Number	806-048	-ME	18-14V4	S	T	A
Series / Basic No.	**806-048** = PCB square flange receptacle					
Material / Finish	**ME** = Aluminum alloy, electroless nickel (96 hour salt spray) **MT** = Aluminum alloy, nickel-PTFE **NF** = Aluminum alloy, cad/O.D. over electroless nickel **ZR** = Aluminum alloy, zinc nickel, black (trivalent chromium) **Z1** = Aluminum alloy, stainless steel passivated (trivalent chromium) **ZL** = Aluminum alloy, electro-deposited nickel					
Insert Layout	See Insert Arrangement Table (See page 13–14 for layouts)					
Contact Gender	**P** = Pin **S** = Socket					
Panel Mount Hole Style	**T** = Thru hole **C** = Clinch nut, 4-40 Thd, M45938/6-4C					
Polarization	**A**, **B**, **C**, **D**, **E**, **F**; see Polarization Table					

MATERIALS

- Shell: see part number development
- Pin contact: copper alloy / 50µ gold over nickel
- Socket contact: copper alloy with stainless steel hood (22HD and 20HD) / 50µ gold over nickel, contact hood passivate
- Insulators: high-grade rigid dielectric
- Seals: fluorosilicone/silicone blend
- Potting: epoxy

PERFORMANCE SPECIFICATIONS

- Current rating for 20HD and 22HD
  20 AWG: 7.5 amps
  22 AWG: 5 amps
- DWV
  20HD: 1800 VAC at sea level
  22HD: 1300 VAC at sea level
  VersaLink: 500 VAC at sea level
- Insulation resistance:
  5000 MΩ min. at ambient temperature
  1000 MΩ min. at elevated temperature
- Operating temperature: -65° to +200° C

NOTES

1. Integral PCB stand off 4x 4-40 UNC, .156 minimum thread and locating post.
2. Connector is backfilled with epoxy, contacts are non-removable.
3. Receptacle connector mates with 806-044 of the same arrangement, polarization, and opposite gender.
4. Refer to Refer to Series 806 PCB footprints on page 38.
5. Red band indicates full mate.

INSERT ARRANGEMENT

SHELL SIZE-LAYOUT	NUMBER OF CONTACTS		
	VersaLink	22HD	20HD
8-1V[1]	1		
9-2V[2]	2		
10-2V2	2		2
11-4V[3]	4		
11-2V9[4]	2	9	
12-4V4	4	4	
14-6V7	6	7	
14-4V15[5]	4	15	
16-10V4	10	4	
16-8V10	8	10	
18-14V4	14	4	
18-8V31	8	31	
20-18V8	18	8	
22-25V4	25	4	
22-16V19	16	19	
24-32V	32		
24-16V66	16	66	

Support for:
1. 10G SPE
2. SATA 3
3. 40G Ethernet
4. USB 3.1 Gen 2
5. USB 3.2, USB 4, HDMI, DP, DVI Single Link

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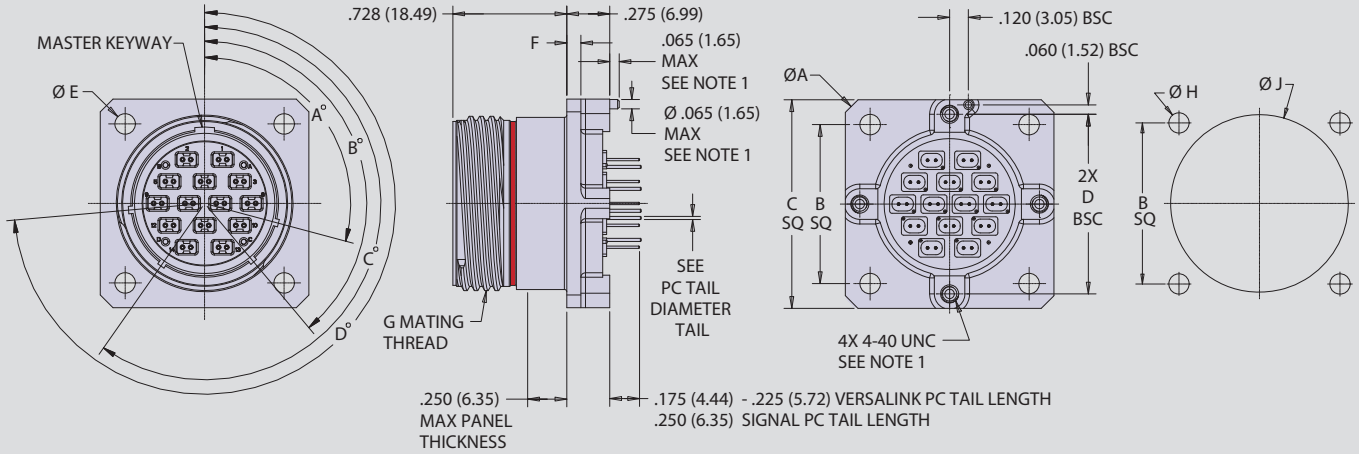
Dimensions in Inch (millimeter) are subject to change without notice.

806-048 VersaLink PCB Square Flange Receptacle



DIMENSIONS							
SHELL SIZE	Ø A MAX	B	C MAX	D	Ø E THRU HOLES	F FLANGE	G MATING THREAD
8	1.040 (26.42)	0.531 (13.49)	0.822 (20.88)	0.534 (13.56)	0.128 (3.25)	0.100 (2.54)	.5000-.067P-.2L-TS-2B
9	1.130 (28.70)	0.594 (15.09)	0.885 (22.48)	0.579 (14.71)	0.128 (3.25)	0.100 (2.54)	.5625-.067P-.2L-TS-2B
10	1.174 (29.82)	0.625 (15.88)	0.913 (23.19)	0.679 (17.25)	0.128 (3.25)	0.100 (2.54)	.6250-.067P-.2L-TS-2B
11	1.240 (31.50)	0.670 (17.02)	0.960 (24.38)	0.734 (18.64)	0.128 (3.25)	0.100 (2.54)	.6875-.067P-.2L-TS-2B
12	1.354 (34.39)	0.765 (19.43)	1.040 (26.42)	0.804 (20.42)	0.128 (3.25)	0.100 (2.54)	.7500-.067P-.2L-TS-2B
14	1.510 (38.35)	0.859 (21.82)	1.133 (28.78)	0.891 (22.63)	0.128 (3.25)	0.100 (2.54)	.8750-.067P-.2L-TS-2B
16	1.620 (41.15)	0.938 (23.83)	1.242 (31.55)	1.049 (26.64)	0.128 (3.25)	0.100 (2.54)	1.0000-.067P-.2L-TS-2B
18	1.784 (45.31)	1.016 (25.81)	1.343 (34.11)	1.148 (29.16)	0.128 (3.25)	0.100 (2.54)	1.1250-.067P-.2L-TS-2B
20	1.910 (48.51)	1.109 (28.17)	1.444 (36.68)	1.252 (31.80)	0.154 (3.91)	0.125 (3.18)	1.2500-.067P-.2L-TS-2B
22	2.083 (52.91)	1.203 (30.56)	1.570 (39.88)	1.369 (34.77)	0.154 (3.91)	0.125 (3.18)	1.3750-.067P-.2L-TS-2B
24	2.200 (55.88)	1.312 (33.32)	1.704 (43.28)	1.509 (38.33)	0.154 (3.91)	0.125 (3.18)	1.5000-.067P-.2L-TS-2B

POLARIZATION				
POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

CUTOUT PANEL DIMENSIONS			
		ØH	
SHELL SIZE	ØJ	WITH CLINCH NUT	WITHOUT CLINCH NUT
8	0.509 (12.93)	0.128 (3.25)	0.128 (3.25)
9	0.577 (14.66)	0.128 (3.25)	0.128 (3.25)
10	0.645 (16.38)	0.128 (3.25)	0.128 (3.25)
11	0.712 (18.08)	0.128 (3.25)	0.128 (3.25)
12	0.768 (19.51)	0.128 (3.25)	0.128 (3.25)
14	0.890 (22.61)	0.128 (3.25)	0.128 (3.25)
16	1.015 (25.78)	0.128 (3.25)	0.128 (3.25)
18	1.125 (28.58)	0.128 (3.25)	0.128 (3.25)
20	1.275 (32.39)	0.128 (3.25)	0.154 (3.91)
22	1.400 (35.56)	0.128 (3.25)	0.154 (3.91)
24	1.525 (38.74)	0.128 (3.25)	0.154 (3.91)

PC TAIL DIAMETERS	
CONTACT	MAX PC TAIL DIAMETER
#20	0.030 (0.76)
#22	0.020 (0.51)
VL SIGNAL	0.017 (0.43)
VL GROUND	0.022 (0.56)

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Dimensions in Inch (millimeter) are subject to change without notice.

806-049 VersaLink PCB Jam-Nut Receptacle

PART NUMBER DEVELOPMENT					
Sample Part Number	**806-049**	**-ME**	**11-4V**	**S**	**A**
Series / Basic No.	**806-049** PCB Jam-Nut Receptacle				
Material / Finish	**ME** = Aluminum alloy, electroless nickel (96 hour salt spray) **MT** = Aluminum alloy, nickel-PTFE **NF** = Aluminum alloy, cad/O.D. over electroless nickel **ZR** = Aluminum alloy, zinc nickel, black (trivalent chromium) **Z1** = Aluminum alloy, stainless steel passivated **ZL** = Aluminum alloy, electro-deposited nickel				
Insert Layout	See Insert Arrangement Table (See page 13–14 for layouts)				
Contact Gender	**P** = Pin **S** = Socket				
Polarization	**A**, **B**, **C**, **D**, **E**, **F**; see Polarization Table				

MATERIALS / FINISH

- Shell: see part number development
- Pin contact: copper alloy / 50µ gold over nickel
- Socket contact: copper alloy with stainless steel hood (22HD and 20HD) / 50µ gold over nickel, contact hood passivate
- Insulators: high-grade rigid dielectric
- Seals: fluorosilicone/silicone blend
- Potting: epoxy

PERFORMANCE SPECIFICATIONS

- Current rating for 20HD and 22HD:
  20 AWG: 7.5 amps
  22 AWG: 5 amps
- DWV:
  20HD: 1800 VAC at sea level
  22HD: 1300 VAC at sea level
  VersaLink: 500 VAC at sea level
- Insulation resistance:
  5000 MΩ min. at ambient temperature
  1000 MΩ min. at elevated temperature
- Operating temperature: -65° to +200° C

NOTES

1. Integral PCB stand off 4x 4-40 UNC, .156 minimum thread and locating post.
2. Connector is backfilled with epoxy, contacts are non-removable.
3. Receptacle connector mates with 806-044 of the same arrangement, polarization, and opposite gender.
4. Refer to Refer to Series 806 PCB footprints on page 38.
5. Red band indicates full mate.

INSERT ARRANGEMENT

SHELL SIZE-LAYOUT	NUMBER OF CONTACTS		
	VersaLink	22HD	20HD
8-1V[1]	1		
9-2V[2]	2		
10-2V2	2		2
11-4V[3]	4		
11-2V9[4]	2	9	
12-4V4	4	4	
14-6V7	6	7	
14-4V15[5]	4	15	
16-10V4	10	4	
16-8V10	8	10	
18-14V4	14	4	
18-8V31	8	31	
20-18V8	18	8	
22-25V4	25	4	
22-16V19	16	19	
24-32V	32		
24-16V66	16	66	

Support for:
1. 10G SPE 2. SATA 3
3. 40G Ethernet 4. USB 3.1 Gen 2
5. USB 3.2, USB 4, HDMI, DP, DVI Single Link

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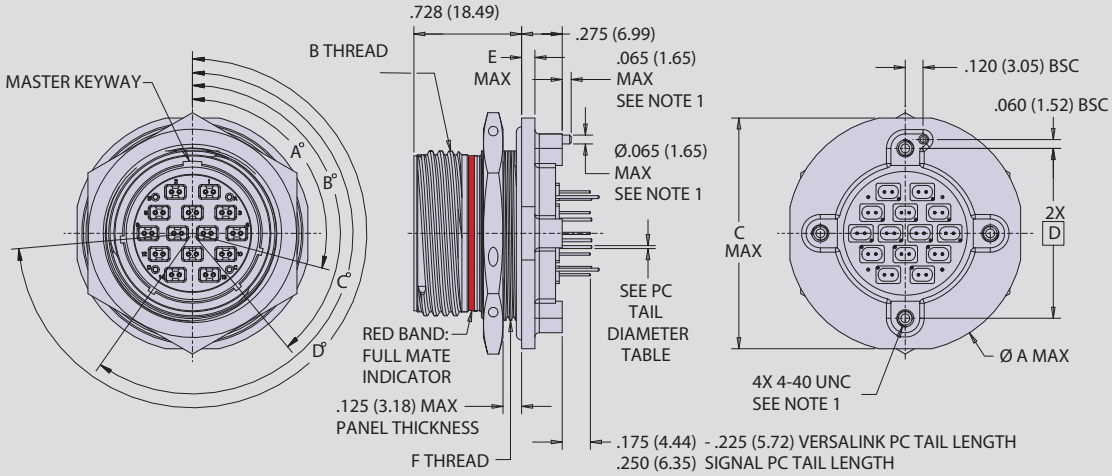
806-049 VersaLink PCB Jam-Nut Receptacle



DIMENSIONS						
SHELL SIZE	ØA MAX	B MATING THREAD	C MAX	D	E MAX	F THREAD
8	0.980 (24.89)	.5000-.067P-.2L-TS-2B	0.920 (23.37)	0.534 (13.56)	0.100 (2.54)	M15 X 1-6g.100R
9	1.040 (26.42)	.5625-.067P-.2L-TS-2B	0.980 (24.89)	0.579 (14.71)	0.100 (2.54)	M16 X 1-6g.100R
10	1.110 (28.19)	.6250-.067P-.2L-TS-2B	1.050 (26.67)	0.679 (17.25)	0.100 (2.54)	M18 X 1-6g.100R
11	1.160 (29.46)	.6875-.067P-.2L-TS-2B	1.110 (28.19)	0.734 (18.64)	0.100 (2.54)	M19 X 1-6g.100R
12	1.230 (31.24)	.7500-.067P-.2L-TS-2B	1.170 (29.72)	0.804 (20.42)	0.100 (2.54)	M21 X 1-6g.100R
14	1.360 (34.54)	.8750-.067P-.2L-TS-2B	1.320 (33.53)	0.891 (22.63)	0.100 (2.54)	M24 X 1-6g.100R
16	1.515 (38.48)	1.0000-.067P-.2L-TS-2B	1.444 (36.68)	1.049 (26.64)	0.100 (2.54)	M27 X 1-6g.100R
18	1.610 (40.89)	1.1250-.067P-.2L-TS-2B	1.570 (39.88)	1.148 (29.16)	0.100 (2.54)	M30 X 1-6g.100R
20	1.850 (46.99)	1.2500-.067P-.2L-TS-2B	1.760 (44.70)	1.252 (31.80)	0.128 (3.25)	M34 X 1-6g.100R
22	2.010 (51.05)	1.3750-.067P-.2L-TS-2B	1.913 (48.59)	1.369 (34.77)	0.128 (3.25)	M37 X 1-6g.100R
24	2.195 (55.75)	1.5000-.067P-.2L-TS-2B	2.070 (52.58)	1.509 (38.33)	0.128 (3.25)	M41 X 1-6g.100R

POLARIZATION				
POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

CUTOUT PANEL DIMENSIONS		
SHELL SIZE	ØJ	K
8	0.601 (15.27)	0.256 (6.50)
9	0.640 (16.26)	0.287 (7.29)
10	0.719 (18.26)	0.318 (8.08)
11	0.759 (19.28)	0.350 (8.89)
12	0.837 (21.26)	0.381 (9.68)
14	0.955 (24.26)	0.443 (11.25)
16	1.073 (27.25)	0.505 (12.83)
18	1.192 (30.28)	0.568 (14.43)
20	1.349 (34.26)	0.630 (16.00)
22	1.467 (37.26)	0.693 (17.60)
24	1.624 (41.25)	0.775 (19.69)

PC TAIL DIAMETERS	
CONTACT	MAX PC TAIL DIAMETER
#20	.032 (0.81)
#22	.022 (0.56)
VL SIGNAL	.017 (0.43)
VL GROUND	.022 (0.56)

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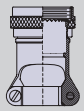
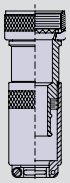
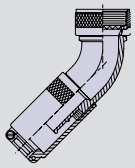
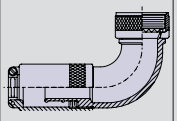
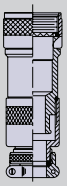
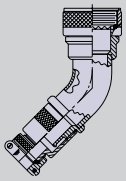
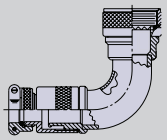
VersaLink™ Circular Backshell Selection Guide

Backshells listed here are specially designed to fit over shielded contacts and their grommet followers to accommodate the appropriate bend radius of the cables they are used with.

HIGH SPEED CONTACT BACKSHELL OPTIONS

Series	EMI	Environmental	Strain Relief	Straight	45°	90°	Description
Straight 620V**S**090	None	No	Saddle Bar		N/A	N/A	**Lightweight Strain Relief** (to be used at a minimum)
Straight 4470V**S**1130 **45 Degree** 4470V**M**1130 **90 Degree** 4470V**N**1130	Banding Porch	No	Saddle Bar				**EMI/RFI Banding Strain Relief** Advised for overbraid with or without individual shield terminations requiring medium duty strain relief
Straight 443V**S**042 **45 Degree** 443V**M**042 **90 Degree** 443V**N**042	Banding Porch	O-Ring Gland (Splash Proof)	Saddle Bar				**EMI/RFI Banding Strain Relief, Environmental** Advised for environmental overbraid with or without individual shield terminations requiring medium duty strain relief

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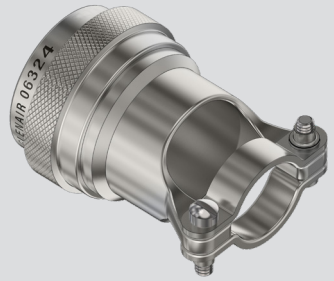
620VS090 Strain Relief Cable Clamp Backshell, High-Speed Contacts



Self-locking. Full radius saddles. Extra clearance for #8 sealing boots. Extended frame saddle clamp fits Series 806 Mil-Aero connectors. Clamp has enlarged inside diameter and longer frame to provide clearance for high-speed contacts with sealing boots. Extra clearance helps prevent contact splay and damage. Full radius saddle bars have self-locking SST clinch nuts. Anti-decoupling mechanism provides audible detented coupling and prevents backoff under high vibration.

ADAPTER CODE V

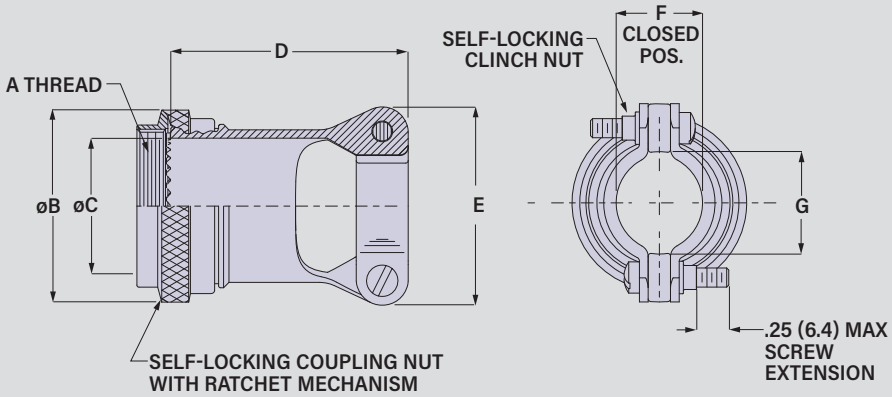
- This accessory fits Glenair Series 806 Mil-Aero VersaLink connectors

MATERIAL/FINISH

- Body, saddles, coupling nut: aluminum or SST, finish per PN build
- Screws, washers, clinch nuts: stainless steel
- Anti-decoupling spring: high temperature thermoplastic (aluminum clamps) or SST (SST clamps)

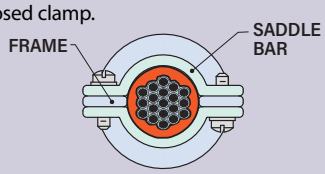
HOW TO ORDER

Sample Part Number	620VS090	ME	20
Product	**620VS090** = Series 806, Straight Backshell		
Material/ Finish	**ME** = Aluminum alloy, electroless nickel (96 hour salt spray) **MT** = Aluminum alloy, nickel-PTFE **NF** = Aluminum alloy, cad/O.D. over electroless nickel **ZR** = Aluminum alloy, zinc nickel, black (trivalent chromium) **Z1** = Aluminum alloy, stainless steel passivated **ZL** = Aluminum alloy, electro-deposited nickel		
Shell Size	**08 09 10 11 12 14 16 18 20 22 24**		



APPLICATION NOTE

- This backshell has a full radius saddle clamp. This type of strain relief is designed to be fully closed. Saddle bars should be bottomed onto frame. Build up cable diameter with tape or sleeve to meet the diameter of the fully closed clamp.



FULL RADIUS SADDLE CLAMP
SADDLE BARS SHOULD BE FULLY BOTTOMED ONTO FRAME.

DIMENSIONS

Shell Size	A ISO Metric Thread	øB Max.	øC ± .005 (0.1)	D ± .060 (1.5)	E Max	F ± .031 (.8)	G Min
08	M10 x 1.0-6H	.642 (16.31)	.269 (6.83)	1.31 (33.27)	.93 (23.62)	.205 (5.21)	.18 (4.57)
09	M12 x 1.0-6H	.735 (18.67)	.346 (8.79)	1.25 (31.75)	.98 (24.89)	.219 (5.56)	.22 (5.59)
10	M14 x 1.0-6H	.786 (19.96)	.410 (10.41)	1.31 (33.27)	1.02 (25.91)	.244 (6.20)	.25 (6.35)
11	M15 x 1.0-6H	.830 (21.08)	.471 (11.96)	1.31 (33.27)	1.05 (26.67)	.264 (6.71)	.27 (6.86)
12	M17 x 1.0-6H	.911 (23.14)	.539 (13.69)	1.38 (35.05)	1.12 (28.45)	.312 (7.92)	.32 (8.13)
14	M19 x 1.0-6H	1.002 (25.45)	.592 (15.04)	1.38 (35.05)	1.20 (30.48)	.344 (8.74)	.35 (8.89)
16	M22 x 1.0-6H	1.149 (29.18)	.740 (18.80)	1.44 (36.58)	1.30 (33.02)	.460 (11.68)	.47 (11.94)
18	M25 x 1.0-6H	1.264 (32.11)	.856 (21.74)	1.50 (38.10)	1.44 (36.58)	.545 (13.84)	.55 (13.97)
20	M28 x 1.0-6H	1.394 (35.41)	.980 (24.89)	1.56 (39.62)	1.56 (39.62)	.615 (15.62)	.62 (15.75)
22	M31 x 1.0-6H	1.513 (38.43)	1.070 (27.18)	1.69 (42.93)	1.69 (42.93)	.698 (17.73)	.70 (17.78)
24	M34 x 1.0-6H	1.631 (41.43)	1.214 (30.84)	1.75 (44.45)	1.77 (44.96)	.780 (19.81)	.78 (19.81)

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440V#1130 Banding Backshell, Shrouded

Band-In-A-Can . Threaded coupling adapter with anti-decoupling ratchet prevents loosening under vibration. Accommodates Series 806 connectors with high-speed contacts and cable sealing boots. Aluminum or stainless steel.

HOW TO ORDER

Sample Part Number	4470V	S	1130	NF	14	14	-8	K	P
Product	**4470V** = Series 806, Band-In-A-Can Backshell								
Angular Function		**M** = 45° Bent Tube **N** = 90° Bent Tube **S** = Straight							
Basic Part No.			**1130**						
Material/ Finish				See Material and Finish Table					
Shell Size					**08 09 10 11 12 14 16 18 20 22 24**				
Dash No						**10 12 14 16 18 20 22 24 28**; see Dash Number Table			
Length: S Only							1/4 inch increments, E.G. 8 = 2.00 inches		
Band								**K** = Precoiled Band, 600-052-1	
Polysulfide									Omit for none

ADAPTER CODE V

- This accessory fits Glenair Series 806 Mil-Aero VersaLink connectors

FEATURES

- Expanded clearance for VersaLink contacts and grommet follower
- EMI/RFI
- Band strap shield termination

SPECIFICATIONS

- Operating temperature:
  codes ME, MT and Z1, ZL: -65°C to +200°C
  codes NF, ZR: -65°C to +175°C
- Shell conductivity:
  aluminum versions: 2.5 milliohms max.
  Stainless steel: 5 milliohms max.
- Salt spray (corrosion)
  Code ME: 96 hours
  Code MT, NF, ZR, Z1, ZL: 500 hours

MATERIAL & FINISH

- Adapter, elbow, coupling nut, body clamp, saddle - see table II
- Hardware & band - cres/passivate
- Anti-decoupling device - corrosion resistant material

DASH NUMBER

DASH NO	H ±.030 DIA	J MAX DIM	X THREAD CLASS 2B	CABLE RANGE MIN	CABLE RANGE MAX
10	0.220 (5.59)	1.000 (25.40)	5/8-24 UNEF	0.130 (3.30)	0.250 (6.35)
12	0.310 (7.87)	1.250 (31.75)	3/4-20 UNEF	0.250 (6.35)	0.380 (9.65)
14	0.440 (11.18)	1.340 (34.04)	13/16-20 UNEF	0.310 (7.87)	0.440 (11.18)
16	0.560 (14.22)	1.470 (37.34)	1-20 UNEF	0.375 (9.53)	0.630 (16.00)
18	0.630 (16.00)	1.560 (39.62)	1 1/8-18 UNEF	0.560 (14.22)	0.690 (17.53)
20	0.750 (19.05)	1.620 (41.15)	1 1/8-18 UNEF	0.630 (16.00)	0.750 (19.05)
22	0.880 (22.35)	1.750 (44.45)	1 1/4-18 UNEF	0.750 (19.05)	0.880 (22.35)
24	1.000 (25.40)	1.870 (47.50)	1 3/8-18 UNEF	0.880 (22.35)	1.000 (25.40)
28	1.060 (26.92)	1.970 (50.04)	1 1/2-18 UNEF	1.000 (25.40)	1.130 (28.70)

MATERIAL AND FINISH

Sym	Finish Description
ME	Aluminum alloy, electroless nickel
MT	Aluminum alloy, nickel-PTFE
NF	Aluminum alloy, cadmium olive drab over electroless nickel
ZR	Aluminum alloy, zinc nickel, black over electroless nickel
Z1	Stainless steel, passivated
ZL	Stainless steel, electro-deposited nickel

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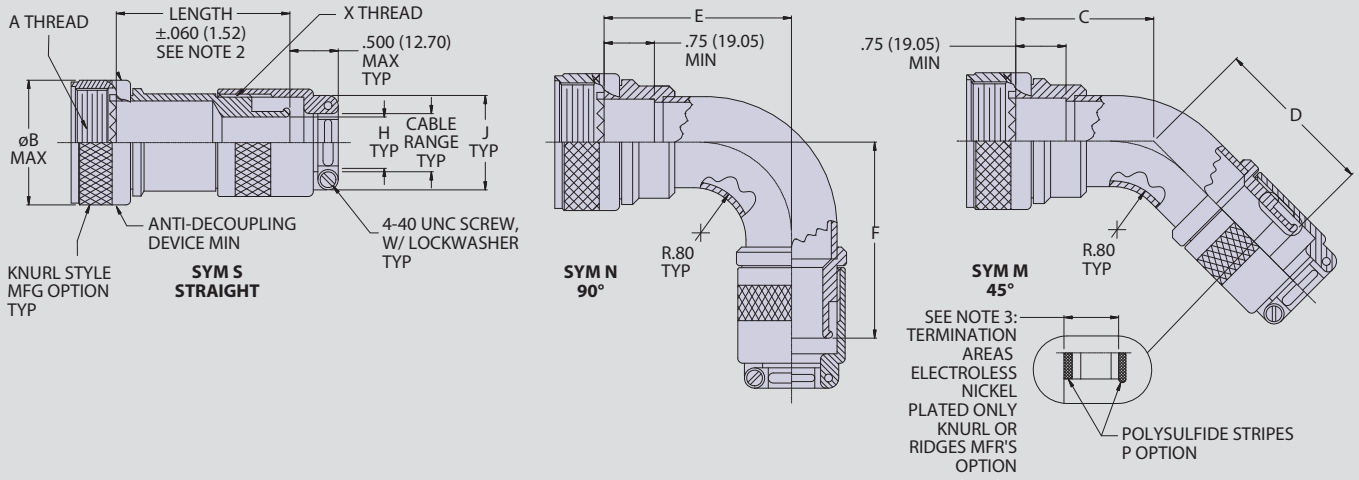
Series 806 Mil-Aero VersaLink™ Connectors

440VS1130 Banding Backshell, Shrouded



DIMENSIONS							
SHELL SIZE	A THREAD	øB MAX	C MAX DIM	D MAX DIM	E MAX DIM	F MAX DIM	MAX DASH NO.
07	M8 X 1- 6H	0.640 (16.26)	1.433 (36.40)	1.443 (36.65)	1.893 (48.08)	1.903 (48.34)	10
08	M10 X 1- 6H	0.710 (18.03)	1.433 (36.40)	1.443 (36.65)	1.893 (48.08)	1.903 (48.34)	10
09	M12 X 1- 6H	0.780 (19.81)	1.433 (36.40)	1.443 (36.65)	1.893 (48.08)	1.903 (48.34)	10
10	M14 X 1- 6H	0.880 (22.35)	1.460 (37.08)	1.470 (37.34)	1.955 (49.66)	1.965 (49.91)	12
11	M15 X 1- 6H	0.920 (23.37)	1.460 (37.08)	1.470 (37.34)	1.955 (49.66)	1.965 (49.91)	12
12	M17 X 1- 6H	1.000 (25.40)	1.485 (37.72)	1.495 (37.97)	2.107 (53.52)	2.117 (53.77)	14
14	M19 X 1- 6H	1.090 (27.69)	1.485 (37.72)	1.495 (37.97)	2.107 (53.52)	2.117 (53.77)	14
16	M22 X 1- 6H	1.210 (30.73)	1.541 (39.14)	1.551 (39.40)	2.170 (55.12)	2.180 (55.37)	18
18	M25 X 1- 6H	1.330 (33.78)	1.580 (40.13)	1.590 (40.39)	2.275 (57.79)	2.285 (58.04)	20
20	M28 X 1- 6H	1.450 (36.83)	1.606 (40.79)	1.616 (41.05)	2.338 (59.39)	2.348 (59.64)	22
22	M31 X 1- 6H	1.570 (39.88)	1.588 (40.34)	1.598 (40.59)	2.399 (60.93)	2.409 (61.19)	24
24	M34 X 1- 6H	1.700 (43.18)	1.610 (40.89)	1.620 (41.15)	2.420 (61.47)	2.430 (61.72)	28

BAND

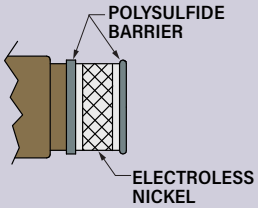
- Optional SST band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding.
- The Band-Master ATS® Advanced Cable Shield Termination System provides excellent static loading and corrosion resistance in electrical wire interconnect systems.

Band
601-041

Banding Tool
601-100

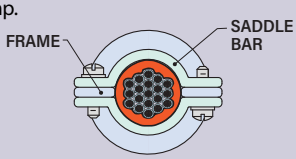
POLYSULFIDE

- Optional selective electroless nickel plating on shield termination area and polysulfide dielectric barrier prevents galvanic mismatch between nickel-coated braid shield and backshell.
- ⚠ *Plating codes NF, ZR only*



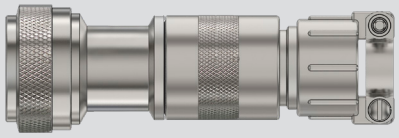
APPLICATION NOTE

- This backshell has a full radius saddle clamp. This type of strain relief is designed to be fully closed. Saddle bars should be bottomed onto frame. Build up cable diameter with tape or sleeve to meet the diameter of the fully closed clamp.



FULL RADIUS SADDLE CLAMP
SADDLE BARS SHOULD BE FULLY BOTTOMED ONTO FRAME.

443V*042 Banding Backshell, Shrouded, Expanded Clearance



Prevents splaying of VersaLink contacts. Environmental. "Band-in-a-Can" shield termination. Saddle clamp. 443V*042 banding backshell fits Glenair Series 806 Mil-Aero VersaLink connectors. Backshell has increased clearance for sealing boots used with VersaLink contacts. Anti-decoupling mechanism provides audible detented coupling and prevents backoff under high vibration. Terminate cable braid shield with band strap (optional). Environmentally sealed with O-rings. Aluminum or stainless steel. Saddle clamp hardware is passivated SST. Silicone O-rings and grommet. Aluminum version has thermoplastic detent spring, stainless steel version has stainless steel detent spring.

ADAPTER CODE V

- This accessory fits Glenair Series 806 Mil-Aero VersaLink connectors

HOW TO ORDER

Sample Part Number	443VS042	ME	12	04	-8	K	P

Basic Part November

443VS042	**S**	**Straight**
443VM042	**M**	**45°**
443VN042	**N**	**90°**

Material / Finish

ME = Aluminum / Electroless Nickel
MT = Aluminum / Nickel-PTFE
NF = Aluminum / Olive Drab Cadmium
ZR = Aluminum / Black Zinc-Nickel
TZ = Aluminum / Tin-Zinc
Z1 = Stainless Steel / Passivated

Shell Size

08 09 10 11 12 14 16 18 20 22 24

Entry Size

Size	Cable Range Min	Cable Range Max	Shell Sizes
01 =	.125 (3.2)	.250 (6.4)	8-24
02 =	.188 (4.8)	.375 (9.5)	10-24
03 =	.312 (7.9)	.438 (11.1)	11-24
04 =	.343 (8.7)	.500 (12.7)	12-24
05 =	.438 (11.1)	.625 (15.9)	16-24
06 =	.562 (14.3)	.750 (19.1)	18-24
07 =	.688 (17.5)	.875 (22.2)	20-24
08 =	.812 (20.6)	1.000 (25.4)	22-24
09 =	.938 (23.8)	1.125 (28.6)	24

Length

-8 = 2.0 in.
-10 = 2.5 in.
-12 = 3.0 in.
-14 = 3.5 in.

Band

Omit if not required
K Pre-Coiled Band Included

Polysulfide

Omit if not required. Applies to Plating Codes NF, ZR, TZ only.
P = Nickel Plated Shield Termination Area with Polysulfide Barrier

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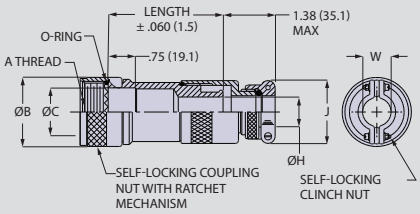
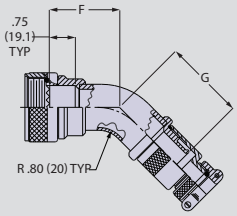
Dimensions in Inch (millimeter) are subject to change without notice.

Series 806 Mil-Aero VersaLink™ Connectors

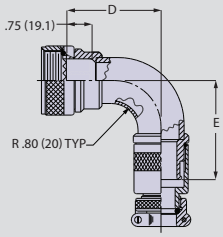
443V*042 Banding Backshell, Shrouded, Expanded Clearance



Profile S Straight



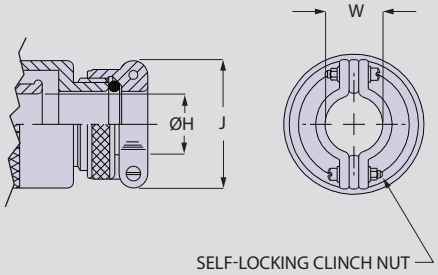
Profile M 45°



Profile N 90

DIMENSIONS

Shell Size	A Thread ISO Metric	øB Max.	øC ± .005 (0.1)	D Max.	E Max.	F Max.	G Max.	Max. Entry Size
08	M10 x 1.0-6H	.710 (18.03)	.269 (6.83)	1.893 (48.08)	1.903 (48.34)	1.433 (36.40)	1.443 (36.65)	01
09	M12 x 1.0-6H	.780 (19.81)	.346 (8.79)	1.893 (48.08)	1.903 (48.34)	1.433 (36.40)	1.443 (36.65)	01
10	M14 x 1.0-6H	.880 (22.35)	.410 (10.41)	1.955 (49.66)	1.965 (49.91)	1.460 (37.08)	1.470 (37.34)	02
11	M15 x 1.0-6H	.920 (23.37)	.471 (11.96)	1.955 (49.66)	1.965 (49.91)	1.460 (37.08)	1.470 (37.34)	02
12	M17 x 1.0-6H	1.000 (25.40)	.539 (13.69)	2.107 (53.52)	2.117 (53.77)	1.485 (37.72)	1.495 (37.97)	04
14	M19 x 1.0-6H	1.090 (27.69)	.592 (15.04)	2.107 (53.52)	2.117 (53.77)	1.485 (37.72)	1.495 (37.97)	04
16	M22 x 1.0-6H	1.210 (30.73)	.740 (18.80)	2.170 (55.12)	2.180 (55.37)	1.541 (39.14)	1.551 (39.40)	05
18	M25 x 1.0-6H	1.330 (33.78)	.856 (21.74)	2.275 (57.79)	2.285 (58.04)	1.580 (40.13)	1.590 (40.39)	06
20	M28 x 1.0-6H	1.450 (36.83)	.980 (24.89)	2.338 (59.39)	2.348 (59.64)	1.606 (40.79)	1.616 (41.05)	07
22	M31 x 1.0-6H	1.570 (39.88)	1.070 (27.18)	2.399 (60.93)	2.409 (61.19)	1.588 (40.34)	1.598 (40.59)	08
24	M34 x 1.0-6H	1.700 (43.18)	1.214 (30.84)	2.420 (61.47)	2.430 (61.72)	1.610 (40.89)	1.620 (41.15)	09



ENTRY SIZE DIMENSIONS

Entry Size	Cable Range Min.	Cable Range Max.	J Max.	W Closed	ø H	Shell Sizes
01	.125 (3.18)	.250 (6.35)	1.05 (26.67)	.264 (6.71)	.25 (6.35)	8-24
02	.188 (4.78)	.375 (9.53)	1.20 (30.48)	.344 (8.74)	.37 (9.40)	10-24
03	.312 (7.92)	.438 (11.13)	1.30 (33.02)	.460 (11.68)	.43 (10.92)	11-24
04	.343 (8.71)	.500 (12.70)	1.44 (36.58)	.545 (13.84)	.50 (12.70)	12-24
05	.438 (11.13)	.625 (15.88)	1.69 (42.93)	.698 (17.73)	.62 (15.75)	16-24
06	.562 (14.27)	.750 (19.05)	1.77 (44.96)	.780 (19.81)	.75 (19.05)	18-24
07	.688 (17.48)	.875 (22.23)	2.12 (53.85)	.950 (24.13)	.87 (22.10)	20-24
08	.812 (20.62)	1.000 (25.40)	2.50 (63.50)	1.015 (25.78)	1.00 (25.40)	22-24
09	.938 (23.83)	1.125 (28.58)	2.62 (66.55)	1.187 (30.15)	1.12 (28.45)	24

BAND

- Optional SST band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding.
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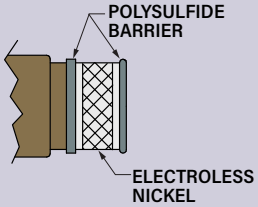
Band
601-041

Banding Tool
601-100

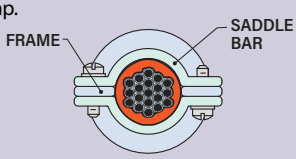
POLYSULFIDE

- Optional selective electroless nickel plating on shield termination area and polysulfide dielectric barrier prevents galvanic mismatch between nickel-coated braid shield and backshell.
- ⚠ *Plating codes NF, ZR and TZ only*



APPLICATION NOTE

- This backshell has a full radius saddle clamp. This type of strain relief is designed to be fully closed. Saddle bars should be bottomed onto frame. Build up cable diameter with tape or sleeve to meet the diameter of the fully closed clamp.



FULL RADIUS SADDLE CLAMP
SADDLE BARS SHOULD BE FULLY BOTTOMED ONTO FRAME.

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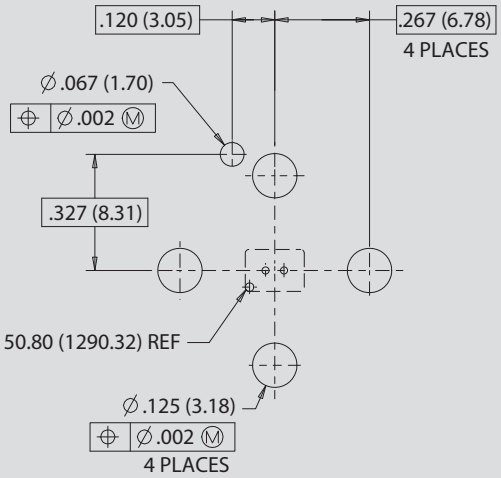
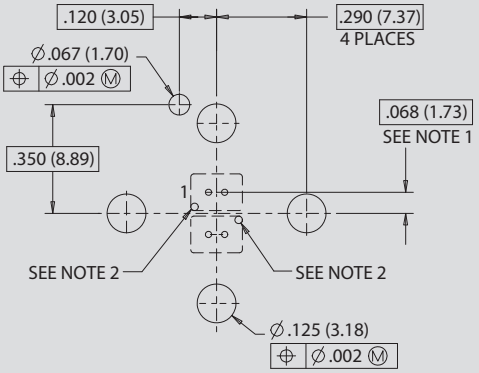
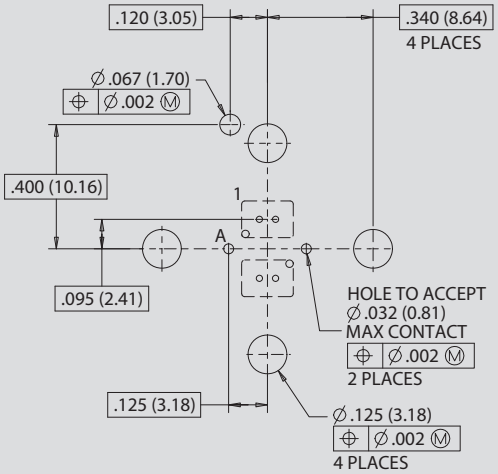
PCB Footprints



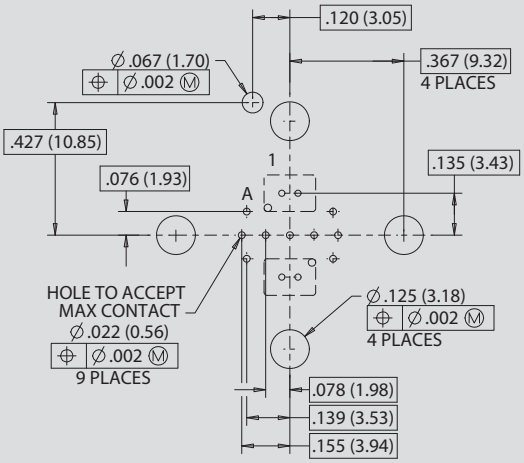
Arrangement No. 8-1V
1X VersaLink



Arrangement No. 9-2V
2X VersaLink



Arrangement No. 10-2V2
2X VersaLink
2X 20HD
See Note 1 and 2

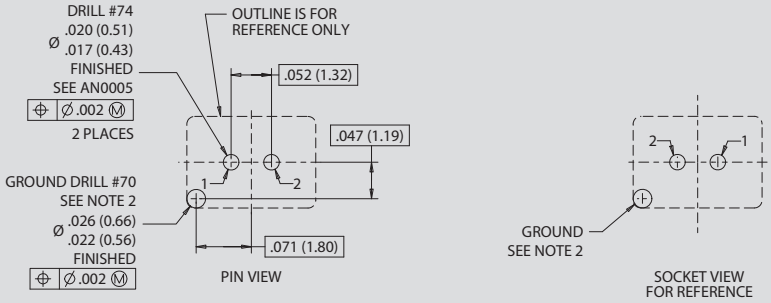


Arrangement No. 11-2V9
2X VersaLink
9X 22HD
See Note 1 and 2

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)



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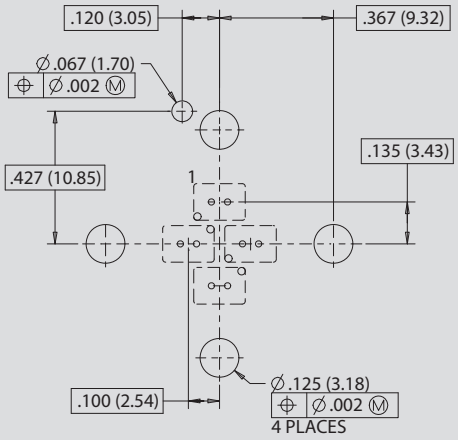
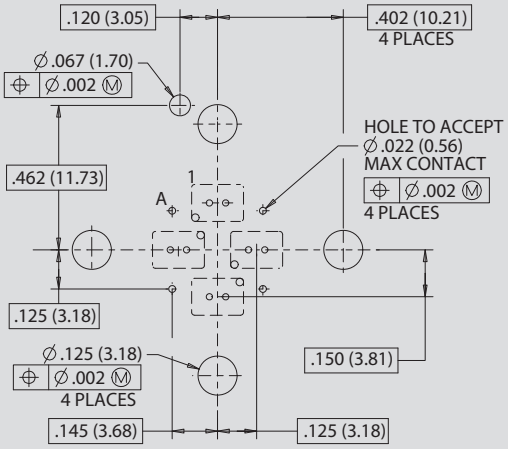
Dimensions in Inch (millimeter) are subject to change without notice.

PCB Footprints

Arrangement No. 11-4V
4X VersaLink
See Note 1 and 2



Arrangement No. 12-4V4
4X VersaLink
4X 22HD
See Note 1 and 2



NOTES

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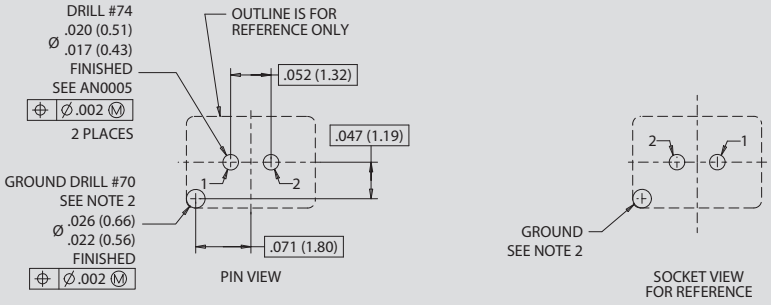
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)



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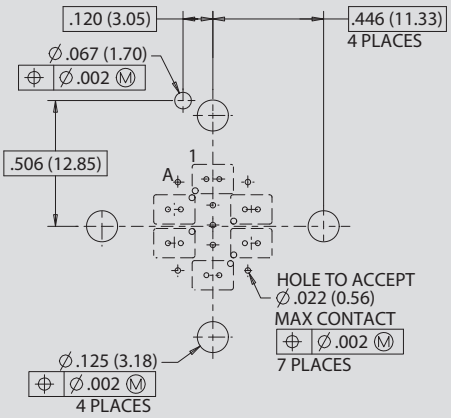
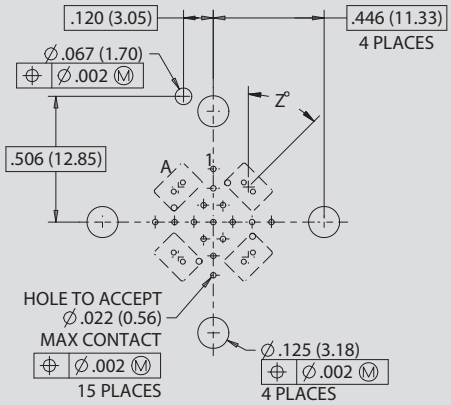
PCB Footprints

Arrangement No. 14-6V7
6X VersaLink
7X 22HD
See Note 1 and 2



CONTACT POSITIONS		
POS	X	Y
1	.000 (0.00)	.185 (4.70)
2	-.155 (-3.94)	.068 (1.73)
3	.155 (3.94)	.068 (1.73)
4	-.155 (-3.94)	.068 (1.73)
5	.1585 (4.03)	-.068 (-1.73)
6	.000 (0.00)	-.185 (-4.70)
A	.141 (3.58)	.178 (4.52)
B	-.141 (-3.58)	.1787 (4.54)
C	.000 (0.00)	.085 (2.16)
D	.000 (0.00)	.005 (0.13)
E	.000 (0.00)	.075 (1.91)
F	.141 (3.58)	-.178 (-4.52)
G	-.141 (-3.58)	-.178 (-4.52)

Arrangement No. 14-4V15
2X VersaLink
4X 20HD
15X 22HD
See Note 1 and 2

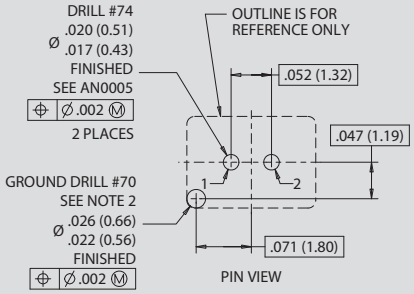


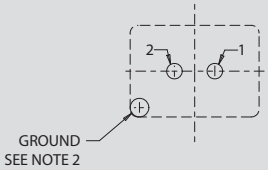
CONTACT POSITIONS			
POS	X	Y	Z° ±0.5°
A	-.141 (-3.58)	.141 (3.58)	315
B	.141 (3.58)	.141 (3.58)	45
C	.141 (3.58)	-.141 (-3.58)	135
D	-.141 (-3.58)	-.141 (-3.58)	225
1	.000 (0.00)	.214 (5.44)	
2	.000 (0.00)	.136 (3.45)	
3	-.039 (-0.99)	.068 (1.73)	
4	.039 (0.99)	.068 (1.73)	
5	-.234 (-5.94)	.000 (0.00)	
6	-.156 (-3.96)	.000 (0.00)	
7	-.078 (-1.98)	.000 (0.00)	
8	.000 (0.00)	.000 (0.00)	
9	.078 (1.98)	.000 (0.00)	
10	.156 (3.96)	.000 (0.00)	
11	.234 (5.94)	.000 (0.00)	
12	-.039 (-0.99)	-.068 (-1.73)	
13	.039 (0.99)	-.068 (-1.73)	
14	.000 (0.00)	-.136 (-3.45)	
15	.000 (0.00)	-.214 (-5.44)	

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)





SOCKET VIEW
FOR REFERENCE

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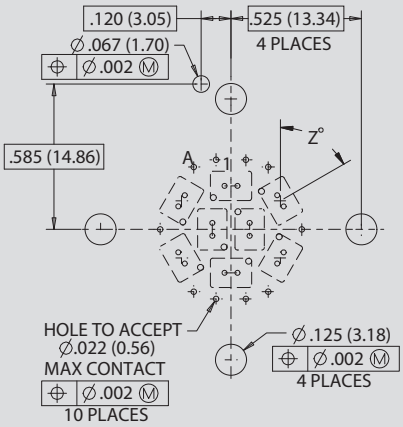
Dimensions in Inch (millimeter) are subject to change without notice.

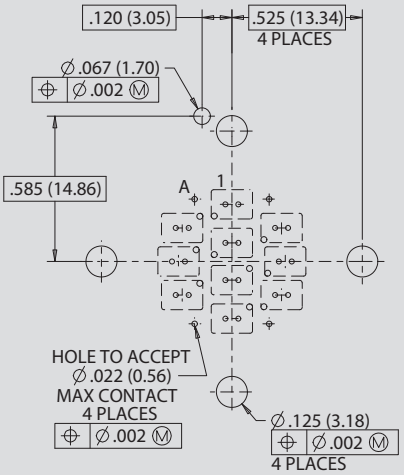
PCB Footprints

Arrangement No. 16-8V10
8X VersaLink
10X 22HD
See Note 1 and 2



CONTACT POSITIONS			
POS	X	Y	Z° ±0.5°
1	.000 (0.00)	.175 (4.45)	0
2	.199 (5.05)	.115 (2.92)	60
3	.199 (5.05)	-.115 (-2.92)	120
4	.000 (0.00)	-.175 (-4.45)	180
5	-.199 (-5.05)	-.115 (-2.92)	240
6	-.199 (-5.05)	.115 (2.92)	300
7	-.075 (-1.91)	.000 (0.00)	270
8	.075 (1.91)	.000 (0.00)	90
A	-.150 (-3.81)	.251 (6.38)	
B	-.060 (-1.52)	.280 (7.11)	
C	.060 (1.52)	.280 (7.11)	
D	.150 (3.81)	.251 (6.38)	
E	-.285 (-7.24)	.000 (0.00)	
F	.285 (7.24)	.000 (0.00)	
G	-.150 (-3.81)	-.251 (-6.38)	
H	-.060 (-1.52)	-.281 (-7.14)	
J	.060 (1.52)	-.281 (-7.14)	
K	.150 (3.81)	.251 (6.38)	

Arrangement No. 16-10V4
10X VersaLink
4X 22HD
See Note 1 and 2

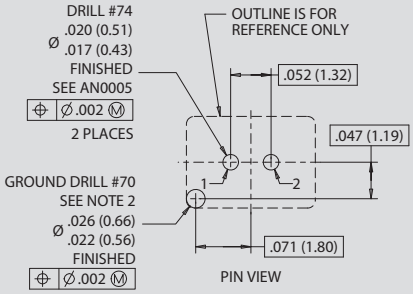


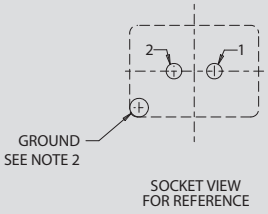
CONTACT POSITIONS		
POS	X	Y
1	.000 (0.00)	.230 (5.84)
2	-.200 (-5.08)	.135 (3.43)
3	.000 (0.00)	.075 (1.91)
4	.200 (5.08)	.135 (3.43)
5	-.215 (-5.46)	.000 (0.00)
6	.000 (0.00)	-.075 (-1.91)
7	.215 (5.46)	.000 (0.00)
8	-.200 (-5.08)	-.135 (-3.43)
9	.000 (0.00)	-.230 (-5.84)
10	.200 (5.08)	.135 (3.43)
A	-.150 (-3.81)	.251 (6.38)
B	.150 (3.81)	.251 (6.38)
C	-.150 (-3.81)	-.251 (-6.38)
D	.150 (3.81)	-.251 (-6.38)

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)





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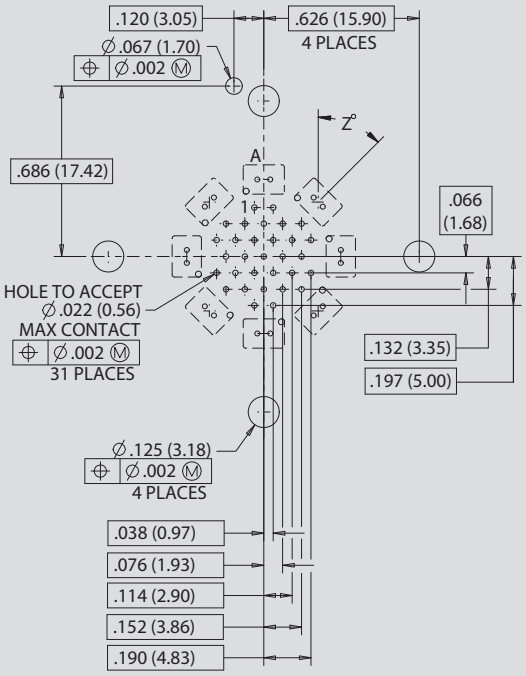
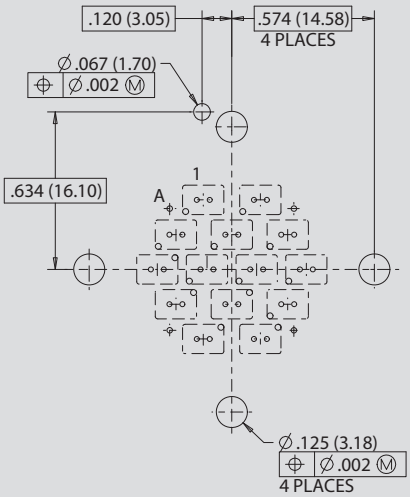
PCB Footprints

Arrangement No. 16-8V31
8X VersaLink
31X 22HD
See Note 1 and 2



CONTACT POSITIONS			
POS	X	Y	Z° ±0.5°
A	.000 (0.00)	.310 (7.87)	0
B	.219 (5.56)	.219 (5.56)	45
C	.310 (7.87)	.000 (0.00)	90
D	.219 (5.56)	-.219 (-5.56)	135
E	.000 (0.00)	-.310 (-7.87)	180
F	-.219 (-5.56)	-.219 (-5.56)	225
G	-.310 (-7.87)	.000 (0.00)	270
H	-.219 (-5.56)	.219 (5.56)	315

Arrangement No. 18-18V8
18X VersaLink
8X 22HD
See Note 1 and 2

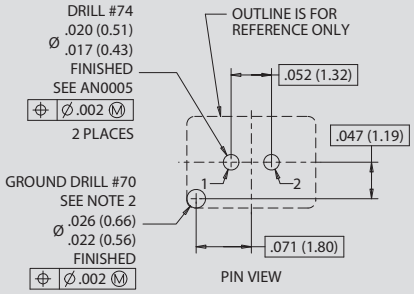


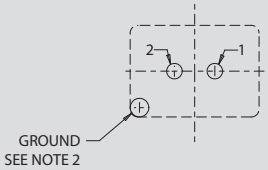
CONTACT POSITIONS		
POS	X	Y
1	-.115 (-2.92)	.280 (7.11)
2	.115 (2.92)	.280 (7.11)
3	-.225 (-5.72)	.140 (3.56)
4	.000 (0.00)	.140 (3.56)
5	.225 (5.72)	.140 (3.56)
6	-.300 (-7.62)	.000 (0.00)
7	-.100 (-2.54)	.000 (0.00)
8	.100 (2.54)	.000 (0.00)
9	.300 (7.62)	.000 (0.00)
10	-.225 (-5.72)	-.140 (-3.56)
11	.000 (0.00)	-.140 (-3.56)
12	.225 (5.72)	-.140 (-3.56)
13	-.115 (-2.92)	-.280 (-7.11)
14	.115 (2.92)	-.280 (-7.11)
A	-.250 (-6.35)	.245 (6.22)
B	.250 (6.35)	.245 (6.22)
C	-.250 (-6.35)	-.245 (-6.22)
D	.250 (6.35)	-.245 (-6.22)

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)





SOCKET VIEW
FOR REFERENCE

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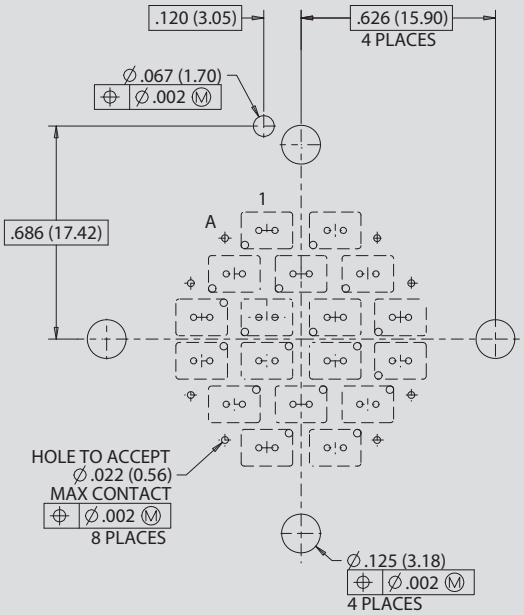
PCB Footprints

Arrangement No. 20-18V8
18X VersaLink
8X 22HD
See Note 1 and 2

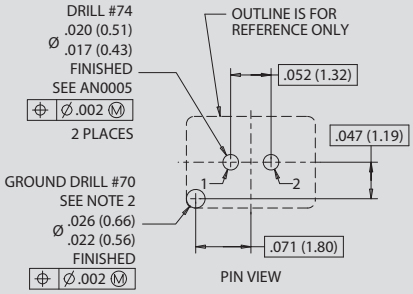


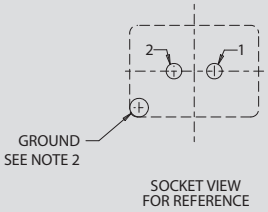
CONTACT POSITIONS		
POS	X	Y
1	-.110 (-2.79)	.350 (8.89)
2	.110 (2.79)	.350 (8.89)
3	-.215 (-5.46)	.210 (5.33)
4	.000 (0.00)	.210 (5.33)
5	.215 (5.46)	.210 (5.33)
6	-.320 (-8.13)	.070 (1.78)
7	-.110 (-2.79)	.070 (1.78)
8	.110 (2.79)	.070 (1.78)
9	.320 (8.13)	.070 (1.78)
10	-.320 (-8.13)	-.070 (-1.78)
11	-.110 (-2.79)	-.070 (-1.78)
12	.110 (2.79)	-.070 (-1.78)
13	.320 (8.13)	-.070 (-1.78)
14	-.215 (-5.46)	-.210 (-5.33)
15	.000 (0.00)	-.210 (-5.33)
16	.215 (5.46)	-.210 (-5.33)
17	-.110 (-2.79)	-.350 (-8.89)
18	.110 (2.79)	-.350 (-8.89)
A	-.245 (-6.22)	.325 (8.26)
B	.245 (6.22)	.325 (8.26)
C	-.355 (-9.02)	.180 (4.57)
D	.355 (9.02)	.180 (4.57)
E	-.355 (-9.02)	-.180 (-4.57)
F	.355 (9.02)	-.180 (-4.57)
G	-.245 (-6.22)	-.325 (-8.26)
H	.245 (6.22)	-.325 (-8.26)

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)





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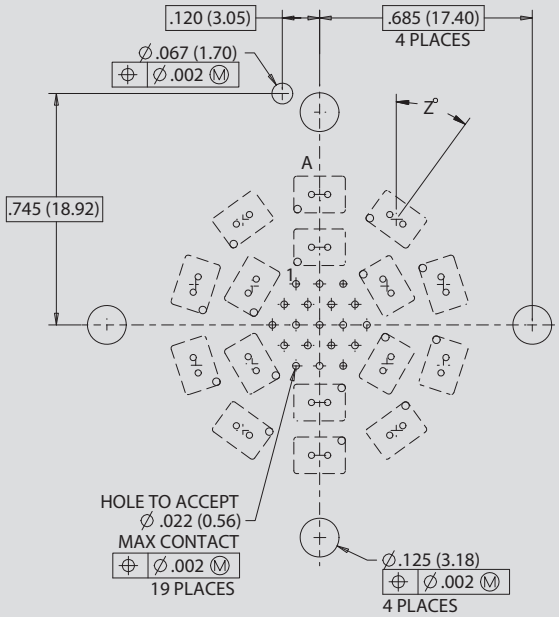
PCB Footprints

Arrangement No. 22-16V19
16X VersaLink
19X 22HD
See Note 1 and 2

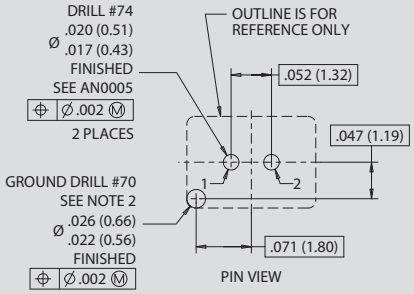


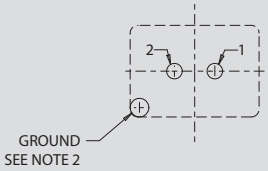
CONTACT POSITIONS			
POS	X	Y	Z° ±0.5°
A	.000 (0.00)	.420 (10.67)	0
B	.247 (6.27)	.340 (8.64)	36
C	.399 (10.13)	.130 (3.30)	72
D	.399 (10.13)	-.130 (-3.30)	108
E	.247 (6.27)	-.340 (-8.64)	144
F	.000 (0.00)	.420 (10.67)	180
G	-.247 (-6.27)	.340 (8.64)	216
H	-.399 (-10.13)	-.130 (-3.30)	252
J	-.399 (-10.13)	.130 (3.30)	288
K	-.247 (-6.27)	.340 (8.64)	324
M	.000 (0.00)	.250 (6.35)	0
N	.217 (5.51)	.125 (3.18)	60
P	.217 (5.51)	-.125 (-3.18)	120
Q	.000 (0.00)	-.250 (-6.35)	180
R	-.217 (-5.51)	-.125 (-3.18)	240
S	-.217 (-5.51)	.125 (3.18)	300
1	.076 (1.93)	.132 (3.35)	
2	.000 (0.00)	.132 (3.35)	
3	.076 (1.93)	.132 (3.35)	
4	.114 (2.90)	.066 (1.68)	
5	.038 (0.97)	.066 (1.68)	
6	.038 (0.97)	.066 (1.68)	
7	.114 (2.90)	.066 (1.68)	
8	.152 (3.86)	.000 (0.00)	
9	.076 (1.93)	.000 (0.00)	
10	.000 (0.00)	.000 (0.00)	
11	.076 (1.93)	.000 (0.00)	
12	.152 (3.86)	.000 (0.00)	
13	.114 (2.90)	.066 (1.68)	
14	.038 (0.97)	.066 (1.68)	
15	.038 (0.97)	.066 (1.68)	
16	.114 (2.90)	.066 (1.68)	
17	.076 (1.93)	.132 (3.35)	
18	.000 (0.00)	.132 (3.35)	
19	.076 (1.93)	.132 (3.35)	

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)





SOCKET VIEW
FOR REFERENCE

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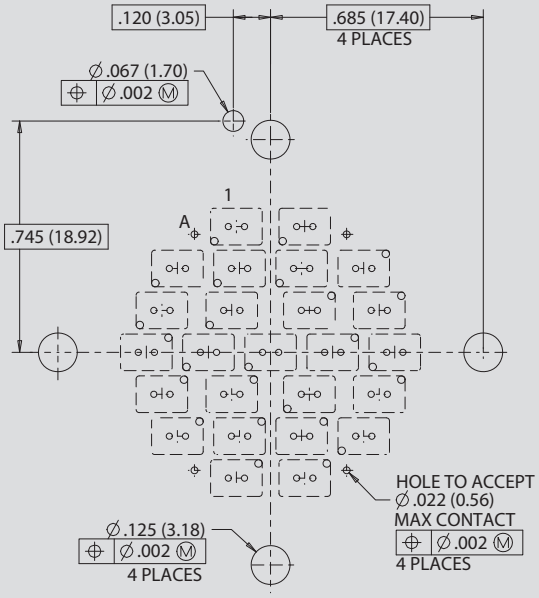
PCB Footprints

Arrangement No. 22-25V4
25X VersaLink
4X 22HD
See Note 1 and 2

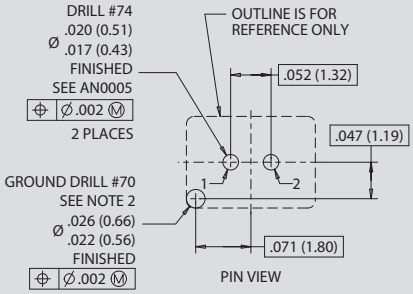


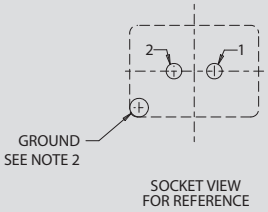
CONTACT POSITIONS		
POS	X	Y
1	-.110 (-2.79)	.405 (10.29)
2	.110 (2.79)	.405 (10.29)
3	-.300 (-7.62)	.270 (6.86)
4	-.100 (-2.54)	.270 (6.86)
5	.100 (2.54)	.270 (6.86)
6	.300 (7.62)	.270 (6.86)
7	-.350 (-8.89)	.135 (3.43)
8	-.125 (-3.18)	.135 (3.43)
9	.125 (3.18)	.135 (3.43)
10	.350 (8.89)	.135 (3.43)
11	-.400 (-10.16)	.000 (0.00)
12	-.200 (-5.08)	.000 (0.00)
13	.000 (0.00)	.000 (0.00)
14	.200 (5.08)	.000 (0.00)
15	.400 (10.16)	.000 (0.00)
16	.350 (8.89)	-.135 (-3.43)
17	-.125 (-3.18)	-.135 (-3.43)
18	.125 (3.18)	-.135 (-3.43)
19	.350 (8.89)	-.135 (-3.43)
20	-.300 (-7.62)	-.270 (-6.86)
21	-.100 (-2.54)	-.270 (-6.86)
22	.100 (2.54)	-.270 (-6.86)
23	.300 (7.62)	-.270 (-6.86)
24	-.110 (-2.79)	-.405 (-10.29)
25	.110 (2.79)	-.405 (-10.29)
A	-.245 (-6.22)	.380 (9.65)
B	.245 (6.22)	.380 (9.65)
C	-.245 (-6.22)	-.380 (-9.65)
D	.245 (6.22)	-.380 (-9.65)

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)





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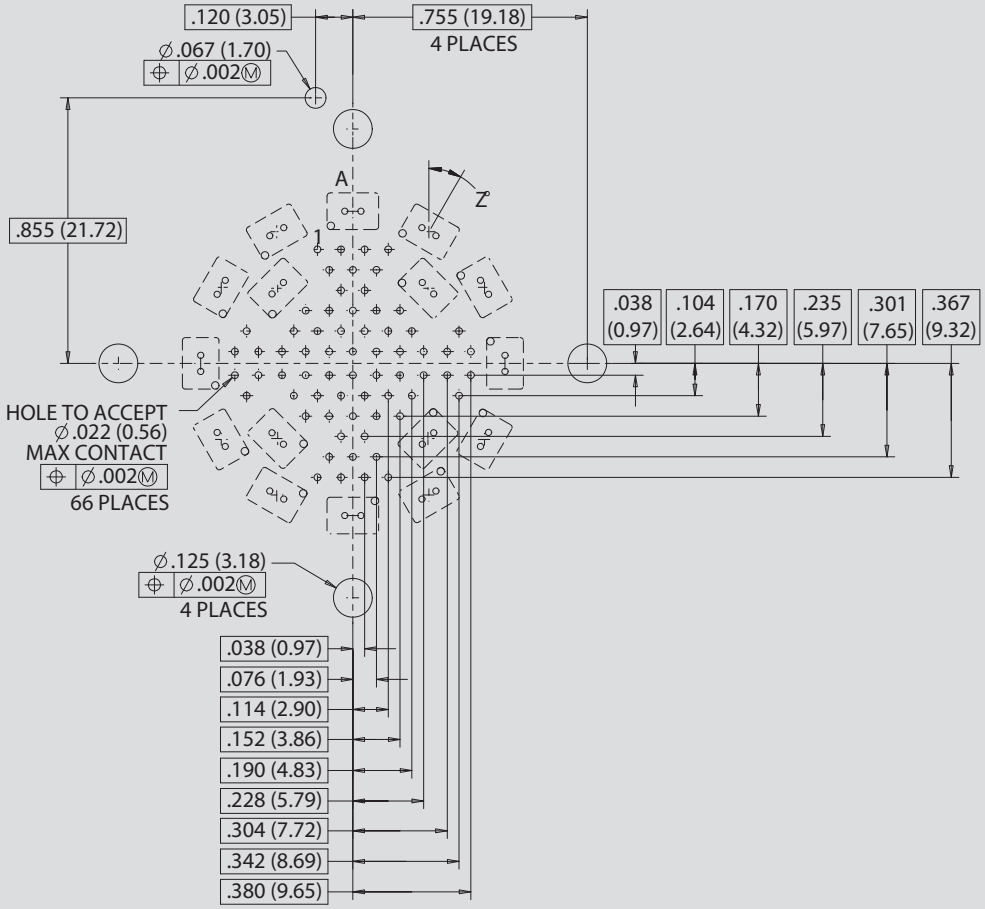
PCB Footprints



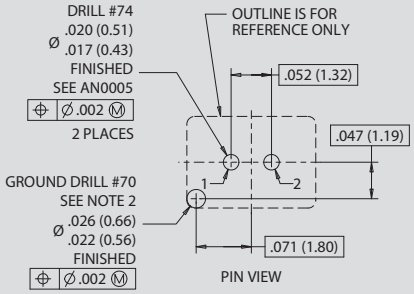
Arrangement No. 24-16V66
16X VersaLink
66X 22HD
See Note 1 and 2

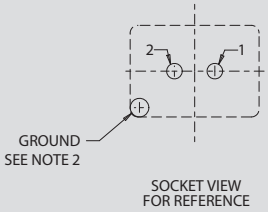
CONTACT POSITIONS			
POS	X	Y	Z° ±0.5°
A	.000 (0.00)	.490 (12.45)	0
B	.245 (6.22)	.424 (10.77)	30
C	.424 (10.77)	.245 (6.22)	60
D	.490 (12.45)	.000 (0.00)	90
E	.424 (10.77)	-.245 (-6.22)	120
F	.245 (6.22)	-.424 (-10.77)	150
G	.000 (0.00)	-.490 (-12.45)	180
H	-.245 (-6.22)	-.424 (-10.77)	210
J	-.424 (-10.77)	-.245 (-6.22)	240
K	-.490 (-12.45)	.000 (0.00)	270
M	-.424 (-10.77)	.245 (6.22)	300
N	-.245 (-6.22)	.424 (10.77)	330
P	.42 (10.67)	.242 (6.15)	45
Q	.242 (6.15)	-.242 (-6.15)	135
R	-.242 (-6.15)	-.242 (-6.15)	225
S	-.242 (-6.15)	.242 (6.15)	315

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)





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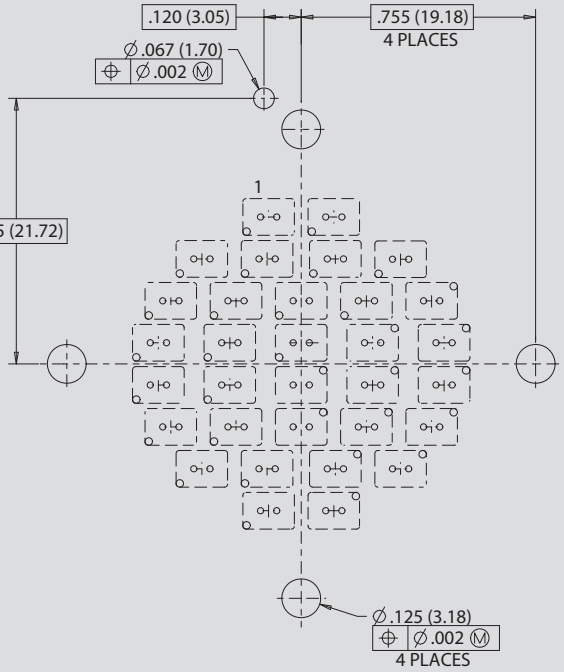
PCB Footprints

Arrangement No. 24-32V
32X VersaLink
See Note 1 and 2

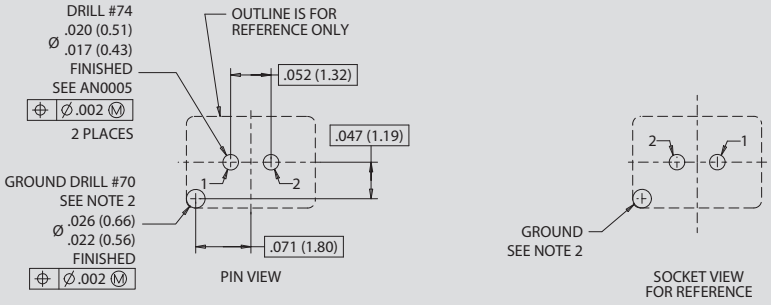


CONTACT POSITIONS		
POS	X	Y
1	-.105 (-2.67)	.473 (12.01)
2	.105 (2.67)	.473 (12.01)
3	-.320 (-8.13)	.338 (8.59)
4	-.110 (-2.79)	.338 (8.59)
5	.110 (2.79)	.338 (8.59)
6	.320 (8.13)	.338 (8.59)
7	-.420 (-10.67)	.203 (5.16)
8	-.210 (-5.33)	.203 (5.16)
9	.000 (0.00)	.203 (5.16)
10	.210 (5.33)	.203 (5.16)
11	.420 (10.67)	.203 (5.16)
12	-.460 (-11.68)	.068 (1.73)
13	-.230 (-5.84)	.068 (1.73)
14	.000 (0.00)	.068 (1.73)
15	.230 (5.84)	.068 (1.73)
16	.460 (11.68)	.068 (1.73)
17	-.460 (-11.68)	-.068 (-1.73)
18	-.230 (-5.84)	-.068 (-1.73)
19	000 (0.00)	-.068 (-1.73)
20	.230 (5.84)	-.068 (-1.73)
21	.460 (11.68)	-.068 (-1.73)
22	-.420 (-10.67)	-.203 (-5.16)
23	-.210 (-5.33)	-.203 (-5.16)
24	.000 (0.00)	-.203 (-5.16)
25	.210 (5.33)	-.203 (-5.16)
26	.420 (10.67)	-.203 (-5.16)
27	-.230 (-5.84)	-.203 (-5.16)
28	-.110 (-2.79)	-.338 (-8.59)
29	.110 (2.79)	-.338 (-8.59)
30	.320 (8.13)	-.338 (-8.59)
31	-.105 (-2.67)	-.473 (-12.01)
32	.105 (2.67)	-.473 (-12.01)

NOTES

1. Location given for each pair is the center of each pair layout.
2. Note the location of the ground leg within each arrangement.
3. See AN0005 for proper PCB design rules.
4. Recommended PCB Layouts are shown for pin cavity locations. Socket arrangements are mirrored. Ground pin location constant.

VERSALINK PAIR LAYOUT (SEE NOTE 1)



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Dimensions in Inch (millimeter) are subject to change without notice.

SERIES 794™ Versa Link

VersaLink™

Series 794 precision-machined, shielded rectangular with VersaLink™ contact technology

A rugged, versatile, multi-port, multi-gigabit connector, the Series 794 with shielded VersaLink twinax contact technology is an ideal rectangular solution for 10Gb Ethernet, 100 Gb Ethernet, USB 3.0, USB 3.2, HDMI, DisplayPort, and SATA applications. Offered in layouts from 1 to 36 high-speed VersaLink modules or in hybrid size #22D contact layouts with 1 to 8 VersaLink shielded twinax pairs. Panel mount options include float mounts, O-rings, EMI springs, and guide pins. Series 794 VersaLink shells are precision-machined aluminum and fully shielded for optimal electromagnetic compatibility.

- **Dual-lobe scoop-proof shells prevent mating damage**
- **Available with optional polarizing keys**
- **Ideal for blind-mate applications**

About Series 794

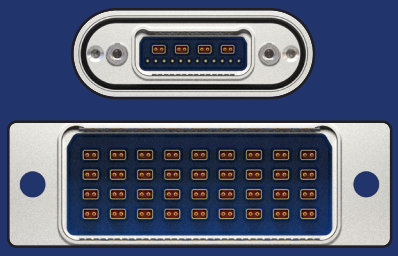
The Series 794 brings high-speed board-to-wire capability to the Glenair Series 79 family of ultraminiature rectangular connectors. The Series 794 is intended for avionics and aerospace equipment exposed to high-vibration and hostile environments.

The 794 supports VersaLink High-Speed twinax contact modules for 40 Gb Ethernet, 100 Gb Ethernet, USB 3.2, HDMI, and other protocols.

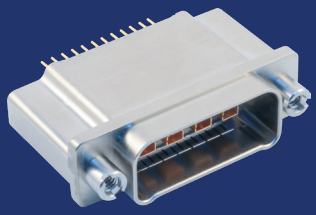
Machined aluminum alloy shells feature dual lobes for polarization. Pin contacts are recessed to prevent scooping damage. Discrete crimp contacts conform to M39029 requirements and are rear release.

EMI grounding fingers in the receptacle minimize EMI. Fluorosilicone face seals and wire grommets protect from moisture and contamination. Panel mount versions are available with an O-ring—or for improved panel bonding—a metal spring.

Vertical Board mount PCB versions available.

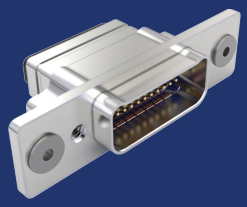


VersaLink twinax
Connectors are available with up to 36 VersaLink pairs and hybrid layouts with size #22D contacts. The Series 794 Size U with 36 ports is the largest connector in the series.

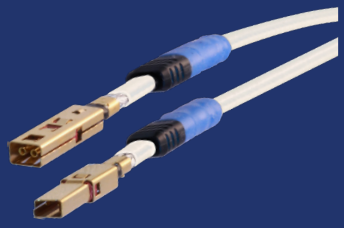


PCB Connectors
Series 794 PCB Plug or Receptacle connectors have straight PC tails. Contacts are non-removable and are epoxy sealed.

PANEL-MOUNTED CONNECTOR INTERFACE OPTIONS
Environmental O-ring sealing and gold-plated panel spring options are available for Series 794 connectors with panel mount flanges. The spring provides improved electrical bonding. O-ring seal delivers IP67 environmental protection



Blind-Mate Accommodation
Panel mount connectors have threaded mounting holes for easy installation, as well as options for guide pins and float mount hardware for blind-mate applications.



Cable Connectors
VersaLink contacts snap into Series 794 cable connectors and are easily removed with a metal removal tool.

Supported Networking Protocols
10, 25, 40, 50, and 100 Gb Ethernet

Supported Peripheral and Display Protocols	
DVI	USB 3.1 Type C
HDMI 2.1	USB 3.2
DisplayPort 2.0	USB4
SATA 3	PCIe 4
USB 3.0	QSFP28

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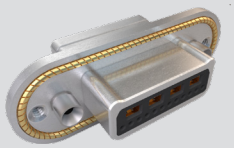
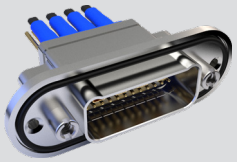
Cutaway Views	Page 54
Series 794 PCB Layouts	Page 82

794-001 Cable Plug with VersaLink Socket Contacts — Page 56

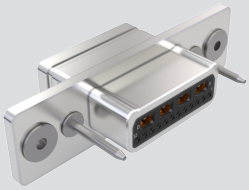
794-002 Cable Receptacle with VersaLink Pin Contacts — Page 58



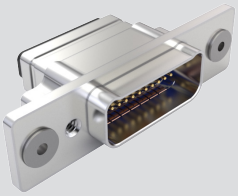
794-003 Rear Panel Mount Plug with VersaLink Socket Contacts — Page 60



794-004 Rear Panel Mount Receptacle with VersaLink Pin Contacts — Page 63

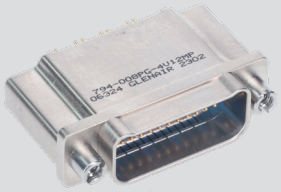


794-005 VersaLink Float Mount Plug with VersaLink Socket Contacts — Page 66

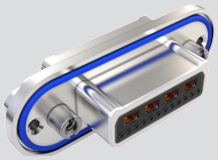


794-006 VersaLink Float Mount Receptacle with VersaLink Pin Contacts — Page 68

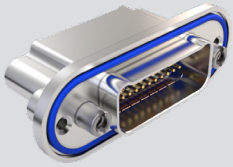
794-007 VersaLink Straight PCB Mount Plug with VersaLink Socket Contacts — Page 70



794-008 VersaLink Straight PCB Mount Receptacle with VersaLink Pin Contacts — Page 72



794-009 VersaLink Straight PCB Rear-Panel Mount, Socket Contact Plug — Page 75



794-010 VersaLink Straight PCB Rear-Panel Mount, Pin Contact Receptacle — Page 78

799-225 Backshell — Page 81

799-184 Insert Arrangements - Pin Interface Shown

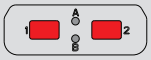
VERSALINK PIN INTERFACE SHOWN, SOCKET INTERFACE MIRRORED

VersaLink Module · 22HD Contact

A-1V
1x VersaLink (10GBase-T1 Ethernet)

B-2V
2x VersaLink (SATA 3)

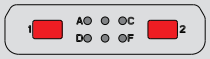
B-1V4
1X VersaLink; 4X 22HD



C-2V2
2X VersaLink; 2X 22HD

D-2V4
2X VersaLink; 4X 22HD (USB 3.1 Gen 2)

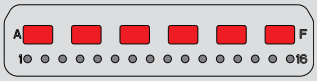
E-3V4
3X VersaLink; 4X 22HD



E-2V6
2X VersaLink; 6X 22HD

F-4V
4X VersaLink (40G Ethernet)

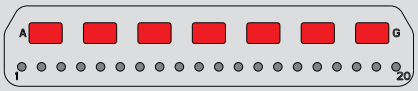
G-4V12
4X VersaLink; 12X 22HD (USB 3.1 Gen 2 Type C USB 3.2, USB4 HDMI, DisplayPort DVI Single Link)



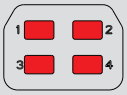
H-6V16
6X VersaLink; 16X 22HD (DVI Dual Link)

J-6V
6X VersaLink

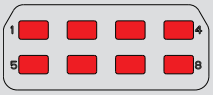
K-8V
8X VersaLink



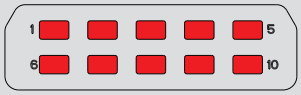
L-7V20
7X VersaLink



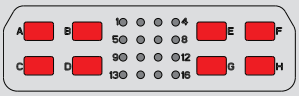
P-4V
4X VersaLink (40G ETHERNET)



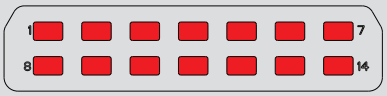
Q-8V8
8X VersaLink



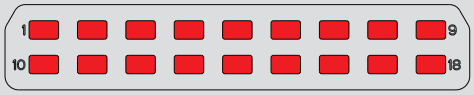
R-10V
10X VersaLink



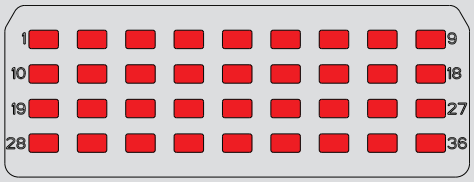
R-8V16
8X VersaLink; 16X 22HD



S-14V
14X VersaLink



T-18V
16X VersaLink



U-36V
36X VersaLink

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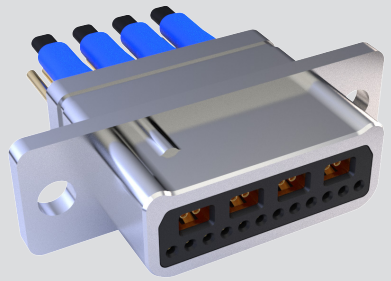
Modification Code 1279 for Optional Polarization Keys

MODIFICATION CODE 1279 POLARIZING KEYS



Plug connector with key at position L

Series 794 connectors are available with an optional polarizing key. Keyed plug connectors have a raised boss on the shell as shown in the photograph at left. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.
Note: keyed receptacles will mate with unkeyed plugs.

MOD CODE -1279 KEYING OPTION ORDERING EXAMPLE		
Step 1	Create a Series 794 Part Number	794-001SG-4V12MN
Step 2	Add dash and key position letter designator	794-001SG-4V12MN-**A**

POLARIZATION KEY POSITIONS

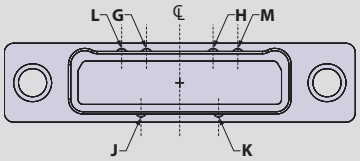
SHELL SIZE A:
KEYS B, D, E, F

SHELL SIZES B, C, D, E, F, G, J, K, P, Q, R:
KEYS A THRU F

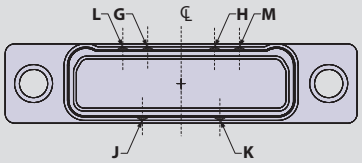
SHELL SIZES H, L,:
ALL KEYS (A THRU M)

SHELL SIZES S, T, U:
KEYS A THRU K

PLUG

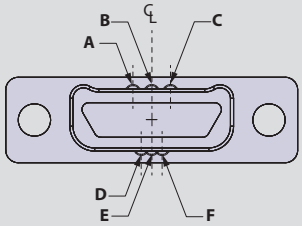


RECEPTACLE

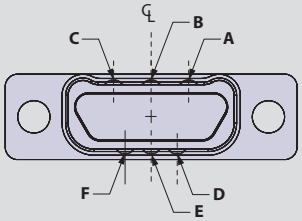


POLARIZATION KEY POSITIONS A, B, C, D, E, F FOR SHELL SIZE A, B, C, D, E, F, G, J, K, H, L

PLUG



RECEPTACLE



KEY LOCATIONS

Key Position Offset From Vertical Centerline; Plug and Receptacle

Shell Size	Position A	Position B	Position C	Position D	Position E	Position F	Position G	Position H	Position J	Position K	Position L	Position M
A	--	.00 (.00)	--	.025 (0.64)	.00 (.00)	.025 (0.64)	POSITIONS G, H, J, K, L, M ARE NOT AVAILABLE FOR SHELL SIZE A, B, C, D, E, F, G, J, K					
B	.090 (2.29)	.00 (.00)	.090 (2.29)	.050 (1.27)	.00 (.00)	.050 (1.27)						
C	.130 (3.30)	.00 (.00)	.130 (3.30)	.100 (2.54)	.00 (.00)	.100 (2.54)						
D	.180 (4.57)	.00 (.00)	.180 (4.57)	.125 (3.18)	.00 (.00)	.125 (3.18)						
E	.200 (5.08)	.00 (.00)	.200 (5.08)	.150 (3.81)	.00 (.00)	.150 (3.81)						
F	.300 (7.62)	.00 (.00)	.300 (7.62)	.250 (6.35)	.00 (.00)	.250 (6.35)						
G	.300 (7.62)	.00 (.00)	.300 (7.62)	.200 (5.08)	.00 (.00)	.200 (5.08)						
J	.450 (11.43)	.00 (.00)	.450 (11.43)	.400 (10.16)	.00 (.00)	.400 (10.16)						
K	.650 (16.51)	.00 (.00)	.650 (16.51)	.550 (13.97)	.00 (.00)	.550 (13.97)						
H	.450 (11.43)	.00 (.00)	.450 (11.43)	.500 (12.70)	.00 (.00)	.500 (12.70)	.215 (5.46)	.215 (5.46)	.250 (6.35)	.250 (6.35)	.375 (9.53)	.375 (9.53)
L	.550 (13.97)	.00 (.00)	.550 (13.97)	.600 (15.24)	.00 (.00)	.600 (15.24)	.315 (8.00)	.315 (8.00)	.350 (8.89)	.350 (8.89)	.475 (12.07)	.475 (12.07)
P	.025 (0.64)	.00 (.00)	.025 (0.64)	.100 (2.54)	.00 (.00)	.100 (2.54)	POSITIONS G, H, J, K, L, M ARE NOT AVAILABLE FOR SHELL SIZE P, Q, R					
Q	.200 (5.08)	.00 (.00)	.200 (5.08)	.325 (8.26)	.00 (.00)	.325 (8.26)						
R	.375 (9.53)	.00 (.00)	.375 (9.53)	.500 (12.70)	.00 (.00)	.500 (12.70)						
S	.550 (13.97)	.00 (.00)	.550 (13.97)	.600 (15.24)	.00 (.00)	.600 (15.24)	.315 (8.00)	.315 (8.00)	.350 (8.89)	.350 (8.89)	POSITIONS L, M ARE NOT AVAILABLE FOR SHELL SIZE S,T, U	
T	.700 (17.78)	.00 (.00)	.700 (17.78)	.750 (19.05)	.00 (.00)	.750 (19.05)	.315 (8.00)	.315 (8.00)	.350 (8.89)	.350 (8.89)		
U	.700 (17.78)	.00 (.00)	.700 (17.78)	.750 (19.05)	.00 (.00)	.750 (19.05)	.315 (8.00)	.315 (8.00)	.350 (8.89)	.350 (8.89)		

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Dimensions in Inch (millimeter) are subject to change without notice.

Material and Finish Options

STANDARD MATERIALS AND FINISHES

Description	Material	Finish
Contacts	Copper alloy	50 microinches gold over nickel
Socket contact hood (#22HD only)	Stainless steel	Passivated
Shell	Aluminum alloy 6061	See table below
Insulators	High-grade rigid dielectric	None
Interfacial seal and grommet	Fluorosilicone blend elastomer	None
O-ring, non-conductive	Fluorosilicone blend elastomer	None
O-ring, conductive	Silver-plated aluminum-filled fluorosilicone	None
EMI spring	Beryllium copper	Nickel
Retention clips	Beryllium copper	Nickel
Hardware	300 series stainless steel	Passivated
Potting compound	Epoxy	None

The United States Department of Defense (DoD) has issued a directive to minimize or eliminate the use of cadmium and hexavalent cadmium on DoD equipment. The DoD has approved nickel-PTFE and zinc-nickel shell platings as replacements for cadmium plating. European Union Directive 2011/65/EU, with amendment 2015/83, on Restriction of the use of certain Hazardous Substances (RoHS) states that certain types of equipment (primarily consumer products such as personal computers) shall not contain lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, DEHP, BBP, DBP, OR DIBP.

The three standard shell finish options in this catalog comply with RoHS and DoD directives. Please contact the factory to verify all components meet RoHS compliance regulations.

STANDARD CONNECTOR SHELL FINISH CODES

Plating Code	Type	Salt Spray Hours	Application Notes
M	Electroless Nickel	48	Standard finish for Series 79 connectors. Approved for space programs. Excellent conductivity. Reflective. RoHS compliant. ***ASTM B733 Category SC2***
MT	Nickel-PTFE	500	Excellent corrosion resistance and durability. Excellent conductivity. Matte, light grey appearance. Solderable. RoHS compliant. ***SAE AMS2454***
ZR	Black Zinc-Nickel	500	DoD-approved alternative to olive-drab cadmium. Excellent corrosion resistance and good electrical conductivity. Non-reflective black. RoHS compliant, ***ASTM B841 Type D***

ADDITIONAL CONNECTOR SHELL FINISH CODES

Plating Code	Type	Salt Spray Hours	Application Notes
Z2	Gold	48	RoHS compliant. ***MIL-DTL-45204***
J	Cadmium/ Gold Chromate	500	Not allowed in space applications. Excellent conductivity and corrosion resistance. Not RoHS compliant. ***SAE AMS-QQ-P-416***
NF	Cadmium, Olive Drab Chromate	500	Not allowed in space applications. Excellent conductivity and corrosion resistance. Not RoHS compliant. ***SAE AMS-QQ-P-416***
C	Black Anodize	336	Non-conductive, not suitable for EMI-protected equipment. Cadmium-free. RoHS compliant. ***MIL-A-8625***

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Dimensions in Inch (millimeter) are subject to change without notice.

Outgassing Modification Codes

Is the Series 794 qualified and approved for space flight?

The new Series 794 connector is a high-speed VersaLink contact version of the space-approved Series 791 connector.

Do Series 794 connectors meet outgassing requirements?

Connectors must be vacuum baked to guarantee compliance with outgassing limits established by NASA and military space programs. The requirements are 1.0 % Total Mass Loss (TML) and 0.1% Collected Volatile Condensible Material (CVCM). ASTM E595 defines the test procedure.

What is vacuum bakeout?

Connectors are placed in a calibrated thermal vacuum oven/chamber for 24 hours at +125°C and a vacuum of 10-6 Torr.

Are Series 794 connectors non-magnetic?

Series 794 connectors meet the 2.0µ magnetic permeability requirement of EIA-364-54. Additional residual magnetism screening is available on request.

Series 794 connectors are available with upgraded screening and vacuum bakeout for high-reliability space programs. Find the appropriate code from the following table and add the code to the part number.
Example: 794-001BR-10VML-A-*429C*

SPACE GRADE MODIFICATION CODES

Modification Code	NASA Screening Level: Level 1 Highest Reliability	NASA Screening Level: Level 2 High Reliability	Vacuum Bakeout 24 hours +125°C
429		●	
429A		●	●
429B	●		
429C	●		●
186M			●

NASA SCREENING REQUIREMENTS (EEE-INST-002 TABLE 2C)

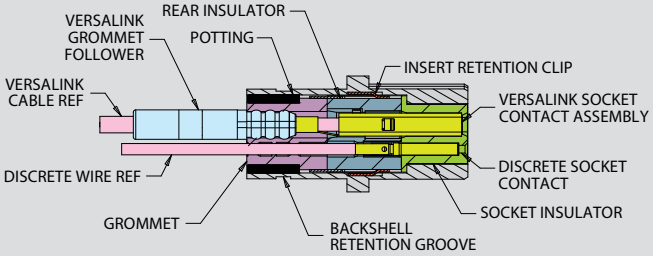
Inspection/Test	NASA Screening Level: Level 1 Highest Reliability	NASA Screening Level: Level 2 High Reliability
Visual Inspection	100% 10X magnification	100% 10X magnification
Mechanical Inspection	2 connectors 10X magnification	2 connectors 10X magnification
DWV/IR	2 connectors	2 connectors
Contact Separation Force (non-removable contacts)	2 connectors	Not required
Mating and Unmating Force	2 connectors	Not required

OUTGASSING PROPERTIES OF MATERIALS USED IN SERIES 79 CONNECTORS

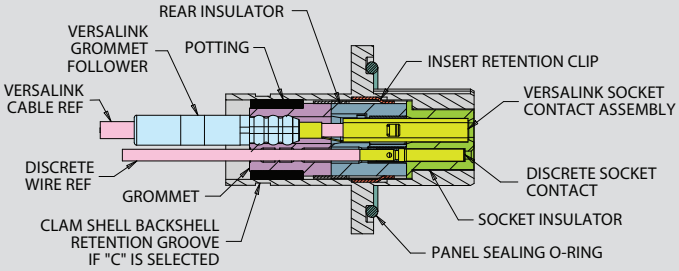
Component	Material	TML %	TCVML %	Test Reference
Front and Rear Insulator, right angle PCB Trays	Liquid Crystal Polymer Vectra C130	0.03	0.0	NASA Test # GSC17478
Rear Grommet Interfacial Seal	Blended flourosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% flourosilicone per MIL-R-25988	0.48	0.14	Glenair testing conducted at NuSil Technology 02/27/2001
Front-To-Rear Insulator Bonding Material	Eccobond 104 A/B	0.52	0.08	Emerson & Cuming Data Sheet
Insulator-to-Rubber Bonding Material	DC3145 RTV, per MIL-A-46146	1.74	0.90	NASA Test GSFC0191
PCB Trays (Machined Ultem)	Polyetherimide, Ultem 2300	0.43	0.01	NASA Test GSC19820
White Epoxy Ink for Silkscreening	Markem 7224 White	0.49	0.03	NASA Test #GSC19899
Potting Compound, PC Tail Connectors	Hysol C9-4215	0.48	0.01	Glenair Test
Panel Gasket	Silver-filled Fruorosilicone, Cho-Seal 1287	0.63	0.03	NASA test GSC15165

Plug Cutaway Views

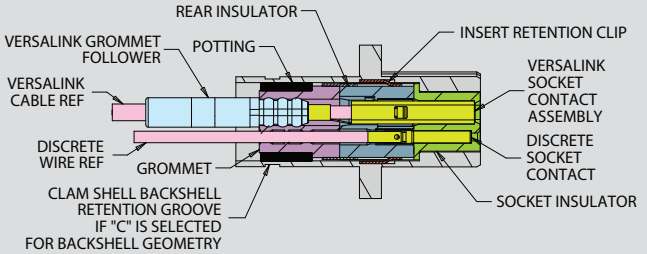
794-001 CABLE PLUG



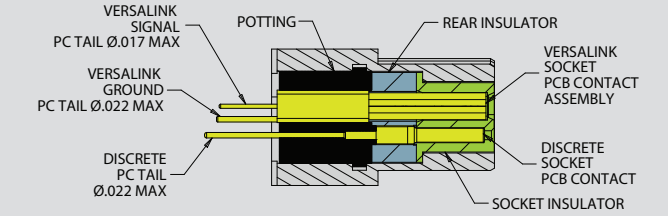
794-003 REAR PANEL-MOUNT PLUG



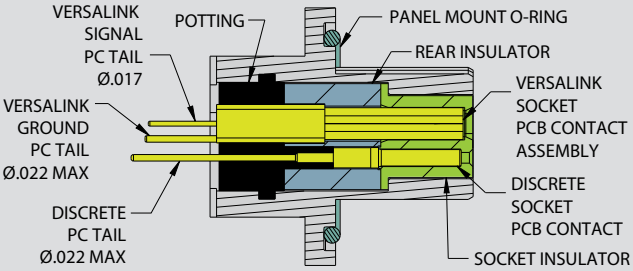
794-005 FLOAT MOUNT PLUG



794-007 PCB-MOUNT PLUG



794-009 PCB-MOUNT PLUG



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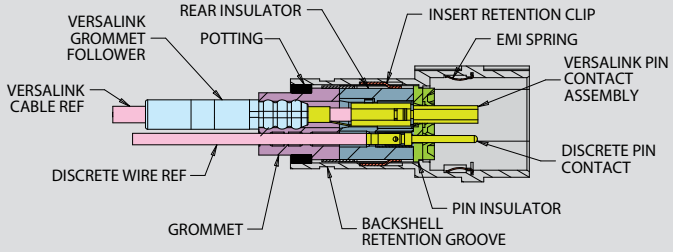
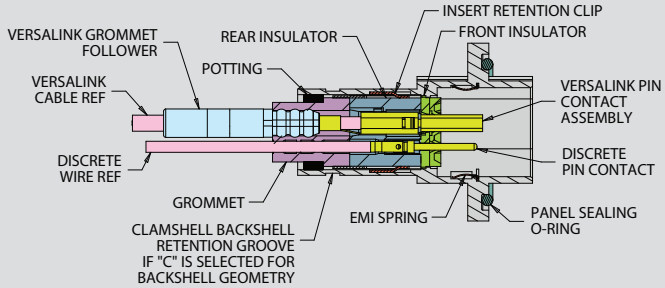
Receptacle Cutaway Views

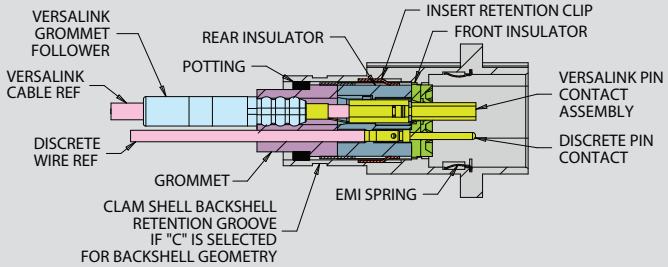
794-002 CABLE RECEPTACLE



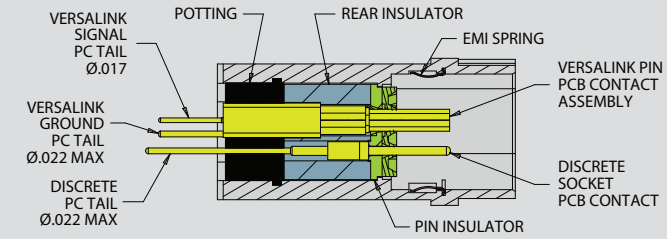
794-004 REAR PANEL-MOUNT RECEPTACLE



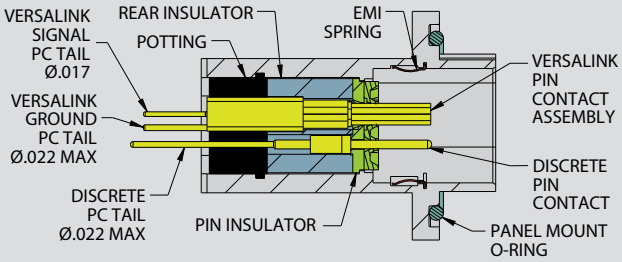
794-006 FLOAT-MOUNT RECEPTACLE



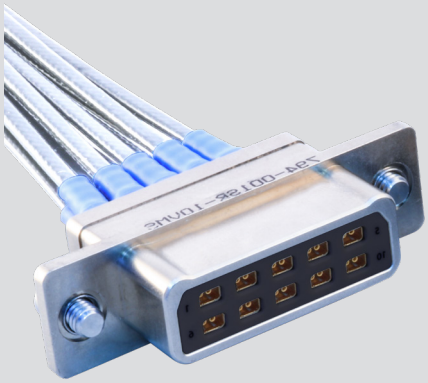
794-008 PCB-MOUNT RECEPTACLE



794-010 PCB-MOUNT RECEPTACLE



794-001 Cable Mount Plug with Socket Contacts



PART NUMBER DEVELOPMENT

Sample Part Number	794-001	B	R-10V	M	L	-A
Series	**794-001** = Cable Mount Plug					
Contacts		**B** = Socket, Less Contacts				
Shell Size-Insert Arrangement			See Insert Arrangement Table			
Shell Finish				**M** = Electroless Nickel **MT** = Nickel Teflon		
Hardware Option					**L** = Low Profile Captive Jackscrew **K** = Extended Captive Jackscrew **N** = No Hardware **P** = Jackpost **S** = Low Profile Captive Screwlock **T** = Extended Captive Screwlock	
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)					

MATERIALS AND FINISHES

- 853-046 VersaLink Module:
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- 850-095 #22HD Contact:
  - » Contacts: copper alloy 50 microinches gold over nickel
  - » Socket contact hood: stainless steel passivated
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Grommet: fluorosilicone blend elastomer
- Retention clips: beryllium copper / nickel
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to 200°C

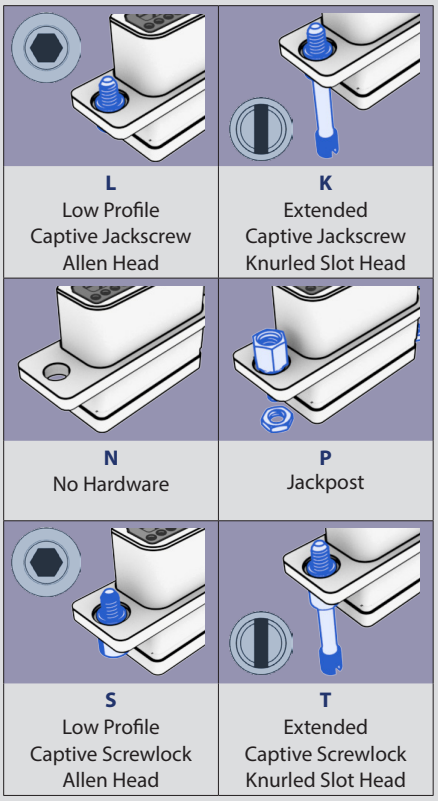
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for polarizing key options on page 51.
3. Refer to Series 794 material & finish options on page 52.
4. Glenair strongly recommends using 799-225 on page 81 or equivalent backshell.
5. Contacts are ordered separately. VersaLink contacts may be ordered pre-terminated via 8574-0001, or contact the factory for complete cable assemblies.

INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

HARDWARE



1. Thread size is #2-56 for shell sizes A,B,C,D,E,F,G,J,K.
   Thread size is #4-40 for shell sizes H & L.
   Thread size is #8-32 for shell sizes P,Q,R,S,T,U.
2. Screwlocks allow full mating of the connectors before the screws are fastened. Jackscrews must be tightened to mate the connectors.

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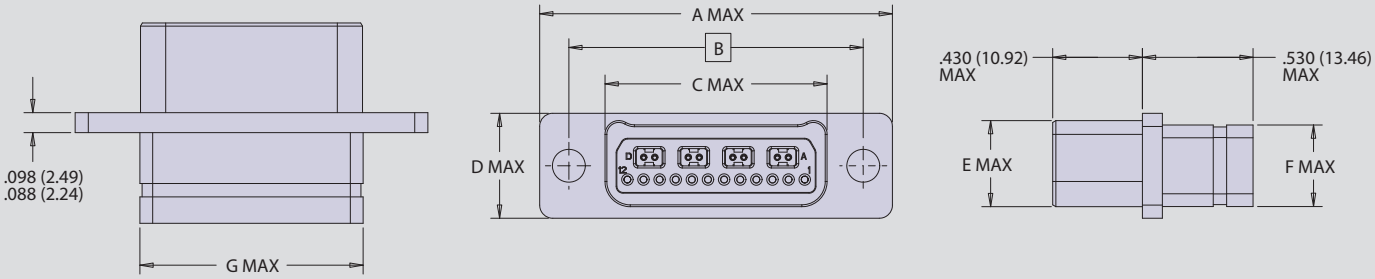
794-001 Cable Mount Plug with Socket Contacts

794-001 VERSALINK CABLE MOUNT SOCKET PLUG CONNECTOR



DIMENSIONS							
SHELL SIZE	A MAX	B BASIC	C MAX	D MAX	E MAX	F MAX	G MAX
A	1.035 (26.29)	0.750 (19.05)	0.410 (10.41)	0.415 (10.54)	0.320 (8.13)	0.310 (7.87)	0.390 (9.91)
B	1.185 (30.10)	0.900 (22.86)	0.560 (14.22)	0.415 (10.54)	0.320 (8.13)	0.310 (7.87)	0.540 (13.72)
C	1.335 (33.91)	1.050 (26.67)	0.710 (18.03)	0.415 (10.54)	0.320 (8.13)	0.310 (7.87)	0.690 (17.53)
D	1.410 (35.81)	1.125 (28.58)	0.785 (19.94)	0.415 (10.54)	0.320 (8.13)	0.310 (7.87)	0.790 (20.07)
E	1.560 (39.62)	1.275 (32.39)	0.935 (23.75)	0.415 (10.54)	0.320 (8.13)	0.310 (7.87)	0.940 (23.88)
F	1.710 (43.43)	1.425 (36.20)	1.085 (27.56)	0.415 (10.54)	0.320 (8.13)	0.310 (7.87)	1.090 (27.69)
G	1.673 (42.49)	1.388 (35.26)	1.047 (26.59)	0.500 (12.70)	0.420 (10.67)	0.390 (9.91)	1.090 (27.69)
H	2.275 (57.79)	1.900 (48.26)	1.437 (36.50)	0.520 (13.21)	0.430 (10.92)	0.420 (10.67)	1.440 (36.58)
J	2.085 (52.96)	1.800 (45.72)	1.460 (37.08)	0.415 (10.54)	0.320 (8.13)	0.310 (7.87)	1.450 (36.83)
K	2.460 (62.48)	2.175 (55.25)	1.835 (46.61)	0.415 (10.54)	0.320 (8.13)	0.310 (7.87)	1.840 (46.74)
L	2.511 (63.78)	2.136 (54.25)	1.673 (42.49)	0.520 (13.21)	0.430 (10.92)	0.420 (10.67)	1.675 (42.55)
P	1.455 (36.96)	1.075 (27.31)	0.615 (15.62)	0.630 (16.00)	0.513 (13.03)	0.475 (12.07)	0.610 (15.49)
Q	1.830 (46.48)	1.450 (36.83)	0.990 (25.15)	0.630 (16.00)	0.513 (13.03)	0.475 (12.07)	0.985 (25.02)
R	2.205 (56.01)	1.825 (46.36)	1.365 (34.67)	0.630 (16.00)	0.513 (13.03)	0.475 (12.07)	1.360 (34.54)
S	2.580 (65.53)	2.200 (55.88)	1.740 (44.20)	0.630 (16.00)	0.513 (13.03)	0.475 (12.07)	1.735 (44.07)
T	2.955 (75.06)	2.575 (65.41)	2.115 (53.72)	0.630 (16.00)	0.513 (13.03)	0.475 (12.07)	2.110 (53.59)
U	2.955 (75.06)	2.575 (65.41)	2.115 (53.72)	0.990 (25.15)	0.888 (22.56)	0.850 (21.59)	2.110 (53.59)

VERSALINK CONTACTS SOLD SEPARATELY	
Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY		
#22HD Socket	Wire size #22–#28	**850-095-1**
#22HD Socket	Wire size #26–#30	**850-095-2**

COMPATIBLE SPEEDLINE CABLE	
Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

794-002 Cable Mount Receptacle with Pin Contacts

PART NUMBER DEVELOPMENT

Sample Part Number	794-002	A	R-10V	M	N	-A
Series	**794-002** = Cable Mount Receptacle					
Contacts	**A** = Pin, Less Contacts					
Shell Size-Insert Arrangement	See Insert Arrangement Table (see page 80 for layout)					
Shell Finish	**M** = Electroless Nickel **MT** = Nickel Teflon					
Hardware Option	**L** - Low Profile captive Jackscrew **K** = Extended Captive Jackscrew **N** = No Hardware **P** = Jackpost **S** = Low Profile Captive Screwlock **T** = Extended Captive Screwlock					
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none; (see mod code 1279)					

MATERIALS AND FINISHES

- 853-045 VersaLink Module:
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- 850-094 #22HD Contact:
  - » Contacts: copper alloy 50 microinches gold over nickel
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Interfacial seal and grommet: fluorosilicone blend elastomer
- EMI spring: beryllium copper nickel
- Retention clips: beryllium copper/nickel
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to 200°C

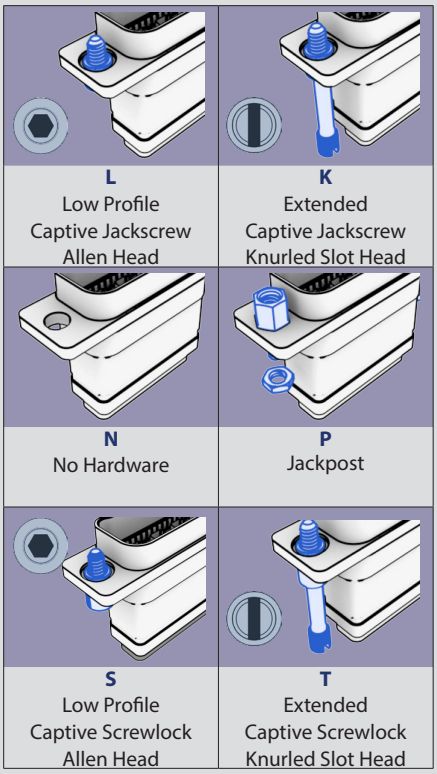
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for polarizing key options on page 51.
3. Refer to Refer to Series 794 material & finish options on page 52.
4. Glenair strongly recommends using 799-225 on page 81 or equivalent backshell.
5. Contacts are ordered separately. VersaLink contacts may be ordered pre-terminated via 8574-0001, or contact the factory for complete cable assemblies.

INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

HARDWARE



1. Thread size is #2-56 for shell sizes A,B,C,D,E,F,G,J,K.
   Thread size is #4-40 for shell sizes H & L.
   Thread size is #8-32 for shell sizes P,Q,R,S,T,U.
2. Screwlocks allow full mating of the connectors before the screws are fastened. Jackscrews must be tightened to mate the connectors.

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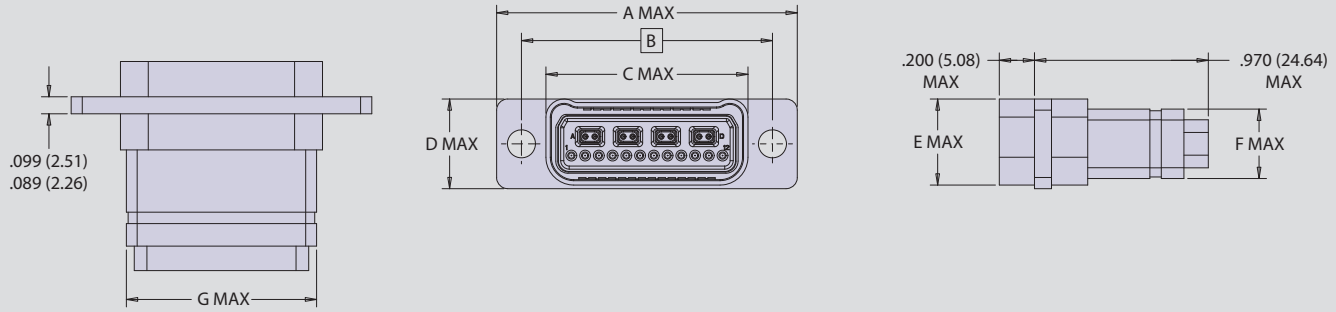
Dimensions in Inch (millimeter) are subject to change without notice.

794-002 Cable Mount Receptacle with Pin Contacts

794-002 VERSALINK CABLE MOUNT PIN RECEPTACLE CONNECTOR



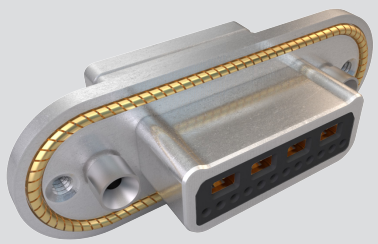
DIMENSIONS							
SHELL SIZE	A MAX	B BASIC	C MAX	D MAX	E MAX	F MAX	G MAX
A	1.040 (26.42)	0.750 (19.05)	0.490 (12.45)	0.415 (10.54)	.388 (9.86)	0.310 (7.87)	0.390 (9.91)
B	1.190 (30.23)	0.900 (22.86)	0.640 (16.26)	0.415 (10.54)	0.388 (9.86)	0.310 (7.87)	0.540 (13.72)
C	1.340 (34.04)	1.050 (26.67)	0.790 (20.07)	0.415 (10.54)	0.388 (9.86)	0.310 (7.87)	0.690 (17.53)
D	1.415 (35.94)	1.125 (28.58)	0.865 (21.97)	0.415 (10.54)	0.388 (9.86)	0.310 (7.87)	0.790 (20.07)
E	1.565 (39.75)	1.275 (32.39)	1.015 (25.78)	0.415 (10.54)	0.388 (9.86)	0.310 (7.87)	0.940 (23.88)
F	1.715 (43.56)	1.425 (36.20)	1.165 (29.59)	0.415 (10.54)	0.388 (9.86)	0.310 (7.87)	1.090 (27.69)
G	1.678 (42.62)	1.388 (35.26)	1.127 (28.63)	0.510 (12.95)	0.452 (11.48)	0.390 (9.91)	1.090 (27.69)
H	2.275 (57.79)	1.900 (48.26)	1.516 (38.51)	0.520 (13.21)	0.470 (11.94)	0.420 (10.67)	1.440 (36.58)
J	2.090 (53.09)	1.800 (45.72)	1.540 (39.12)	0.415 (10.54)	0.388 (9.86)	0.310 (7.87)	1.450 (36.83)
K	2.465 (62.61)	2.175 (55.25)	1.915 (48.64)	0.415 (10.54)	0.388 (9.86)	0.310 (7.87)	1.840 (46.74)
L	2.511 (63.78)	2.136 (54.25)	1.752 (44.50)	0.520 (13.21)	0.470 (11.94)	0.420 (10.67)	1.675 (42.55)
P	1.455 (36.96)	1.075 (27.31)	0.690 (17.53)	0.630 (16.00)	0.583 (14.81)	0.469 (11.91)	0.610 (15.49)
Q	1.830 (46.48)	1.450 (36.83)	1.065 (27.05)	0.630 (16.00)	0.583 (14.81)	0.469 (11.91)	0.985 (25.02)
R	2.205 (56.01)	1.825 (46.36)	1.440 (36.58)	0.630 (16.00)	0.583 (14.81)	0.469 (11.91)	1.360 (34.54)
S	2.580 (65.53)	2.200 (55.88)	1.815 (46.10)	0.630 (16.00)	0.583 (14.81)	0.469 (11.91)	1.735 (44.07)
T	2.955 (75.06)	2.575 (65.41)	2.190 (55.63)	0.630 (16.00)	0.583 (14.81)	0.469 (11.91)	2.110 (53.59)
U	2.955 (75.06)	2.575 (65.41)	2.190 (55.63)	0.990 (25.15)	0.958 (24.33)	0.849 (21.56)	2.110 (53.59)

VERSALINK CONTACTS SOLD SEPARATELY	
Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY		
#22HD Pin	Wire size #22–#28	**850-094-1**
#22HD Pin	Wire size #26–#30	**850-094-2**

COMPATIBLE SPEEDLINE CABLE	
Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

794-003 Rear Panel Mount, Socket Contact Plug



PART NUMBER DEVELOPMENT

Sample Part Number	794-003	B	G-4V12	M	P	S	C	-A
Series	**794-003** = Rear Panel Mount Plug							
Contacts		**B** = Socket, Less Contacts						
Shell Size-Insert Arrangement			See Insert Arrangement Table					
Shell Finish				**M** = Electroless Nickel **MT** = Nickel Teflon				
Hardware Option					**N** = No Hardware **P** = Jackpost **G** = Guide Pin			
O-Ring Options						**C** = Conductive **S** = Metal EMI spring **F** = Fluorosilicone **N** = None		
Backshell Geometry							**C** = Clam Shell **S** = Single Piece (Screw Mount)	
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)							

MATERIALS AND FINISHES

- 853-046 VersaLink Module
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- 850-095 #22HD Contact
  - » Contacts: copper alloy 50 microinches gold over nickel
  - » Socket contact hood: stainless steel passivated
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Grommet: fluorosilicone blend elastomer
- O-ring, non-conductive: fluorosilicone blend elastomer
- O-ring, conductive: silver-plated aluminum-filled fluorosilicone
- Retention clips: beryllium copper / nickel
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to 200°C

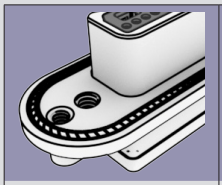
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for polarizing key options on page 51.
3. Refer to Series 794 material & finish for unshielded wire layouts on page 52.
4. Glenair strongly recommends using 799-225 on page 81 or equivalent backshell.
5. "K" dimension N/A when "S" backshell geometry is selected.
6. Contacts are ordered separately. VersaLink contacts may be ordered pre-terminated via 8574-0001, or contact the factory for complete cable assemblies.

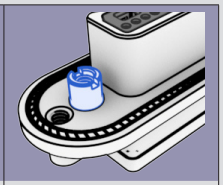
INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

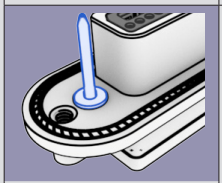
HARDWARE



N
No Hardware
See Note 1



P
Jackpost
See Note 2



G
Guide Pin
See Note 3

1. Thread size is #6-32 for shell sizes A, B, C, D, E, F, G, J, K
   Thread size is #8-32 for shell sizes H & L
   Thread size is #10-32 for shell sizes P, Q, R, S, T, U
2. Thread size is #2-56 for shell sizes A, B, C, D, E, F, G, J, K
   Thread size is #4-40 for shell sizes H & L
   Thread size is #8-32 for shell sizes P, Q, R, S, T, U
3. Connector supplied with non-removable guide pin

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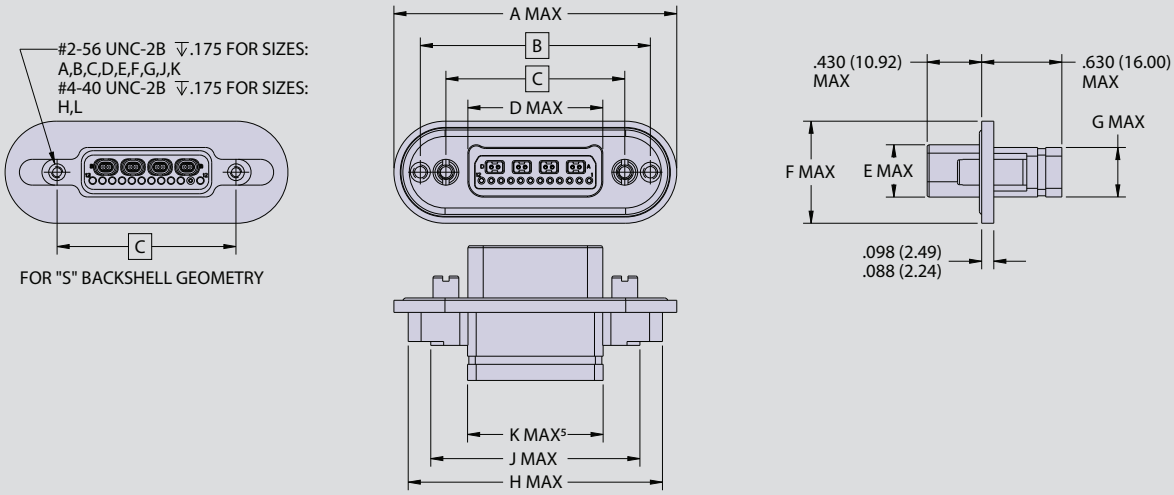
794-003 Rear Panel Mount, Socket Contact Plug

794-003 VERSALINK CABLE MOUNT PIN RECEPTACLE CONNECTOR



DIMENSIONS

SHELL SIZE	A MAX	B BSC	C BSC	D MAX	E MAX	F MAX	G MAX	H MAX	J MAX	K MAX[5]
A	1.565 (39.75)	1.150 (29.21)	0.750 (19.05)	0.410 (10.41)	0.320 (8.13)	0.710 (18.03)	0.310 (7.87)	1.345 (34.16)	0.960 (24.38)	0.390 (9.91)
B	1.715 (43.56)	1.300 (33.02)	0.900 (22.86)	0.560 (14.22)	0.320 (8.13)	0.710 (18.03)	0.310 (7.87)	1.495 (37.97)	1.110 (28.19)	0.540 (13.72)
C	1.865 (47.37)	1.450 (36.83)	1.050 (26.67)	0.710 (18.03)	0.320 (8.13)	0.710 (18.03)	0.310 (7.87)	1.645 (41.78)	1.260 (32.00)	0.690 (17.53)
D	1.940 (49.28)	1.525 (38.74)	1.125 (28.58)	0.785 (19.94)	0.320 (8.13)	0.710 (18.03)	0.310 (7.87)	1.745 (44.32)	1.360 (34.54)	0.790 (20.07)
E	2.090 (53.09)	1.675 (42.55)	1.275 (32.39)	0.935 (23.75)	0.320 (8.13)	0.710 (18.03)	0.310 (7.87)	1.895 (48.13)	1.510 (38.35)	0.940 (23.88)
F	2.240 (56.90)	1.825 (46.36)	1.425 (36.20)	1.085 (27.56)	0.320 (8.13)	0.710 (18.03)	0.310 (7.87)	2.045 (51.94)	1.660 (42.16)	1.090 (27.69)
G	2.200 (55.88)	1.785 (45.34)	1.388 (35.26)	1.060 (26.92)	0.420 (10.67)	0.800 (20.32)	0.390 (9.91)	1.983 (50.37)	1.633 (41.48)	1.060 (26.92)
H	2.835 (72.01)	2.375 (60.33)	1.900 (48.26)	1.440 (36.58)	0.430 (10.92)	0.820 (20.83)	0.420 (10.67)	2.590 (65.79)	2.240 (56.90)	1.440 (36.58)
J	2.615 (66.42)	2.200 (55.88)	1.800 (45.72)	1.460 (37.08)	0.320 (8.13)	0.710 (18.03)	0.310 (7.87)	2.395 (60.83)	2.010 (51.05)	1.450 (36.83)
K	2.990 (75.95)	2.575 (65.41)	2.175 (55.25)	1.835 (46.61)	0.320 (8.13)	0.710 (18.03)	0.310 (7.87)	2.795 (70.99)	2.410 (61.21)	1.840 (46.74)
L	3.075 (78.11)	2.611 (66.32)	2.136 (54.25)	1.675 (42.55)	0.430 (10.92)	0.820 (20.83)	0.420 (10.67)	2.826 (71.78)	2.476 (62.89)	1.675 (42.55)
P	2.220 (56.39)	1.699 (43.15)	1.075 (27.31)	0.615 (15.62)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	1.965 (49.91)	1.525 (38.74)	1.320 (33.53)
Q	2.595 (65.91)	2.074 (52.68)	1.450 (36.83)	0.990 (25.15)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	2.340 (59.44)	1.900 (48.26)	1.695 (43.05)
R	2.970 (75.44)	2.449 (62.20)	1.825 (46.36)	1.365 (34.67)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	2.715 (68.96)	2.275 (57.79)	2.070 (52.58)
S	3.345 (84.96)	2.824 (71.73)	2.200 (55.88)	1.740 (44.20)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	3.090 (78.49)	2.650 (67.31)	2.445 (62.10)
T	3.720 (94.49)	3.199 (81.25)	2.575 (65.41)	2.115 (53.72)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	3.465 (88.01)	3.025 (76.84)	2.820 (71.63)
U	3.720 (94.49)	3.199 (81.25)	2.575 (65.41)	2.115 (53.72)	0.888 (22.56)	1.300 (33.02)	0.850 (21.59)	3.465 (88.01)	3.025 (76.84)	2.820 (71.63)

VERSALINK CONTACTS SOLD SEPARATELY

Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY

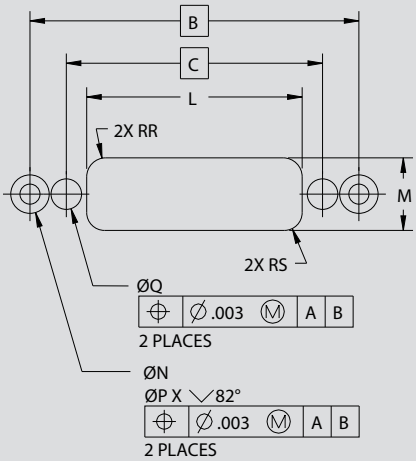
#22HD Socket	Wire size #22–#28	**850-095-1**
#22HD Socket	Wire size #26–#30	**850-095-2**

COMPATIBLE SPEEDLINE CABLE

Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

794-003 Rear Panel Mount, Socket Contact Plug

794-003 PANEL CUT-OUT DIMENSIONS



PANEL CUT-OUT DIMENSIONS									
SHELL SIZE	B BSC	C BSC	L ±.002 (±.051)	M ±.002 (±.051)	N ±.003 (±.076)	P	Q ±.003 (±.076)	RR ±.002 (±.051)	RS ±.002 (±.051)
A	1.150 (29.21)	0.750 (19.05)	0.505 (12.83)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
B	1.300 (33.02)	0.900 (22.86)	0.655 (16.64)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
C	1.450 (36.83)	1.050 (26.67)	0.805 (20.45)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
D	1.525 (38.74)	1.125 (28.58)	0.880 (22.35)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
E	1.675 (42.55)	1.275 (32.39)	1.030 (26.16)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
F	1.825 (46.36)	1.425 (36.20)	1.180 (29.97)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
G	1.786 (45.36)	1.388 (35.26)	1.142 (29.01)	0.506 (12.85)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
H	2.375 (60.33)	1.900 (48.26)	1.531 (38.89)	0.521 (13.23)	0.144 (3.66)	0.239 (6.07)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
J	2.200 (55.88)	1.800 (45.72)	1.555 (39.50)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
K	2.575 (65.41)	2.175 (55.25)	1.930 (49.02)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
L	2.611 (66.32)	2.136 (54.25)	1.767 (44.88)	0.521 (13.23)	0.144 (3.66)	0.239 (6.07)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
P	1.699 (43.15)	1.075 (27.31)	0.725 (18.42)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
Q	2.074 (52.68)	1.450 (36.83)	1.100 (27.94)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
R	2.449 (62.20)	1.825 (46.36)	1.475 (37.47)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
S	2.840 (72.14)	2.200 (55.88)	1.850 (46.99)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
T	3.199 (81.25)	2.575 (65.41)	2.225 (56.52)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
U	3.199 (81.25)	2.575 (65.41)	2.225 (56.52)	0.998 (25.35)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)

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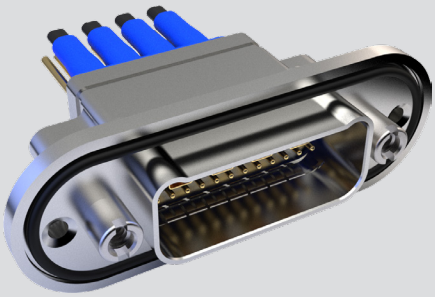
Dimensions in Inch (millimeter) are subject to change without notice.

794-004 Rear Panel Mount, Pin Contact Receptacle



PART NUMBER DEVELOPMENT

Sample Part Number	794-004	A	G-4V12	M	P	F	C	-A
Series	**794-004** = Rear Panel Mount Receptacle							
Contacts	**A** = Pin, Less Contacts							
Shell Size-Insert Arrangement	See Insert Arrangement Table							
Shell Finish	**M** = Electroless Nickel **MT** = Nickel Teflon							
Hardware Option	**N** = No Hardware **P** = Jackpost **B** = Guide Bushing							
O-ring Options	**C** = Conductive **S** = Metal EMI spring **F** = Fluorosilicone **N** = None							
Backshell Geometry	**C** = Clam Shell **S** = Single Piece (Screw Mount)							
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)							

MATERIALS AND FINISHES

- 853-045 VersaLink Module
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- 850-094 #22HD Contact
  - » Contacts: copper alloy 50 microinches gold over nickel
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Grommet: fluorosilicone blend elastomer
- O-ring, non-conductive: fluorosilicone blend elastomer
- O-ring, conductive: silver-plated aluminum-filled fluorosilicone
- EMI spring: beryllium copper nickel
- Retention clips: beryllium copper / nickel
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to 200°C

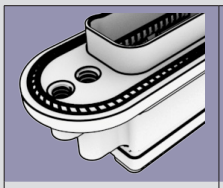
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for polarizing key options on page 51.
3. Refer to Series 794 material & finish for unshielded wire layouts on page 52.
4. "K" dimension N/A when "S" backshell geometry is selected.
5. Glenair strongly recommends using 799-225 on page 81 or equivalent backshell.
6. Contacts are ordered separately. VersaLink contacts may be ordered pre-terminated via 8574-0001, or contact the factory for complete cable assemblies.

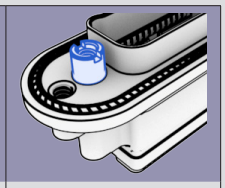
INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

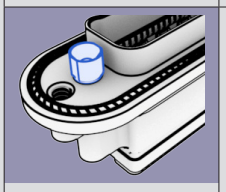
HARDWARE



N
No Hardware
See Note 1



P
Jackpost
See Note 2



B
Guide Bushing
See Note 3

1. Thread size is #6-32 for shell sizes A,B,C,D,E,F,G,J,K
   Thread size is #8-32 for shell sizes H & L
   Thread size is #10-32 for shell sizes P,Q,R,S,T,U
2. Thread size is #2-56 for shell sizes A,B,C,D,E,F,G,J,K
   Thread size is #4-40 for shell sizes H & L
   Thread size is #8-32 for shell sizes P,Q,R,S,T,U
3. Connector supplied with non-removable guide bushing

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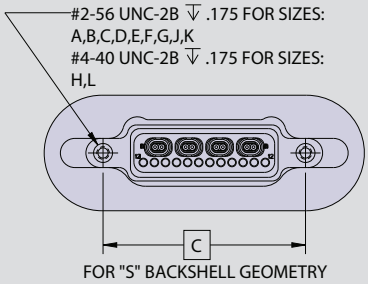
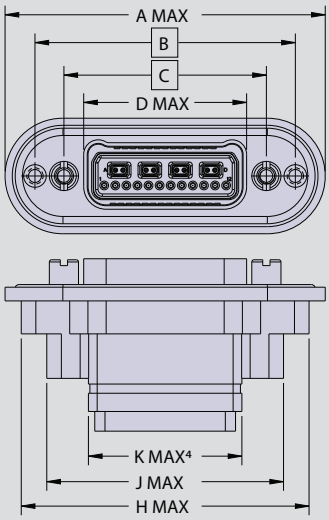
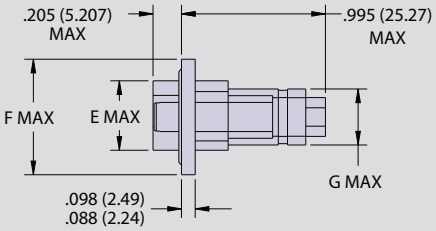
794-004 Rear Panel Mount, Pin Contact Receptacle

794-004 VERSALINK REAR PANEL MOUNT RECEPTACLE PIN CABLE CONNECTOR







DIMENSIONS										
SHELL SIZE	A MAX	B BSC	C BSC	D MAX	E MAX	F MAX	G MAX	H MAX	J MAX	K MAX[4]
A	1.565 (39.75)	1.150 (29.21)	0.750 (19.05)	0.490 (12.45)	0.364 (9.25)	0.710 (18.03)	0.310 (7.87)	1.345 (34.16)	0.960 (24.38)	0.390 (9.91)
B	1.715 (43.56)	1.300 (33.02)	0.900 (22.86)	0.640 (16.26)	0.364 (9.25)	0.710 (18.03)	0.310 (7.87)	1.495 (37.97)	1.110 (28.19)	0.540 (13.72)
C	1.865 (47.37)	1.450 (36.83)	1.050 (26.67)	0.790 (20.07)	0.364 (9.25)	0.710 (18.03)	0.310 (7.87)	1.645 (41.78)	1.260 (32.00)	0.690 (17.53)
D	1.940 (49.28)	1.525 (38.74)	1.125 (28.58)	0.865 (21.97)	0.364 (9.25)	0.710 (18.03)	0.310 (7.87)	1.745 (44.32)	1.360 (34.54)	0.790 (20.07)
E	2.090 (53.09)	1.675 (42.55)	1.275 (32.39)	1.015 (25.78)	0.364 (9.25)	0.710 (18.03)	0.310 (7.87)	1.895 (48.13)	1.510 (38.35)	0.940 (23.88)
F	2.240 (56.90)	1.825 (46.36)	1.425 (36.20)	1.165 (29.59)	0.364 (9.25)	0.710 (18.03)	0.310 (7.87)	2.045 (51.94)	1.660 (42.16)	1.090 (27.69)
G	2.200 (55.88)	1.785 (45.34)	1.388 (35.26)	1.122 (28.50)	0.452 (11.48)	0.800 (20.32)	0.390 (9.91)	1.983 (50.37)	1.633 (41.48)	1.060 (26.92)
H	2.835 (72.01)	2.375 (60.33)	1.900 (48.26)	1.515 (38.48)	0.470 (11.94)	0.820 (20.83)	0.420 (10.67)	2.590 (65.79)	2.240 (56.90)	1.440 (36.58)
J	2.615 (66.42)	2.200 (55.88)	1.800 (45.72)	1.540 (39.12)	0.364 (9.25)	0.710 (18.03)	0.310 (7.87)	2.395 (60.83)	2.010 (51.05)	1.450 (36.83)
K	2.990 (75.95)	2.575 (65.41)	2.175 (55.25)	1.915 (48.64)	0.364 (9.25)	0.710 (18.03)	0.310 (7.87)	2.795 (70.99)	2.410 (61.21)	1.840 (46.74)
L	3.075 (78.11)	2.611 (66.32)	2.136 (54.25)	1.755 (44.58)	0.470 (11.94)	0.820 (20.83)	0.420 (10.67)	2.826 (71.78)	2.476 (62.89)	1.675 (42.55)
P	2.220 (56.39)	1.699 (43.15)	1.075 (27.31)	1.699 (43.15)	0.578 (14.68)	0.925 (23.50)	0.475 (12.07)	1.965 (49.91)	1.525 (38.74)	1.320 (33.53)
Q	2.595 (65.91)	2.074 (52.68)	1.450 (36.83)	2.074 (52.68)	0.578 (14.68)	0.925 (23.50)	0.475 (12.07)	2.340 (59.44)	1.900 (48.26)	1.695 (43.05)
R	2.970 (75.44)	2.449 (62.20)	1.825 (46.36)	2.449 (62.20)	0.578 (14.68)	0.925 (23.50)	0.475 (12.07)	2.715 (68.96)	2.275 (57.79)	2.070 (52.58)
S	3.345 (84.96)	2.824 (71.73)	2.200 (55.88)	2.824 (71.73)	0.578 (14.68)	0.925 (23.50)	0.475 (12.07)	3.090 (78.49)	2.650 (67.31)	2.445 (62.10)
T	3.720 (94.49)	3.199 (81.25)	2.575 (65.41)	3.199 (81.25)	0.578 (14.68)	0.925 (23.50)	0.475 (12.07)	3.465 (88.01)	3.025 (76.84)	2.820 (71.63)
U	3.720 (94.49)	3.199 (81.25)	2.575 (65.41)	3.199 (81.25)	0.960 (24.38)	1.300 (33.02)	0.850 (21.59)	3.465 (88.01)	3.025 (76.84)	2.820 (71.63)

VERSALINK CONTACTS SOLD SEPARATELY	
Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY		
#22HD Pin	Wire size #22–#28	**850-094-1**
#22HD Pin	Wire size #26–#30	**850-094-2**

COMPATIBLE SPEEDLINE CABLE	
Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

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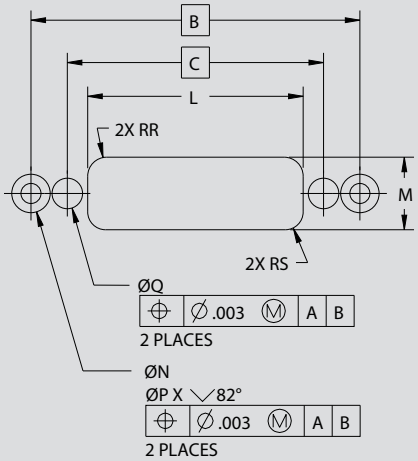
794-004 Rear Panel Mount, Pin Contact Receptacle

794-004 PANEL CUT-OUT DIMENSIONS



PANEL CUT-OUT DIMENSIONS									
SHELL SIZE	B BSC	C BSC	L ±.002 (±.051)	M ±.002 (±.051)	N ±.003 (±.076)	ØP	ØQ ±.003 (±.076)	RR ±.002 (±.051)	RS ±.002 (±.051)
A	1.150 (29.21)	0.750 (19.05)	0.505 (12.83)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
B	1.300 (33.02)	0.900 (22.86)	0.655 (16.64)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
C	1.450 (36.83)	1.050 (26.67)	0.805 (20.45)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
D	1.525 (38.74)	1.125 (28.58)	0.880 (22.35)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
E	1.675 (42.55)	1.275 (32.39)	1.030 (26.16)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
F	1.825 (46.36)	1.425 (36.20)	1.180 (29.97)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
G	1.786 (45.36)	1.388 (35.26)	1.142 (29.01)	0.506 (12.85)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
H	2.375 (60.33)	1.900 (48.26)	1.531 (38.89)	0.521 (13.23)	0.144 (3.66)	0.239 (6.07)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
J	2.200 (55.88)	1.800 (45.72)	1.555 (39.50)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
K	2.575 (65.41)	2.175 (55.25)	1.930 (49.02)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
L	2.611 (66.32)	2.136 (54.25)	1.767 (44.88)	0.521 (13.23)	0.144 (3.66)	0.239 (6.07)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
P	1.699 (43.15)	1.075 (27.31)	0.725 (18.42)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
Q	2.074 (52.68)	1.450 (36.83)	1.100 (27.94)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
R	2.449 (62.20)	1.825 (46.36)	1.475 (37.47)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
S	2.840 (72.14)	2.200 (55.88)	1.850 (46.99)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
T	3.199 (81.25)	2.575 (65.41)	2.225 (56.52)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
U	3.199 (81.25)	2.575 (65.41)	2.225 (56.52)	0.998 (25.35)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)

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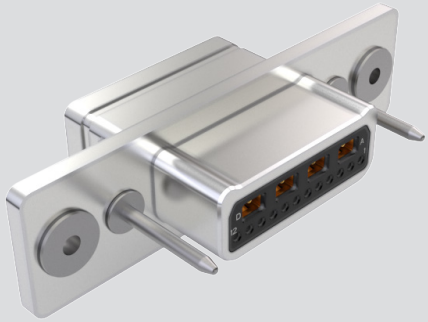
794-005 VersaLink Float Mount, Socket Contact Plug



PART NUMBER DEVELOPMENT

Sample Part Number	794-005	B	G-4V12	M	N	C	-A
Series	**794-005** = Float Mount Plug						
Contacts	**B** = Socket, Less Contacts						
Shell Size-Insert Arrangement	See Insert Arrangement Table						
Shell Finish	**M** = Electroless Nickel **MT** = Nickel Teflon						
Hardware Option	**N** = No Hardware **G** = Guide Pin						
Backshell Geometry	**C** = Clam Shell **S** = Single Piece (Screw Mount)						
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)						

MATERIALS AND FINISHES

- 853-046 VersaLink Module
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- 850-095 #22HD Contact
  - » Contacts: copper alloy 50 microinches gold over nickel
  - » Socket contact hood: stainless steel passivated
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Grommet: fluorosilicone blend elastomer
- Retention clips: beryllium copper / nickel
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to +200°C

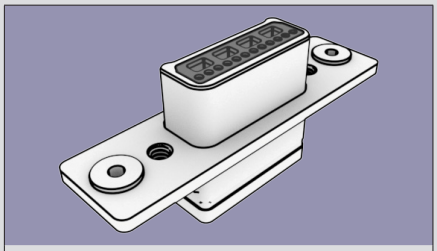
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for polarizing key options on page 51.
3. Refer to Series 794 material & finish options on page 52.
4. "J" dimension N/A when "S" backshell geometry is selected.
5. Glenair strongly recommends using 799-225 on page 81 or equivalent backshell.
6. Contacts are ordered separately. VersaLink contacts may be ordered pre-terminated via 8574-001, or contact the factory for complete cable assemblies.

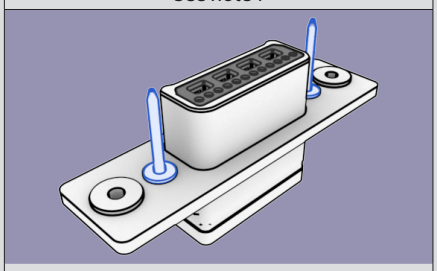
INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

HARDWARE



N
No Hardware
See note 1



G
Guide Pin
See note 2

1. Thread size is #6-32 for shell sizes A,B,C,D,E,F,G,J,K
   Thread size is #8-32 for shell sizes H & L
   Thread size is #10-32 for shell sizes P,Q,R,S,T,U
2. Connector supplied with non-removable guide pin

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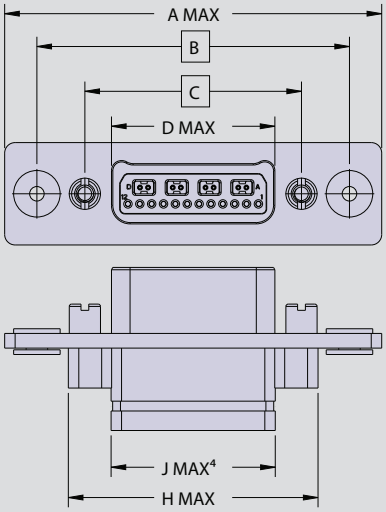
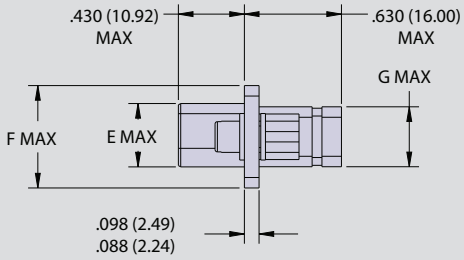
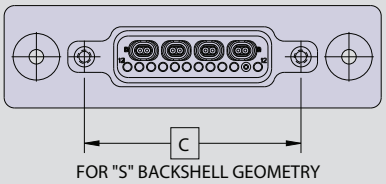
794-005 VersaLink Float Mount, Socket Contact Plug

794-005 VERSALINK FLOAT MOUNT SOCKET CABLE PLUG CONNECTOR







SIZES A THRU L FOR THE FLOAT ACCOMODATE UP TO .040 (1.02) OF FLOAT IN ALL DIRECTIONS

SIZES P THRU U FOR THE FLOAT ACCOMODATE UP TO .050 (1.27) OF FLOAT IN ALL DIRECTIONS

DIMENSIONS

SHELL SIZE	A MAX	B BSC	C BSC	D MAX	E MAX	F MAX	G MAX	H MAX	J MAX[4]
A	1.785 (45.34)	1.365 (34.67)	0.750 (19.05)	0.415 (10.54)	0.320 (8.13)	0.568 (14.43)	0.310 (7.87)	0.965 (24.51)	0.760 (19.30)
B	1.935 (49.15)	1.515 (38.48)	0.900 (22.86)	0.565 (14.35)	0.320 (8.13)	0.568 (14.43)	0.310 (7.87)	1.115 (28.32)	0.910 (23.11)
C	2.085 (52.96)	1.665 (42.29)	1.050 (26.67)	0.715 (18.16)	0.320 (8.13)	0.568 (14.43)	0.310 (7.87)	1.265 (32.13)	1.060 (26.92)
D	2.160 (54.86)	1.740 (44.20)	1.125 (28.58)	0.790 (20.07)	0.320 (8.13)	0.568 (14.43)	0.310 (7.87)	1.340 (34.04)	1.160 (29.46)
E	2.310 (58.67)	1.890 (48.01)	1.275 (32.39)	0.940 (23.88)	0.320 (8.13)	0.568 (14.43)	0.310 (7.87)	1.490 (37.85)	1.310 (33.27)
F	2.460 (62.48)	2.040 (51.82)	1.425 (36.20)	1.090 (27.69)	0.320 (8.13)	0.568 (14.43)	0.310 (7.87)	1.640 (41.66)	1.460 (37.08)
G	2.421 (61.49)	2.003 (50.88)	1.388 (35.26)	1.057 (26.85)	0.416 (10.57)	0.656 (16.66)	0.390 (9.91)	1.615 (41.02)	1.410 (35.81)
H	3.010 (76.45)	2.560 (65.02)	1.900 (48.26)	1.442 (36.63)	0.430 (10.92)	0.674 (17.12)	0.420 (10.67)	2.130 (54.10)	2.045 (51.94)
J	2.835 (72.01)	2.415 (61.34)	1.800 (45.72)	1.465 (37.21)	0.320 (8.13)	0.568 (14.43)	0.310 (7.87)	2.015 (51.18)	1.810 (45.97)
K	3.210 (81.53)	2.790 (70.87)	2.175 (55.25)	1.840 (46.74)	0.320 (8.13)	0.568 (14.43)	0.310 (7.87)	2.390 (60.71)	2.210 (56.13)
L	3.246 (82.45)	2.796 (71.02)	2.136 (54.25)	1.678 (42.62)	0.430 (10.92)	0.674 (17.12)	0.420 (10.67)	2.366 (60.10)	2.281 (57.94)
P	2.317 (58.85)	1.815 (46.10)	1.075 (27.31)	0.615 (15.62)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	1.320 (33.53)	0.610 (15.49)
Q	2.692 (68.38)	2.190 (55.63)	1.450 (36.83)	0.990 (25.15)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	1.695 (43.05)	0.985 (25.02)
R	3.067 (77.90)	2.565 (65.15)	1.825 (46.36)	1.365 (34.67)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	2.070 (52.58)	1.360 (34.54)
S	3.442 (87.43)	2.940 (74.68)	2.200 (55.88)	1.740 (44.20)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	2.445 (62.10)	1.735 (44.07)
T	3.817 (96.95)	3.315 (84.20)	2.575 (65.41)	2.115 (53.72)	0.513 (13.03)	0.925 (23.50)	0.475 (12.07)	2.820 (71.63)	2.100 (53.34)
U	3.817 (96.95)	3.315 (84.20)	2.575 (65.41)	2.115 (53.72)	0.888 (22.56)	1.300 (33.02)	0.850 (21.59)	2.820 (71.63)	2.100 (53.34)

VERSALINK CONTACTS SOLD SEPARATELY

Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

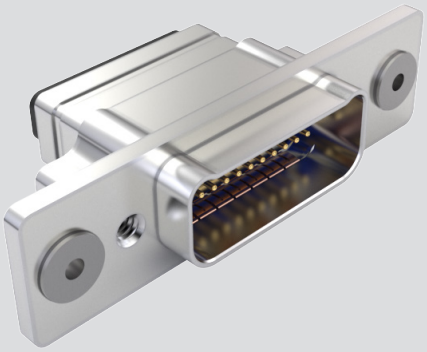
SIGNAL AND POWER CONTACTS SOLD SEPARATELY

#22HD Socket	Wire size #22–#28	850-095-1
#22HD Socket	Wire size #26–#30	850-095-2

COMPATIBLE SPEEDLINE CABLE

Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

794-006 VersaLink Float Mount, Pin Contact Receptacle



PART NUMBER DEVELOPMENT

Sample Part Number	794-006	A	G-4V12	M	N	C	-A
Series	**794-006** = Float Mount Receptacle						
Contacts	**A** = Pin, Less Contacts						
Shell Size-Insert Arrangement	See Insert Arrangement Table 799-184						
Shell Finish	**M** = Electroless Nickel **MT** = Nickel Teflon						
Hardware Option	**N** = No Hardware **B** = Guide Bushing						
Backshell Geometry	**C** = Clam Shell **S** = Single Piece (Screw Mount)						
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)						

MATERIALS AND FINISHES

- 853-045 VersaLink Module
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- 850-094 #22HD Contact
  - » Contacts: copper alloy 50 microinches gold over nickel
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Grommet: fluorosilicone blend elastomer
- EMI spring: beryllium copper nickel
- Retention clips: beryllium copper / nickel
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to 200°C

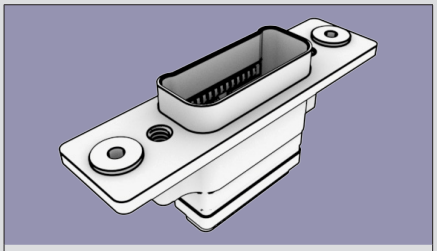
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for polarizing key options on page 51.
3. Refer to Series 794 material & finish for unshielded wire layouts on page 52.
4. "J" dimension N/A when "S" backshell geometry is selected.
5. Glenair strongly recommends using 799-225 on page 81 or equivalent backshell.
6. Contacts are ordered separately. VersaLink contacts may be ordered pre-terminated via 8574-0001, or contact the factory for complete cable assemblies.

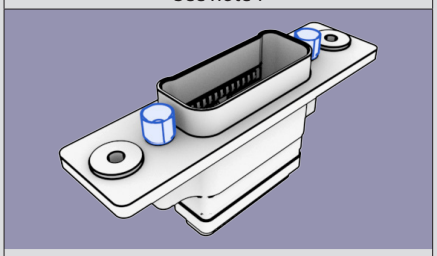
INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

HARDWARE



N
No Hardware
See note 1



B
Guide Bushing
See note 2

1. Thread size is #6-32 for shell sizes A, B, C,D, E, F, G, J, K
   Thread size is #8-32 for shell sizes H & L
   Thread size is #10-32 for shell sizes P, Q, R, S, T, U
2. Connector supplied with non-removable guide bushing

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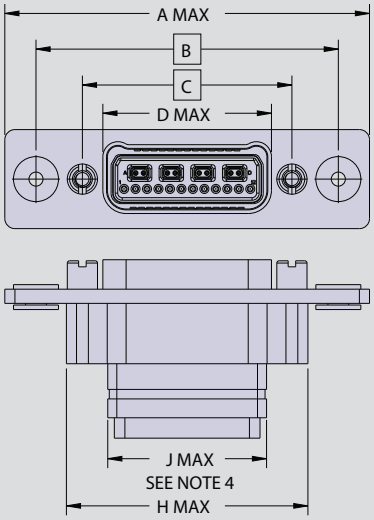
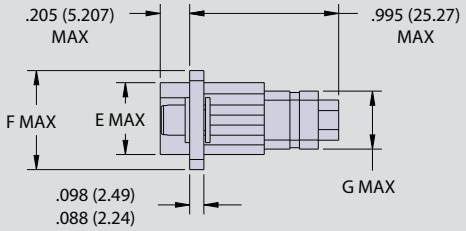
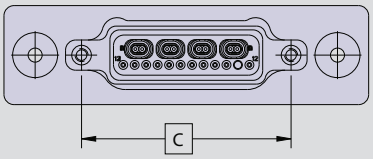
794-006 VersaLink Float Mount, Pin Contact Receptacle

794-006 VERSALINK FLOAT MOUNT, PIN RECEPTACLE CONNECTOR







FOR "S" BACKSHELL GEOMETRY
SEE NOTE 4

SIZES A THRU L FOR THE FLOAT ACCOMODATE UP TO .040 (1.02) BETWEEN THE CONNECTOR AND THE HARDWARE

SIZES P THRU U FOR THE FLOAT ACCOMODATE UP TO .050 (1.27) BETWEEN THE CONNECTOR AND THE HARDWARE

DIMENSIONS

SIZE	A MAX	B BSC	C BSC	D MAX	E MAX	F MAX	G MAX	H MAX	J MAX[4]
A	1.785 (45.34)	1.365 (34.67)	0.750 (19.05)	0.490 (12.45)	0.400 (10.16)	0.568 (14.43)	0.310 (7.87)	0.965 (24.51)	0.390 (9.91)
B	1.935 (49.15)	1.515 (38.48)	0.900 (22.86)	0.640 (16.26)	0.400 (10.16)	0.568 (14.43)	0.310 (7.87)	1.115 (28.32)	0.540 (13.72)
C	2.085 (52.96)	1.665 (42.29)	1.050 (26.67)	0.790 (20.07)	0.400 (10.16)	0.568 (14.43)	0.310 (7.87)	1.265 (32.13)	0.690 (17.53)
D	2.160 (54.86)	1.740 (44.20)	1.125 (28.58)	0.865 (21.97)	0.400 (10.16)	0.568 (14.43)	0.310 (7.87)	1.340 (34.04)	0.790 (20.07)
E	2.310 (58.67)	1.890 (48.01)	1.275 (32.39)	1.015 (25.78)	0.400 (10.16)	0.568 (14.43)	0.310 (7.87)	1.490 (37.85)	0.940 (23.88)
F	2.460 (62.48)	2.040 (51.82)	1.425 (36.20)	1.165 (29.59)	0.400 (10.16)	0.568 (14.43)	0.310 (7.87)	1.640 (41.66)	1.090 (27.69)
G	2.421 (61.49)	2.003 (50.88)	1.388 (35.26)	1.122 (28.50)	0.490 (12.45)	0.656 (16.66)	0.390 (9.91)	1.615 (41.02)	1.060 (26.92)
H	3.010 (76.45)	2.560 (65.02)	1.900 (48.26)	1.516 (38.51)	0.510 (12.95)	0.674 (17.12)	0.420 (10.67)	2.130 (54.10)	1.440 (36.58)
J	2.835 (72.01)	2.415 (61.34)	1.800 (45.72)	1.540 (39.12)	0.400 (10.16)	0.568 (14.43)	0.310 (7.87)	2.015 (51.18)	1.450 (36.83)
K	3.210 (81.53)	2.790 (70.87)	2.175 (55.25)	1.915 (48.64)	0.400 (10.16)	0.568 (14.43)	0.310 (7.87)	2.390 (60.71)	1.840 (46.74)
L	3.246 (82.45)	2.796 (71.02)	2.136 (54.25)	1.752 (44.50)	0.510 (12.95)	0.674 (17.12)	0.420 (10.67)	2.366 (60.10)	1.675 (42.55)
P	2.317 (58.85)	1.815 (46.10)	1.075 (27.31)	0.690 (17.53)	0.578 (14.68)	0.754 (19.15)	0.475 (12.07)	1.320 (33.53)	0.610 (15.49)
Q	2.692 (68.38)	2.190 (55.63)	1.450 (36.83)	1.065 (27.05)	0.578 (14.68)	0.754 (19.15)	0.475 (12.07)	1.695 (43.05)	0.985 (25.02)
R	3.067 (77.90)	2.565 (65.15)	1.825 (46.36)	1.440 (36.58)	0.578 (14.68)	0.754 (19.15)	0.475 (12.07)	2.070 (52.58)	1.360 (34.54)
S	3.442 (87.43)	2.940 (74.68)	2.200 (55.88)	1.815 (46.10)	0.578 (14.68)	0.754 (19.15)	0.475 (12.07)	2.445 (62.10)	1.735 (44.07)
T	3.817 (96.95)	3.315 (84.20)	2.575 (65.41)	2.190 (55.63)	0.578 (14.68)	0.754 (19.15)	0.475 (12.07)	2.820 (71.63)	2.100 (53.34)
U	3.817 (96.95)	3.315 (84.20)	2.575 (65.41)	2.190 (55.63)	0.960 (24.38)	1.129 (28.68)	0.850 (21.59)	2.820 (71.63)	2.100 (53.34)

VERSALINK CONTACTS SOLD SEPARATELY

Pin	**853-045**
Socket	**853-046**
Pin Pigtail	**8574-0001-AN**
Socket Pigtail	**8574-0001-BN**
Pin-Pin Cable	**8574-0001-AA**
Pin-Socket Cable	**8574-0001-AB**
Socket-Socket Cable	**8574-0001-BB**

SIGNAL AND POWER CONTACTS SOLD SEPARATELY

#22HD Pin	Wire size #22–#28	**850-094-1**
#22HD Pin	Wire size #26–#30	**850-094-2**

COMPATIBLE SPEEDLINE CABLE

Twisted Pair	**963-068-26**
Flat Pair	**963-069-26**

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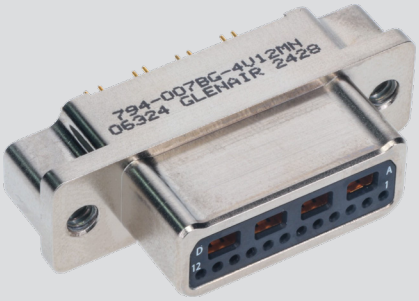
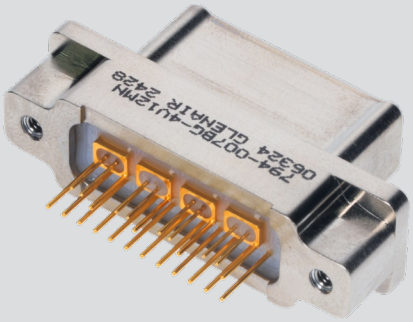
794-007 VersaLink Straight PCB Mount, Socket Contact Plug





PART NUMBER DEVELOPMENT

Sample Part Number	794-007	S	G-4V12	M	N	-A
Series	**794-007** = Straight PCB Mount Plug					
Contacts	**S** = Socket Contacts					
Shell Size-Insert Arrangement	See Insert Arrangement Table 799-184					
Shell Finish	**M** = Electroless Nickel **MT** = Nickel Teflon					
Hardware Option	**P** = Jackpost **G** = Guide Pin **R1** thru **R6** = Jackpost, Panel Mount **N** = No Hardware					
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)					

MATERIALS AND FINISHES

- VersaLink Module
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- #22HD Contact
  - » Contacts: copper alloy 50 microinches gold over nickel
  - » Socket contact hood: stainless steel passivated
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to +200°C

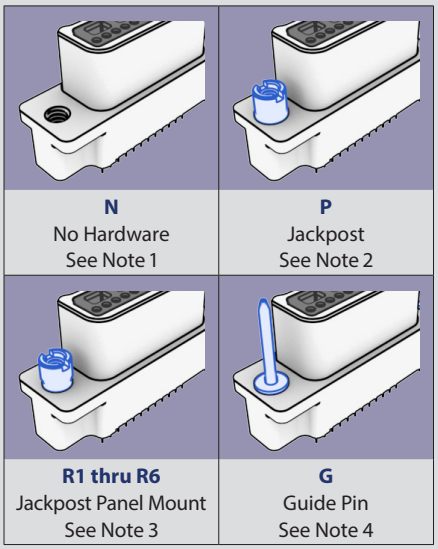
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for polarizing key options on page 51.
3. Refer to Series 794 material & finish for unshielded wire layouts on page 52.
4. Refer to Series 794 PCB Footprints for unshielded wire layouts on page 82.

INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

HARDWARE



1. Thread size is #6-32 for shell sizes A,B,C,D,E,F,G,J,K
   Thread size is #8-32 for shell sizes H & L
   Thread size Is #8-32 for shell sizes P,Q,R,S,T,U
2. Thread size is #2-56 for shell sizes A, B, C, D, E, F, G, J, K
   Thread size is #4-40 for shell sizes H & L
   Thread size is #8-32 for shell sizes P, 1, R, S, T, U
3. R1 - .032 (.081) Panel
   R2 - .050 (1.27) Panel
   R3 - .062 (1.59) Panel
   R4 - .080 (2.03) Panel
   R5 - .093 (2.36) Panel
   R6 - .125 (3.18) Panel
   Thread sizes same as "P" jackpost option
4. Connector supplied with non-removable guide pin

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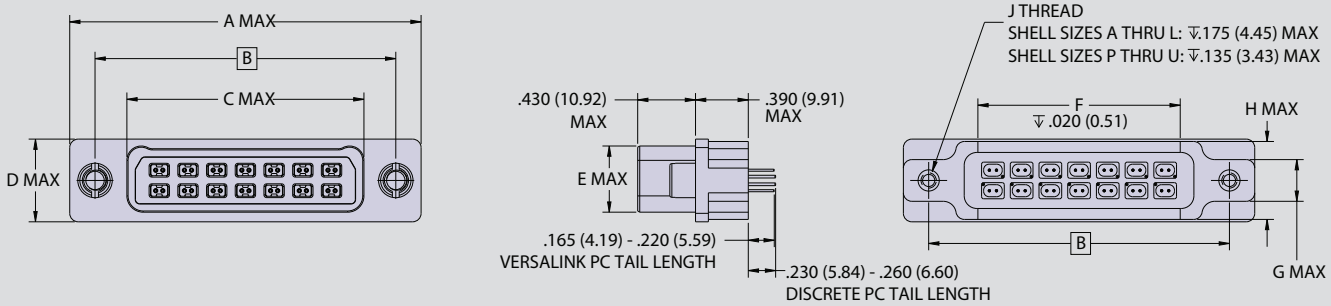
794-007 VersaLink Straight PCB Mount, Socket Contact Plug

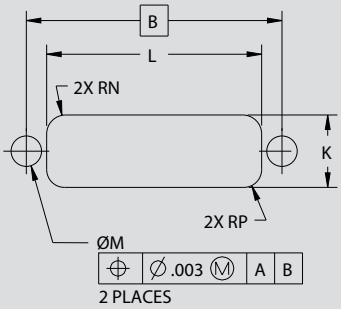
794-007 VERSALINK STRAIGHT PCB MOUNT, SOCKET PLUG CONNECTOR



DIMENSIONS

SHELL SIZE	A MAX	B BSC	C MAX	D MAX	E MAX	F	G MAX	H MAX	J THREAD UNC 2B
A	1.035 (26.29)	0.750 (19.05)	0.410 (10.41)	0.415 (10.54)	0.320 (8.13)	0.200 (5.08)	0.210 (5.33)	0.415 (10.54)	#2-56
B	1.185 (30.10)	0.900 (22.86)	0.560 (14.22)	0.415 (10.54)	0.320 (8.13)	0.400 (10.16)	0.210 (5.33)	0.415 (10.54)	#2-56
C	1.335 (33.91)	1.050 (26.67)	0.710 (18.03)	0.415 (10.54)	0.320 (8.13)	0.460 (11.68)	0.210 (5.33)	0.415 (10.54)	#2-56
D	1.410 (35.81)	1.125 (28.58)	0.785 (19.94)	0.415 (10.54)	0.320 (8.13)	0.565 (14.35)	0.210 (5.33)	0.415 (10.54)	#2-56
E	1.560 (39.62)	1.275 (32.39)	0.935 (23.75)	0.415 (10.54)	0.320 (8.13)	0.775 (19.69)	0.210 (5.33)	0.415 (10.54)	#2-56
F	1.710 (43.43)	1.425 (36.20)	1.085 (27.56)	0.415 (10.54)	0.320 (8.13)	0.845 (21.46)	0.210 (5.33)	0.415 (10.54)	#2-56
G	1.673 (42.49)	1.388 (35.26)	1.047 (26.59)	0.500 (12.70)	0.420 (10.67)	0.900 (22.86)	0.300 (7.62)	0.500 (12.70)	#2-56
H	2.275 (57.79)	1.900 (48.26)	1.437 (36.50)	0.520 (13.21)	0.430 (10.92)	1.200 (30.48)	0.315 (8.00)	0.520 (13.21)	#4-40
J	2.085 (52.96)	1.800 (45.72)	1.460 (37.08)	0.415 (10.54)	0.320 (8.13)	1.230 (31.24)	0.210 (5.33)	0.415 (10.54)	#2-56
K	2.460 (62.48)	2.175 (55.25)	1.835 (46.61)	0.415 (10.54)	0.320 (8.13)	1.650 (41.91)	0.210 (5.33)	0.415 (10.54)	#2-56
L	2.511 (63.78)	2.136 (54.25)	1.673 (42.49)	0.520 (13.21)	0.430 (10.92)	1.550 (39.37)	0.315 (8.00)	0.520 (13.21)	#4-40
P	1.455 (36.96)	1.075 (27.31)	0.615 (15.62)	0.630 (16.00)	0.513 (13.03)	0.450 (11.43)	0.315 (8.00)	0.570 (14.48)	#4-40
Q	1.830 (46.48)	1.450 (36.83)	0.990 (25.15)	0.630 (16.00)	0.513 (13.03)	0.850 (21.59)	0.315 (8.00)	0.570 (14.48)	#4-40
R	2.205 (56.01)	1.825 (46.36)	1.365 (34.67)	0.630 (16.00)	0.513 (13.03)	1.200 (30.48)	0.315 (8.00)	0.570 (14.48)	#4-40
S	2.580 (65.53)	2.200 (55.88)	1.740 (44.20)	0.630 (16.00)	0.513 (13.03)	1.480 (37.59)	0.315 (8.00)	0.570 (14.48)	#4-40
T	2.955 (75.06)	2.575 (65.41)	2.115 (53.72)	0.630 (16.00)	0.513 (13.03)	1.855 (47.12)	0.315 (8.00)	0.570 (14.48)	#4-40
U	2.955 (75.06)	2.575 (65.41)	2.115 (53.72)	0.990 (25.15)	0.888 (22.56)	1.950 (49.53)	0.315 (8.00)	0.980 (24.89)	#4-40

794-007 PANEL CUT-OUT DIMENSIONS



SHELL SIZE	B BSC	K ±.002 (.051)	J ±.002 (.051)	ØM ±.003 (.076)	RN ±.002 (.051)	RP ±.002 (.051)
A	0.750 (19.05)	0.418 (10.62)	0.505 (12.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
B	0.900 (22.86)	0.418 (10.62)	0.655 (16.64)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
C	1.050 (26.67)	0.418 (10.62)	0.805 (20.45)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
D	1.125 (28.58)	0.418 (10.62)	0.880 (22.35)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
E	1.275 (32.39)	0.418 (10.62)	1.030 (26.16)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
F	1.425 (36.20)	0.418 (10.62)	1.180 (29.97)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
G	1.388 (35.26)	0.506 (12.85)	1.142 (29.01)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
H	1.900 (48.26)	0.521 (13.23)	1.531 (38.89)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
J	1.800 (45.72)	0.418 (10.62)	1.555 (39.50)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
K	2.175 (55.25)	0.418 (10.62)	1.930 (49.02)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
L	2.136 (54.25)	0.521 (13.23)	1.767 (44.88)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
P	1.075 (27.31)	0.623 (15.82)	0.725 (18.42)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
Q	1.450 (36.83)	0.623 (15.82)	1.100 (27.94)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
R	1.825 (46.36)	0.623 (15.82)	1.475 (37.47)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
S	2.200 (55.88)	0.623 (15.82)	1.850 (46.99)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
T	2.575 (65.41)	0.623 (15.82)	2.225 (56.52)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
U	2.575 (65.41)	0.998 (25.35)	2.225 (56.52)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)

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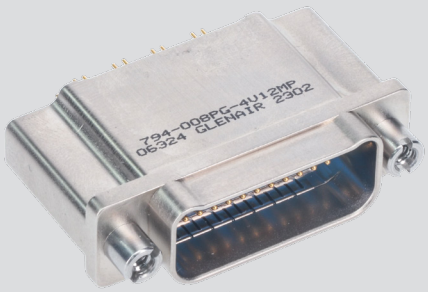
794-008 VersaLink Straight PCB Mount, Pin Contact Receptacle



PART NUMBER DEVELOPMENT

Sample Part Number	794-008	P	G-4V12	M	N	-A
Series	**794-008** = Straight PCB Mount Receptacle					
Contacts	**P** = Pin Contacts					
Shell Size-Insert Arrangement	See Insert Arrangement Table 799-184					
Shell Finish	**M** = Electroless Nickel **MT** = Nickel Teflon					
Hardware Option	**P** = Jackpost **R1** thru **R6** = Jackpost, Panel Mount **B** = Guide Bushing **N** = No Hardware					
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)					

MATERIALS AND FINISHES

- VersaLink Module
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- #22HD Contact
  - » Contacts: copper alloy 50 microinches gold over nickel
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Grommet: fluorosilicone blend elastomer
- EMI spring: beryllium copper nickel
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to +200°C

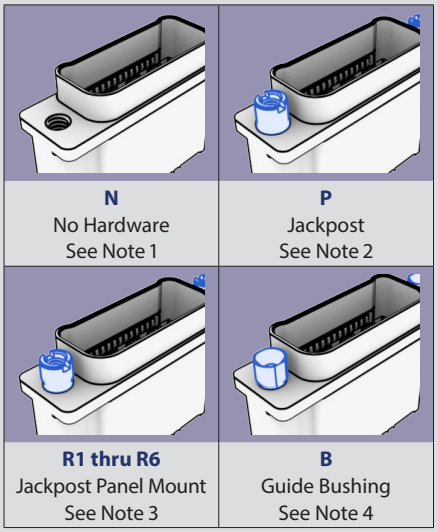
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for polarizing key options on page 51.
3. Refer to Series 794 material & finish for unshielded wire layouts on page 52.
4. Refer to Series 794 PCB Footprints for unshielded wire layouts on page 82.

INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

HARDWARE



N No Hardware See Note 1	**P** Jackpost See Note 2
R1 thru R6 Jackpost Panel Mount See Note 3	**B** Guide Bushing See Note 4

1. Thread size is #6-32 for shell sizes A, B, C, D, E, F, G, J, K
   Thread size is #8-32 for shell sizes H & L
   Thread size is #10-32 for shell sizes P, Q, R, S, T, U
2. Thread Size Is #2-56 For Shell Sizes A, B, C, D, E, F, G, J, K
   Thread size is #4-40 for shell sizes H & L
   Thread size Is #8-32 for shell sizes P, Q, R, S, T, U
3. R1 - .032 (.081) Panel
   R2 - .050 (1.27) Panel
   R3 - .062 (1.59) Panel
   R4 - .080 (2.03) Panel
   R5 - .093 (2.36) Panel
   R6 - .125 (3.18) Panel
   Thread sizes same as "P" jackpost option
4. Connector supplied with non-removable guide bushing

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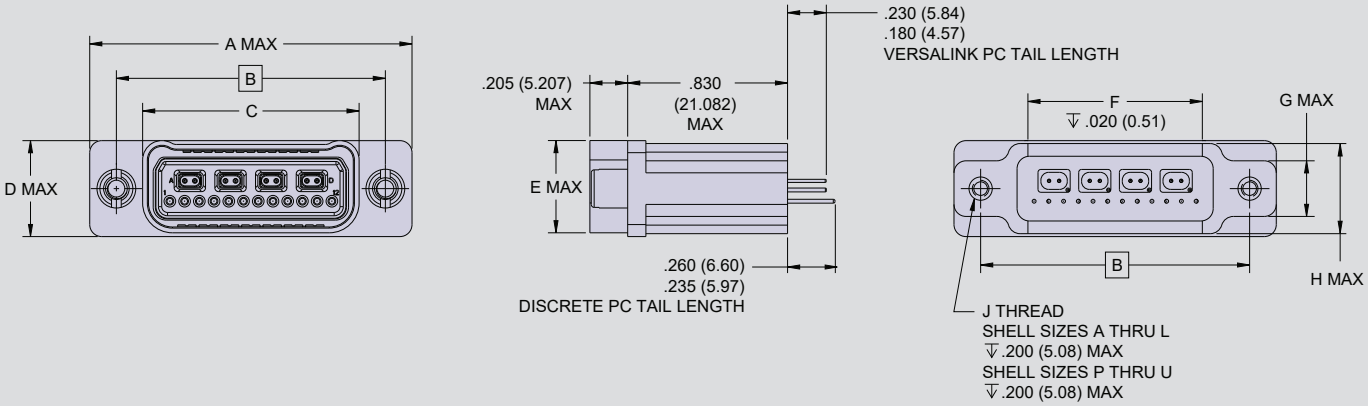
794-008 VersaLink Straight PCB Mount, Pin Contact Receptacle

794-008 VERSALINK STRAIGHT PCB MOUNT, PIN RECEPTACLE CONNECTOR



DIMENSIONS									
SHELL SIZE	A MAX	B BSC	C MAX	D MAX	E MAX	F	G MAX	H MAX	J THREAD UNC 2B
A	1.035 (26.29)	0.750 (19.05)	0.490 (12.45)	0.415 (10.54)	0.400 (10.16)	0.200 (5.08)	0.210 (5.33)	0.415 (10.54)	#2-56
B	1.185 (30.10)	0.900 (22.86)	0.640 (16.26)	0.415 (10.54)	0.400 (10.16)	0.400 (10.16)	0.210 (5.33)	0.415 (10.54)	#2-56
C	1.335 (33.91)	1.050 (26.67)	0.790 (20.07)	0.415 (10.54)	0.400 (10.16)	0.460 (11.68)	0.210 (5.33)	0.415 (10.54)	#2-56
D	1.410 (35.81)	1.125 (28.58)	0.865 (21.97)	0.415 (10.54)	0.400 (10.16)	0.565 (14.35)	0.210 (5.33)	0.415 (10.54)	#2-56
E	1.560 (39.62)	1.275 (32.39)	1.015 (25.78)	0.415 (10.54)	0.400 (10.16)	0.775 (19.69)	0.210 (5.33)	0.415 (10.54)	#2-56
F	1.710 (43.43)	1.425 (36.20)	1.165 (29.59)	0.415 (10.54)	0.400 (10.16)	0.845 (21.46)	0.210 (5.33)	0.415 (10.54)	#2-56
G	1.673 (42.49)	1.388 (35.26)	1.127 (28.63)	0.510 (12.95)	0.490 (12.45)	0.900 (22.86)	0.300 (7.62)	0.500 (12.70)	#2-56
H	2.275 (57.79)	1.900 (48.26)	1.516 (38.51)	0.520 (13.21)	0.510 (12.95)	1.200 (30.48)	0.315 (8.00)	0.520 (13.21)	#4-40
J	2.085 (52.96)	1.800 (45.72)	1.540 (39.12)	0.415 (10.54)	0.400 (10.16)	1.230 (31.24)	0.210 (5.33)	0.415 (10.54)	#2-56
K	2.460 (62.48)	2.175 (55.25)	1.915 (48.64)	0.415 (10.54)	0.400 (10.16)	1.650 (41.91)	0.210 (5.33)	0.415 (10.54)	#2-56
L	2.511 (63.78)	2.136 (54.25)	1.752 (44.50)	0.520 (13.21)	0.510 (12.95)	1.550 (39.37)	0.315 (8.00)	0.520 (13.21)	#4-40
P	2.220 (56.39)	1.075 (27.31)	0.615 (15.62)	0.630 (16.00)	0.578 (14.68)	0.450 (11.43)	0.315 (8.00)	0.570 (14.48)	#4-40
Q	2.595 (65.91)	1.450 (36.83)	0.990 (25.15)	0.630 (16.00)	0.578 (14.68)	0.850 (21.59)	0.315 (8.00)	0.570 (14.48)	#4-40
R	2.970 (75.44)	1.825 (46.36)	1.365 (34.67)	0.630 (16.00)	0.578 (14.68)	1.200 (30.48)	0.315 (8.00)	0.570 (14.48)	#4-40
S	3.345 (84.96)	2.200 (55.88)	1.740 (44.20)	0.630 (16.00)	0.578 (14.68)	1.480 (37.59)	0.315 (8.00)	0.570 (14.48)	#4-40
T	3.720 (94.49)	2.575 (65.41)	2.115 (53.72)	0.630 (16.00)	0.578 (14.68)	1.855 (47.12)	0.315 (8.00)	0.570 (14.48)	#4-40
U	3.720 (94.49)	2.575 (65.41)	2.115 (53.72)	0.990 (25.15)	0.960 (24.38)	1.950 (49.53)	0.315 (8.00)	0.980 (24.89)	#4-40

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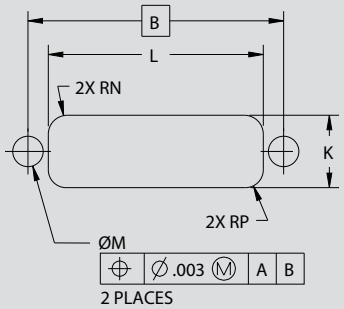
794-008 VersaLink Straight PCB Mount, Pin Contact Receptacle

794-008 PANEL CUT-OUT DIMENSIONS



PANEL CUT-OUT DIMENSIONS						
SHELL SIZE	B BSC	J ±002 (.051)	K ±.002 (.051)	ØM ±.003 (.076)	RN ±.002 (.051)	RP ±.002 (.051)
A	0.750 (19.05)	0.505 (12.83)	0.418 (10.62)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
B	0.900 (22.86)	0.655 (16.64)	0.418 (10.62)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
C	1.050 (26.67)	0.805 (20.45)	0.418 (10.62)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
D	1.125 (28.58)	0.880 (22.35)	0.418 (10.62)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
E	1.275 (32.39)	1.030 (26.16)	0.418 (10.62)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
F	1.425 (36.20)	1.180 (29.97)	0.418 (10.62)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
G	1.388 (35.26)	1.142 (29.01)	0.506 (12.85)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
H	1.900 (48.26)	1.531 (38.89)	0.521 (13.23)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
J	1.800 (45.72)	1.555 (39.50)	0.418 (10.62)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
K	2.175 (55.25)	1.930 (49.02)	0.418 (10.62)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
L	2.136 (54.25)	1.767 (44.88)	0.521 (13.23)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
P	1.075 (27.31)	0.725 (18.42)	0.623 (15.82)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
Q	1.450 (36.83)	1.100 (27.94)	0.623 (15.82)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
R	1.825 (46.36)	1.475 (37.47)	0.623 (15.82)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
S	2.200 (55.88)	1.850 (46.99)	0.623 (15.82)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
T	2.575 (65.41)	2.225 (56.52)	0.623 (15.82)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
U	2.575 (65.41)	2.225 (56.52)	0.998 (25.35)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)

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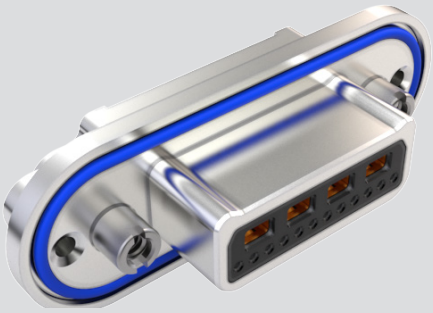
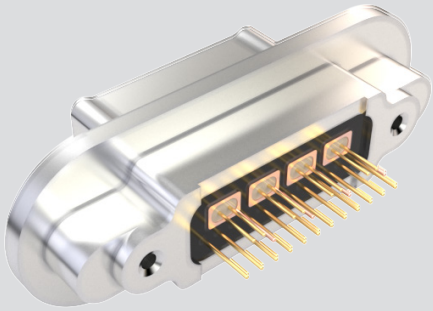
794-009 VersaLink Straight PCB Rear-Panel Mount, Socket Contact Plug





PART NUMBER DEVELOPMENT

Sample Part Number	794-009	S	G-4V12	M	P	F	-A
Series	**794-009** = Straight PCB Rear-Panel Mount Plug						
Contacts		**S** = Socket Contacts					
Shell Size-Insert Arrangement			See Insert Arrangement Table 799-184				
Shell Finish				**M** = Electroless Nickel **MT** = Nickel Teflon			
Hardware Option					**P** = Jackpost **G** = Guide Pin **N** = No Hardware		
O-Ring Option						**C** = Conductive **F** = Fluorosilicone **S** = Metal EMI Spring **N** = None	
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)						

MATERIALS AND FINISHES

- VersaLink Module
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- #22HD Contact
  - » Contacts: copper alloy 50 microinches gold over nickel
  - » Socket contact hood: stainless steel passivated
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to +200°C

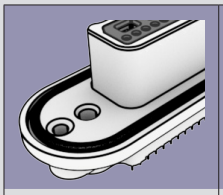
NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for unshielded wire layouts on page 51.
3. Refer to Series 794 material & finish options on page 52.
4. Refer to Series 794 PCB Footprints for unshielded wire layouts on page 82.

INSERT ARRANGEMENTS

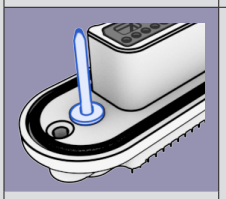
Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

HARDWARE



N
No Hardware
See Note 1

P
Jackpost
See Note 2



G
Guide Pin
See Note 3

1. Thread size is #6-32 for shell sizes A,B,C,D,E,F,G,J,K
   Thread size is #8-32 for shell sizes H & L
   Thread size Is #10-32 for shell sizes P,Q,R,S,T,U
2. Thread size is #2-56 for shell sizes A, B, C, D, E, F, G, J, K
   Thread size is #4-40 for shell sizes H & L
   Thread size is #8-32 for shell sizes P, Q, R, S, T, U
3. Connector supplied with non-removable guide pin

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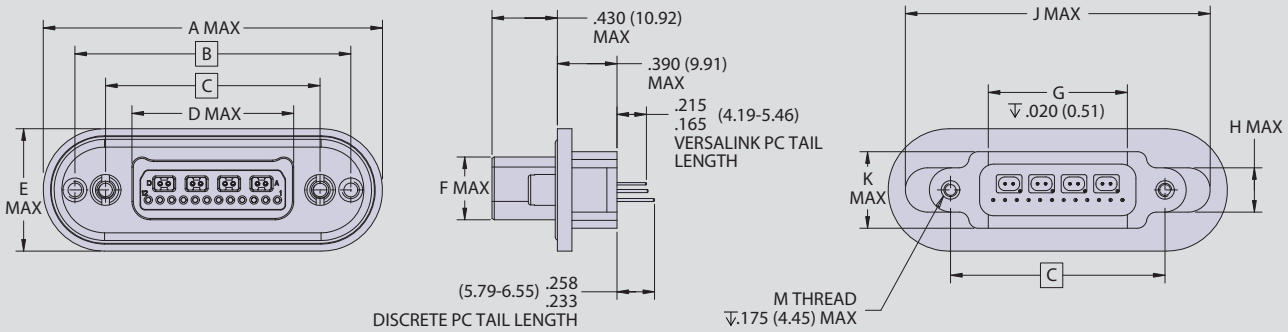
794-009 VersaLink Straight PCB Rear-Panel Mount, Socket Contact Plug

794-009 VERSALINK STRAIGHT PCB REAR-PANEL MOUNT, SOCKET PLUG CONNECTOR



DIMENSIONS

SHELL SIZE	A MAX	B	C	D MAX	E MAX	F MAX	G	H MAX	J MAX	K MAX	M THREAD UNC 2B
A	1.565 (39.75)	1.150 (29.21)	0.750 (19.05)	0.410 (10.41)	0.710 (18.03)	0.320 (8.13)	0.200 (5.08)	0.210 (5.33)	1.345 (34.16)	0.415 (10.54)	#2-56
B	1.715 (43.56)	1.300 (33.02)	0.900 (22.86)	0.560 (14.22)	0.710 (18.03)	0.320 (8.13)	0.400 (10.16)	0.210 (5.33)	1.495 (37.97)	0.415 (10.54)	#2-56
C	1.865 (47.37)	1.450 (36.83)	1.050 (26.67)	0.710 (18.03)	0.710 (18.03)	0.320 (8.13)	0.460 (11.68)	0.210 (5.33)	1.645 (41.78)	0.415 (10.54)	#2-56
D	1.940 (49.28)	1.525 (38.73)	1.125 (28.58)	0.785 (19.94)	0.710 (18.03)	0.320 (8.13)	0.565 (14.35)	0.210 (5.33)	1.745 (44.32)	0.415 (10.54)	#2-56
E	2.090 (53.09)	1.675 (42.55)	1.275 (32.39)	0.935 (23.75)	0.710 (18.03)	0.320 (8.13)	0.775 (19.68)	0.210 (5.33)	1.895 (48.13)	0.415 (10.54)	#2-56
F	2.240 (56.90)	1.825 (46.36)	1.425 (36.20)	1.085 (27.56)	0.710 (18.03)	0.320 (8.13)	0.845 (21.46)	0.210 (5.33)	2.045 (51.94)	0.415 (10.54)	#2-56
G	2.200 (55.88)	1.785 (45.34)	1.388 (35.26)	1.047 (26.59)	0.800 (20.32)	0.420 (10.67)	0.900 (22.86)	0.300 (7.62)	1.983 (50.37)	0.500 (12.70)	#2-56
H	2.835 (72.01)	2.375 (60.33)	1.900 (48.26)	1.437 (36.50)	0.820 (20.83)	0.430 (10.92)	1.200 (30.48)	0.315 (8.00)	2.590 (65.79)	0.520 (13.21)	#4-40
J	2.615 (66.42)	2.200 (55.88)	1.800 (45.72)	1.460 (37.08)	0.710 (18.03)	0.320 (8.13)	1.230 (31.24)	0.210 (5.33)	2.395 (60.83)	0.415 (10.54)	#2-56
K	2.990 (75.95)	2.575 (65.41)	2.175 (55.24)	1.835 (46.61)	0.710 (18.03)	0.320 (8.13)	1.650 (41.91)	0.210 (5.33)	2.795 (70.99)	0.415 (10.54)	#2-56
L	3.075 (78.11)	2.611 (66.32)	2.136 (54.25)	1.673 (42.49)	0.820 (20.83)	0.430 (10.92)	1.550 (39.37)	0.315 (8.00)	2.826 (71.78)	0.520 (13.21)	#4-40
P	1.460 (37.08)	1.699 (43.15)	1.075 (27.30)	0.620 (15.75)	0.925 (23.50)	0.518 (13.16)	0.450 (11.43)	0.320 (8.13)	1.970 (50.04)	0.575 (14.60)	#4-40
Q	1.835 (46.61)	2.074 (52.68)	1.450 (36.83)	0.995 (25.27)	0.925 (23.50)	0.518 (13.16)	0.850 (21.59)	0.320 (8.13)	2.345 (59.56)	0.575 (14.60)	#4-40
R	2.210 (56.13)	2.449 (62.20)	1.825 (46.36)	1.370 (34.80)	0.925 (23.50)	0.518 (13.16)	1.200 (30.48)	0.320 (8.13)	2.720 (69.09)	0.575 (14.60)	#4-40
S	2.585 (65.66)	2.824 (71.73)	2.200 (55.88)	1.745 (44.32)	0.925 (23.50)	0.518 (13.16)	1.480 (37.59)	0.320 (8.13)	3.095 (78.61)	0.575 (14.60)	#4-40
T	2.960 (75.18)	3.199 (81.25)	2.575 (65.41)	2.120 (53.85)	0.925 (23.50)	0.518 (13.16)	1.855 (47.12)	0.320 (8.13)	3.470 (88.14)	0.575 (14.60)	#4-40
U	2.960 (75.18)	3.199 (81.25)	2.575 (65.41)	2.120 (53.85)	1.300 (33.02)	0.893 (22.68)	1.950 (49.53)	0.320 (8.13)	3.470 (88.14)	0.985 (25.02)	#4-40

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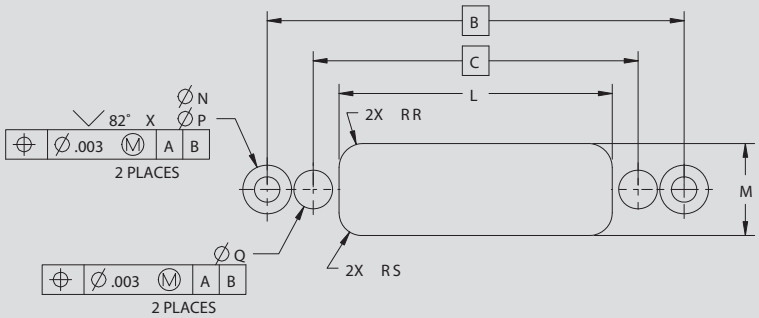
794-009 VersaLink Straight PCB Rear-Panel Mount, Socket Contact Plug

794-009 PANEL CUT-OUT DIMENSIONS



PANEL CUT-OUT DIMENSIONS									
SHELL SIZE	B	C	L ±0.002	M ±0.002	N ±0.003	ØP	ØQ 0.003	RR ±0.002	RS ±0.002
A	1.150 (29.21)	0.750 (19.05)	0.505 (12.83)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
B	1.300 (33.02)	0.900 (22.86)	0.655 (16.64)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
C	1.450 (36.83)	1.050 (26.67)	0.805 (20.45)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
D	1.525 (38.73)	1.125 (28.58)	0.880 (22.35)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
E	1.675 (42.55)	1.275 (32.39)	1.030 (26.16)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
F	1.825 (46.36)	1.425 (36.20)	1.180 (29.97)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
G	1.786 (45.36)	1.388 (35.26)	1.142 (29.01)	0.506 (12.85)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
H	2.375 (60.33)	1.900 (48.26)	1.531 (38.89)	0.521 (13.23)	0.144 (3.66)	0.239 (6.07)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
J	2.200 (55.88)	1.800 (45.72)	1.555 (39.50)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
K	2.575 (65.41)	2.175 (55.24)	1.930 (49.02)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
L	2.611 (66.32)	2.136 (54.25)	1.767 (44.88)	0.521 (13.23)	0.144 (3.66)	0.239 (6.07)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
P	1.699 (43.15)	1.075 (27.30)	0.725 (18.42)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
Q	2.074 (52.68)	1.450 (36.83)	1.100 (27.94)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
R	2.449 (62.20)	1.825 (46.36)	1.475 (37.47)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
S	2.840 (72.14)	2.200 (55.88)	1.850 (46.99)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
T	3.199 (81.25)	2.575 (65.41)	2.225 (56.52)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
U	3.199 (81.25)	2.575 (65.41)	2.225 (56.52)	0.998 (25.35)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)

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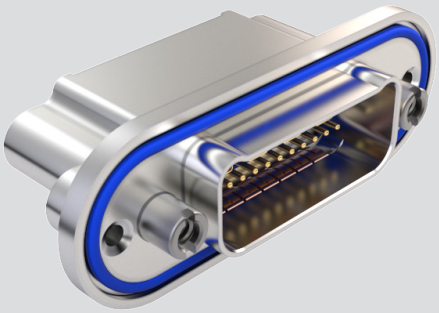
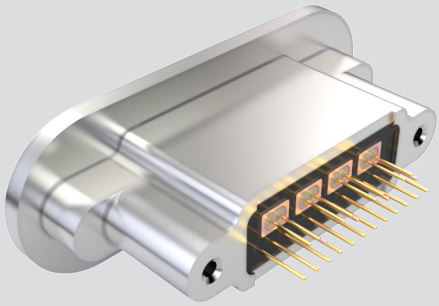
794-010 VersaLink Straight PCB Rear-Panel Mount, Pin Contact Receptacle





PART NUMBER DEVELOPMENT

Sample Part Number	794-010	P	G-4V12	M	P	F	-A
Series	**794-010** = Straight PCB Rear-Panel Mount Receptacle						
Contacts	**P** = Pin Contacts						
Shell Size-Insert Arrangement	See Insert Arrangement Table 799-184						
Shell Finish	**M** = Electroless Nickel **MT** = Nickel Teflon						
Hardware Option	**P** = Jackpost **G** = Guide Pin **N** = No Hardware						
O-Ring Option	**C** = Conductive **F** = Fluorosilicone **S** = Metal EMI Spring **N** = None						
Optional Shell Keying	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, **M**; Omit for none (see mod code 1279)						

MATERIALS AND FINISHES

- VersaLink Module
  - » Contact: Copper Alloy/gold
  - » Insulator: rigid dielectric/N.A.
  - » Shield: copper alloy/gold
- #22HD Contact
  - » Contacts: copper alloy 50 microinches gold over nickel
- Shell: aluminum alloy 6061
- Insulators: high-grade rigid dielectric
- EMI spring: beryllium copper nickel
- Grommet: fluorosilicone blend elastomer
- Hardware: 300 series stainless steel passivated
- Potting compound: epoxy

PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to +200°C

NOTES

1. Refer to 799-184 for insert arrangements on page 50.
2. Refer to Modification Code 1279 for unshielded wire layouts on page 51.
3. Refer to Series 794 material & finish for unshielded wire layouts on page 52.
4. Refer to Series 794 PCB Footprints for unshielded wire layouts on page 82.

INSERT ARRANGEMENTS

Shell Size-Insert Arrangement	No. of Contacts	
	VersaLink	22HD
A-1V	1	0
B-2V	2	0
B-1V4	1	4
C-2V2	2	2
D-2V4	2	4
E-3V4	3	4
E-2V6	2	6
F-4V	4	0
G-4V12	4	12
H-6V16	6	16
J-6V	6	0
K-8V	8	0
L-7V20	7	20
P-4V	4	0
Q-8V8	8	0
R-10V	10	0
R-8V16	8	16
S-14V	14	0
T-18V	16	0
U-36V	36	0

HARDWARE

N
No Hardware
See Note 1

P
Jackpost
See Note 2

B
Guide Bushing
See Note 3

1. Thread size is #6-32 for shell sizes A,B,C,D,E,F,G,J,K
   Thread size is #8-32 for shell sizes H & L
   Thread size Is #10-32 for shell sizes P,Q,R,S,T,U
2. Thread size is #2-56 for shell sizes A, B, C, D, E, F, G, J, K
   Thread size is #4-40 for shell sizes H & L
   Thread size is #8-32 for shell sizes P, Q, R, S, T, U
3. Connector supplied with non-removable guide bushing

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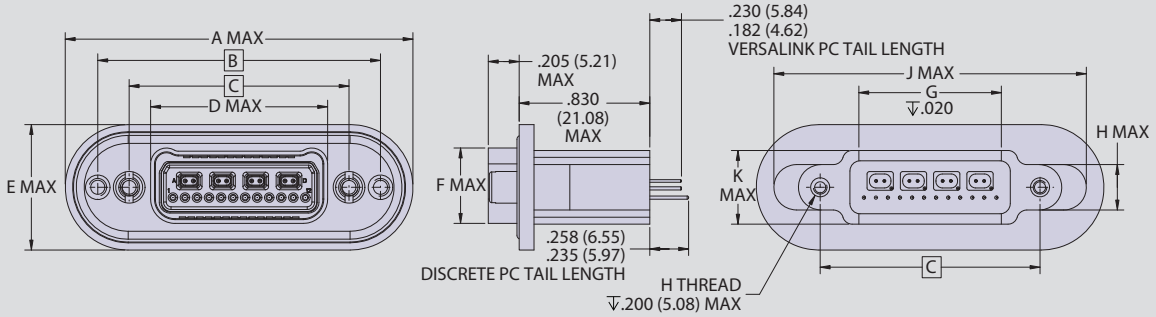
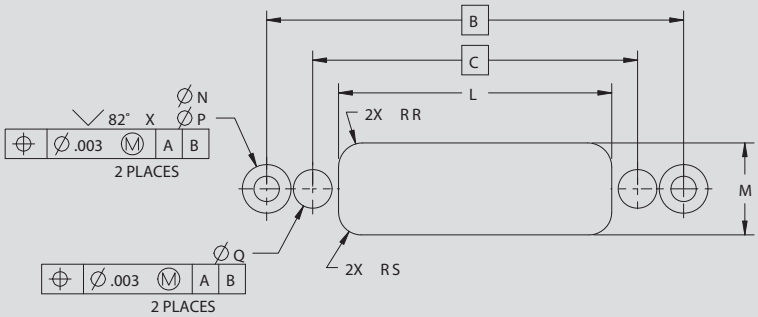
794-010 VersaLink Straight PCB Rear-Panel Mount, Pin Contact Receptacle



DIMENSIONS											
SHELL SIZE	A MAX	B	C	D MAX	E MAX	F MAX	G	H MAX	J MAX	K MAX	M THREAD UNC 2B
A	1.565 (39.75)	1.150 (29.21)	0.750 (19.05)	0.410 (10.41)	0.710 (18.03)	0.320 (8.13)	0.200 (5.08)	0.210 (5.33)	1.345 (34.16)	0.415 (10.54)	#2-56
B	1.715 (43.56)	1.300 (33.02)	0.900 (22.86)	0.560 (14.22)	0.710 (18.03)	0.320 (8.13)	0.400 (10.16)	0.210 (5.33)	1.495 (37.97)	0.415 (10.54)	#2-56
C	1.865 (47.37)	1.450 (36.83)	1.050 (26.67)	0.710 (18.03)	0.710 (18.03)	0.320 (8.13)	0.460 (11.68)	0.210 (5.33)	1.645 (41.78)	0.415 (10.54)	#2-56
D	1.940 (49.28)	1.525 (38.73)	1.125 (28.58)	0.785 (19.94)	0.710 (18.03)	0.320 (8.13)	0.565 (14.35)	0.210 (5.33)	1.745 (44.32)	0.415 (10.54)	#2-56
E	2.090 (53.09)	1.675 (42.55)	1.275 (32.39)	0.935 (23.75)	0.710 (18.03)	0.320 (8.13)	0.775 (19.68)	0.210 (5.33)	1.895 (48.13)	0.415 (10.54)	#2-56
F	2.240 (56.90)	1.825 (46.36)	1.425 (36.20)	1.085 (27.56)	0.710 (18.03)	0.320 (8.13)	0.845 (21.46)	0.210 (5.33)	2.045 (51.94)	0.415 (10.54)	#2-56
G	2.200 (55.88)	1.785 (45.34)	1.388 (35.26)	1.047 (26.59)	0.800 (20.32)	0.420 (10.67)	0.900 (22.86)	0.300 (7.62)	1.983 (50.37)	0.500 (12.70)	#2-56
H	2.835 (72.01)	2.375 (60.33)	1.900 (48.26)	1.437 (36.50)	0.820 (20.83)	0.430 (10.92)	1.200 (30.48)	0.315 (8.00)	2.590 (65.79)	0.520 (13.21)	#4-40
J	2.615 (66.42)	2.200 (55.88)	1.800 (45.72)	1.460 (37.08)	0.710 (18.03)	0.320 (8.13)	1.230 (31.24)	0.210 (5.33)	2.395 (60.83)	0.415 (10.54)	#2-56
K	2.990 (75.95)	2.575 (65.41)	2.175 (55.24)	1.835 (46.61)	0.710 (18.03)	0.320 (8.13)	1.650 (41.91)	0.210 (5.33)	2.795 (70.99)	0.415 (10.54)	#2-56
L	3.075 (78.11)	2.611 (66.32)	2.136 (54.25)	1.673 (42.49)	0.820 (20.83)	0.430 (10.92)	1.550 (39.37)	0.315 (8.00)	2.826 (71.78)	0.520 (13.21)	#4-40
P	1.460 (37.08)	1.699 (43.15)	1.075 (27.30)	0.620 (15.75)	0.925 (23.50)	0.518 (13.16)	0.450 (11.43)	0.320 (8.13)	1.970 (50.04)	0.575 (14.60)	#4-40
Q	1.835 (46.61)	2.074 (52.68)	1.450 (36.83)	0.995 (25.27)	0.925 (23.50)	0.518 (13.16)	0.850 (21.59)	0.320 (8.13)	2.345 (59.56)	0.575 (14.60)	#4-40
R	2.210 (56.13)	2.449 (62.20)	1.825 (46.36)	1.370 (34.80)	0.925 (23.50)	0.518 (13.16)	1.200 (30.48)	0.320 (8.13)	2.720 (69.09)	0.575 (14.60)	#4-40
S	2.585 (65.66)	2.824 (71.73)	2.200 (55.88)	1.745 (44.32)	0.925 (23.50)	0.518 (13.16)	1.480 (37.59)	0.320 (8.13)	3.095 (78.61)	0.575 (14.60)	#4-40
T	2.960 (75.18)	3.199 (81.25)	2.575 (65.41)	2.120 (53.85)	0.925 (23.50)	0.518 (13.16)	1.855 (47.12)	0.320 (8.13)	3.470 (88.14)	0.575 (14.60)	#4-40
U	2.960 (75.18)	3.199 (81.25)	2.575 (65.41)	2.120 (53.85)	1.300 (33.02)	0.893 (22.68)	1.950 (49.53)	0.320 (8.13)	3.470 (88.14)	0.985 (25.02)	#4-40

794-010 VersaLink Straight PCB Rear-Panel Mount, Pin Contact Receptacle



PANEL CUT-OUT DIMENSIONS

SHELL SIZE	B	C	L ±0.002	M ±0.002	N ±0.003	ØP	ØQ 0.003	RR ±0.002	RS ±0.002
A	1.150 (29.21)	0.750 (19.05)	0.505 (12.83)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
B	1.300 (33.02)	0.900 (22.86)	0.655 (16.64)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
C	1.450 (36.83)	1.050 (26.67)	0.805 (20.45)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
D	1.525 (38.73)	1.125 (28.58)	0.880 (22.35)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
E	1.675 (42.55)	1.275 (32.39)	1.030 (26.16)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
F	1.825 (46.36)	1.425 (36.20)	1.180 (29.97)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
G	1.786 (45.36)	1.388 (35.26)	1.142 (29.01)	0.506 (12.85)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
H	2.375 (60.33)	1.900 (48.26)	1.531 (38.89)	0.521 (13.23)	0.144 (3.66)	0.239 (6.07)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
J	2.200 (55.88)	1.800 (45.72)	1.555 (39.50)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
K	2.575 (65.41)	2.175 (55.24)	1.930 (49.02)	0.418 (10.62)	0.120 (3.05)	0.190 (4.83)	0.210 (5.33)	0.110 (2.79)	0.164 (4.17)
L	2.611 (66.32)	2.136 (54.25)	1.767 (44.88)	0.521 (13.23)	0.144 (3.66)	0.239 (6.07)	0.236 (5.99)	0.150 (3.81)	0.139 (3.53)
P	1.699 (43.15)	1.075 (27.30)	0.725 (18.42)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
Q	2.074 (52.68)	1.450 (36.83)	1.100 (27.94)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
R	2.449 (62.20)	1.825 (46.36)	1.475 (37.47)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
S	2.840 (72.14)	2.200 (55.88)	1.850 (46.99)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
T	3.199 (81.25)	2.575 (65.41)	2.225 (56.52)	0.623 (15.82)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)
U	3.199 (81.25)	2.575 (65.41)	2.225 (56.52)	0.998 (25.35)	0.172 (4.37)	0.330 (8.38)	0.262 (6.65)	0.163 (4.14)	0.153 (3.89)

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799-225 Clamshell Strain Relief for Series 794 Connectors

PART NUMBER DEVELOPMENT				
Sample Part Number	**799-225**	**M**	**R**	**F**
Series	**799-225** = Strain Relief Backshell for Series 794 VersaLink Connectors			
Finish	See Material Finish Table			
Shell Size	**A, B, C, D, E, F, G, H, J, K, L, P, Q, R, S, T, U**			
Saddle Bar Type	**F** = Flat **E** = Elliptical			

MATERIAL AND FINISH		
Sym	**Mat'l**	**Finish Description**
E	ALUM	Chem Film
J		Cadmium With Yellow Chromate
M		Electroless Nickel
MT		Nickel-Ptfe (1000 Hr Salt Spray, Rohs)
NF		Cad/O.D. Over Electroless Nickel (1000 Hr Salt Spray)
UCR		Zinc-Cobalt With Black Chromate (Rohs)
Z2		Gold
ZNU		Zinc-Nickel With Black Chromate
Z1	SST	Passivated
ZM		Electroless Nickel

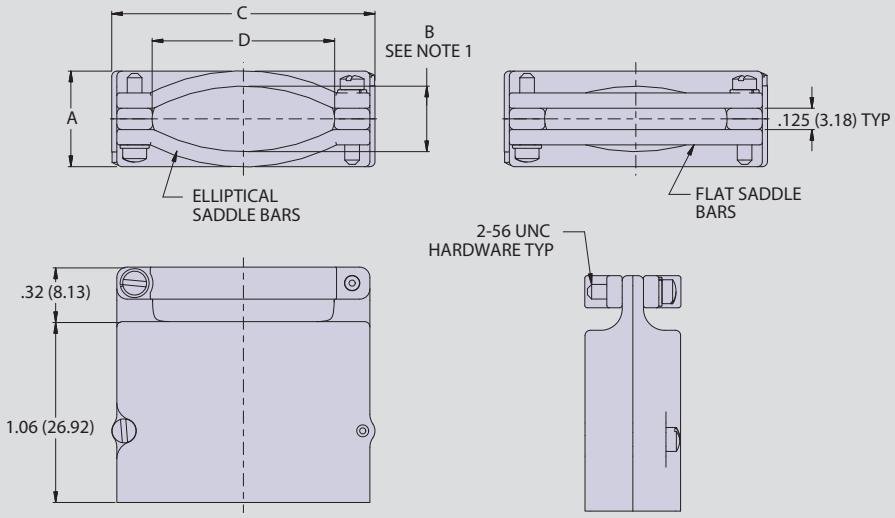
DIMENSIONS				
SHELL	**A MAX**	**B**	**C MAX**	**D**
A	0.385 (9.78)	0.188 (4.78)	0.485 (12.32)	0.188 (4.78)
B	0.385 (9.78)	0.250 (6.35)	0.635 (16.13)	0.250 (6.35)
C	0.385 (9.78)	0.218 (5.54)	0.785 (19.94)	0.359 (9.12)
D	0.385 (9.78)	0.218 (5.54)	0.885 (22.48)	0.459 (11.66)
E	0.385 (9.78)	0.218 (5.54)	1.035 (26.29)	0.609 (15.47)
F	0.385 (9.78)	0.218 (5.54)	1.185 (30.10)	0.759 (19.28)
G	0.475 (12.07)	0.306 (7.77)	1.145 (29.08)	0.726 (18.44)
H	0.495 (12.57)	0.324 (8.23)	1.525 (38.74)	1.099 (27.91)
J	0.385 (9.78)	0.218 (5.54)	1.545 (39.24)	1.111 (28.22)
K	0.385 (9.78)	0.218 (5.54)	1.945 (49.40)	1.511 (38.38)
L	0.495 (12.57)	0.324 (8.23)	1.765 (44.83)	1.335 (33.91)
P	0.555 (14.10)	0.384 (9.75)	0.765 (19.43)	0.279 (7.09)
Q	0.555 (14.10)	0.384 (9.75)	1.140 (28.96)	0.654 (16.61)
R	0.555 (14.10)	0.384 (9.75)	1.515 (38.48)	1.029 (26.14)
S	0.555 (14.10)	0.384 (9.75)	1.890 (48.01)	1.404 (35.66)
T	0.555 (14.10)	0.384 (9.75)	2.265 (57.53)	1.779 (45.19)
U	0.935 (23.75)	TBD	2.265 (57.53)	TBD

MATERIALS AND FINISHES

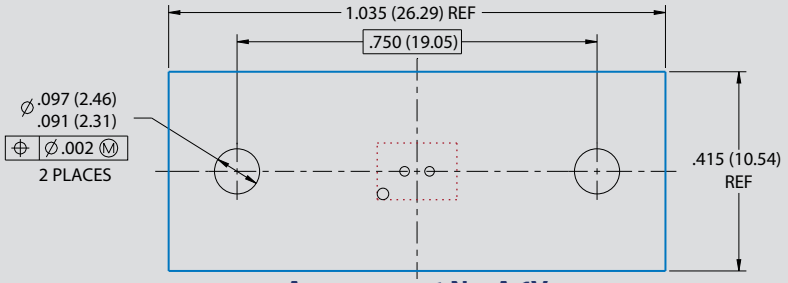
- Backshell, saddle bars: aluminum alloy, see material/finish table
- Hardware: CRES/passivated

NOTES

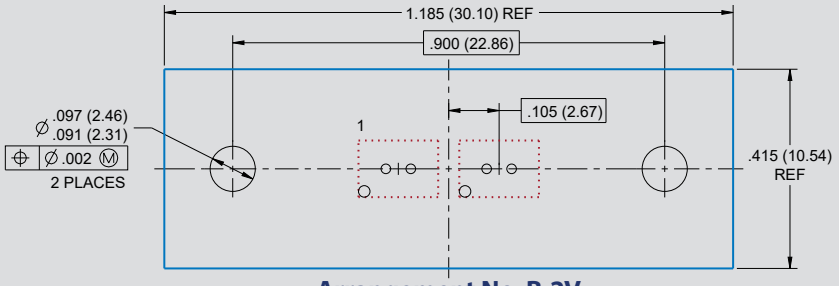
1. Measurement taken with saddle bars bottomed out on the ears. Applicable to elliptical saddle bars only.



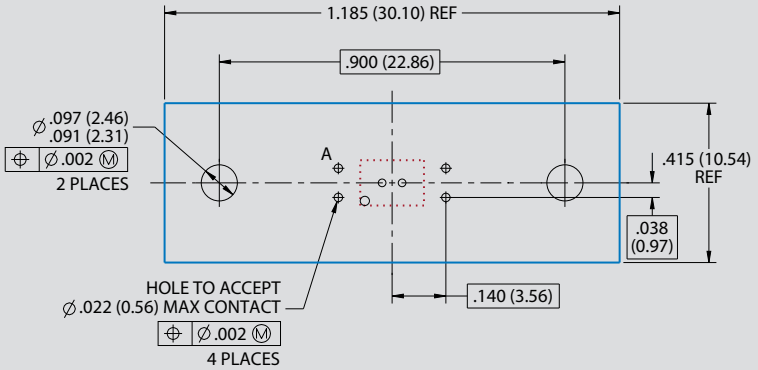
799-196: Series 794 PCB Layouts



Arrangement No. A-1V
1X VersaLink
See Note 1 and 2



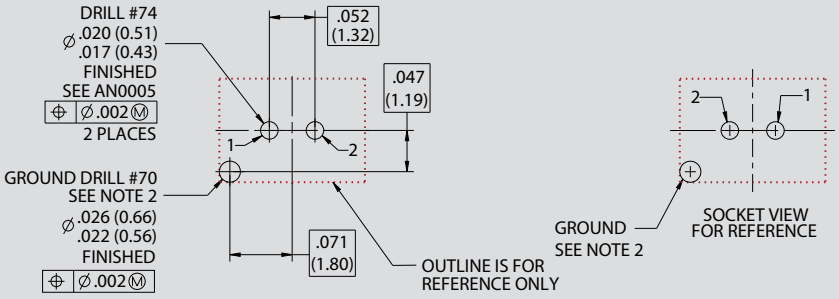
Arrangement No. B-2V
2X VersaLink
See Note 1 and 2



Arrangement No. B-1V4
2X VersaLink
4X 22HD

Approximate connector outline
Refer to VersaLink pair layout detail

VERSALINK PAIR LAYOUT



NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

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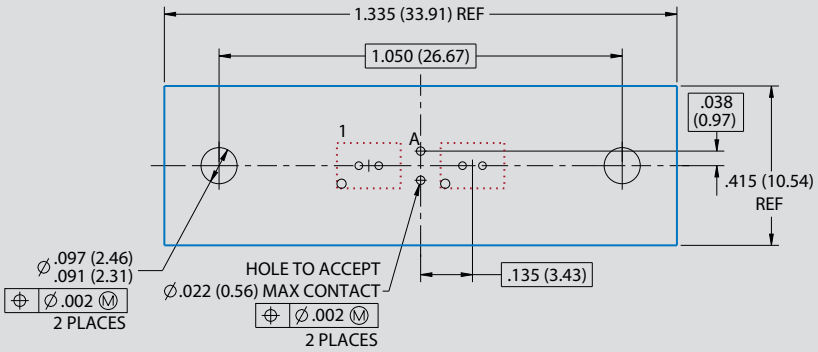
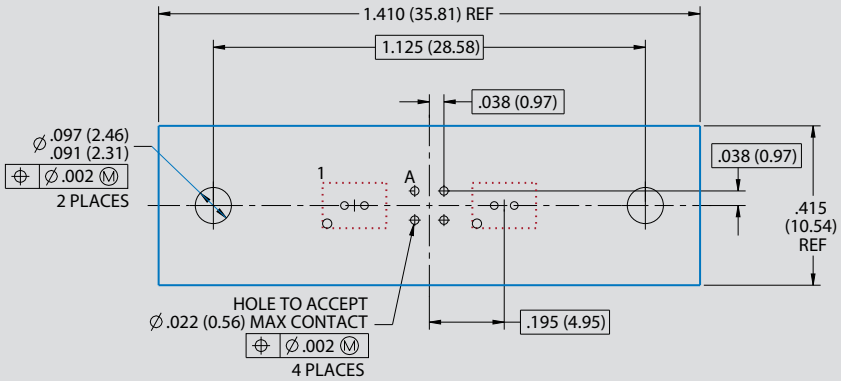
799-196: Series 794 PCB Layouts



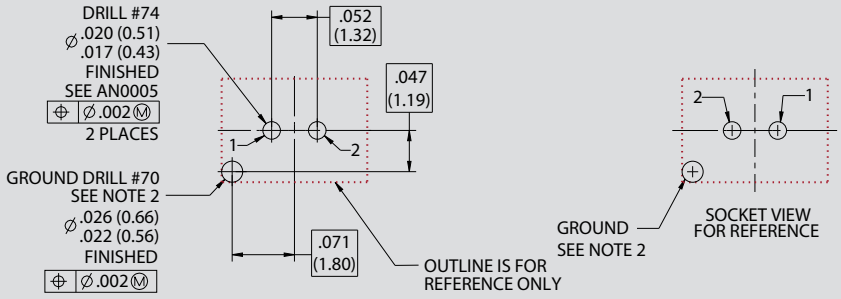
Arrangement No. C-2V2
2X VersaLink
2X 22HD



Arrangement No. D-2V4
2X VersaLink
4X 22HD
See Note 1 and 2

Approximate connector outline
Refer to VersaLink pair layout detail

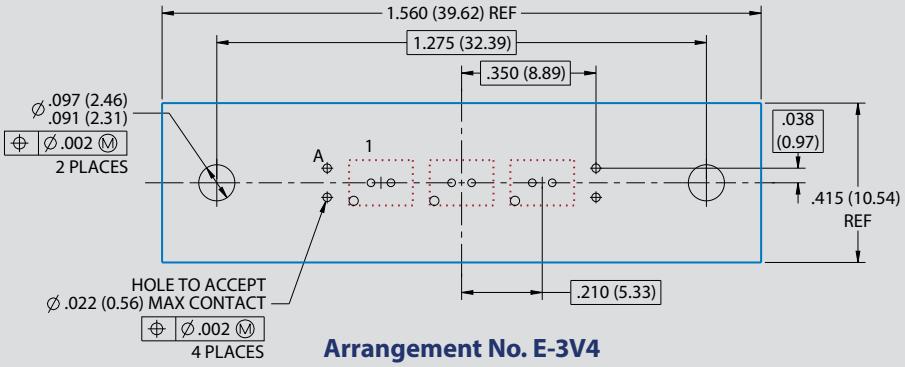
VERSALINK PAIR LAYOUT



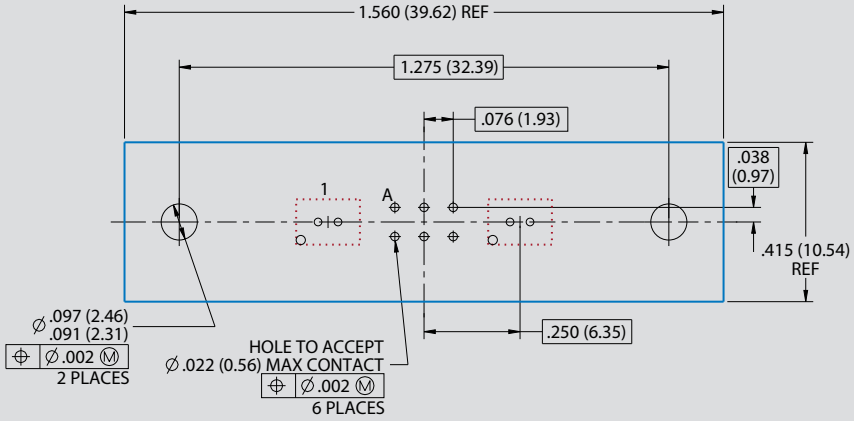
NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

799-196: Series 794 PCB Layouts



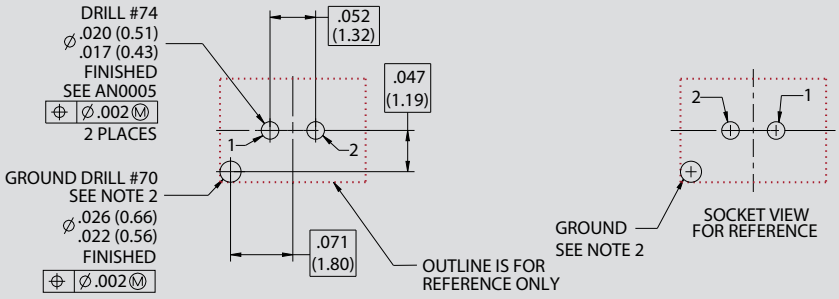
Arrangement No. E-3V4
3X VersaLink
4X 22HD
See Note 1 and 2



Arrangement No. E-2V6
2X VersaLink
6X 22HD
See Note 1 and 2

Approximate connector outline
Refer to VersaLink pair layout detail

VERSALINK PAIR LAYOUT



NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

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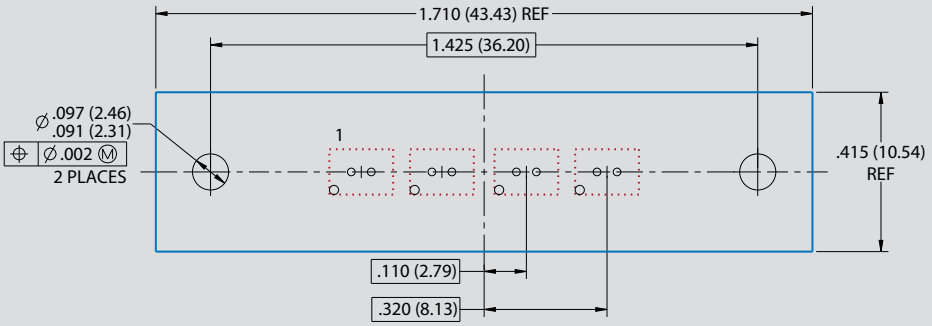
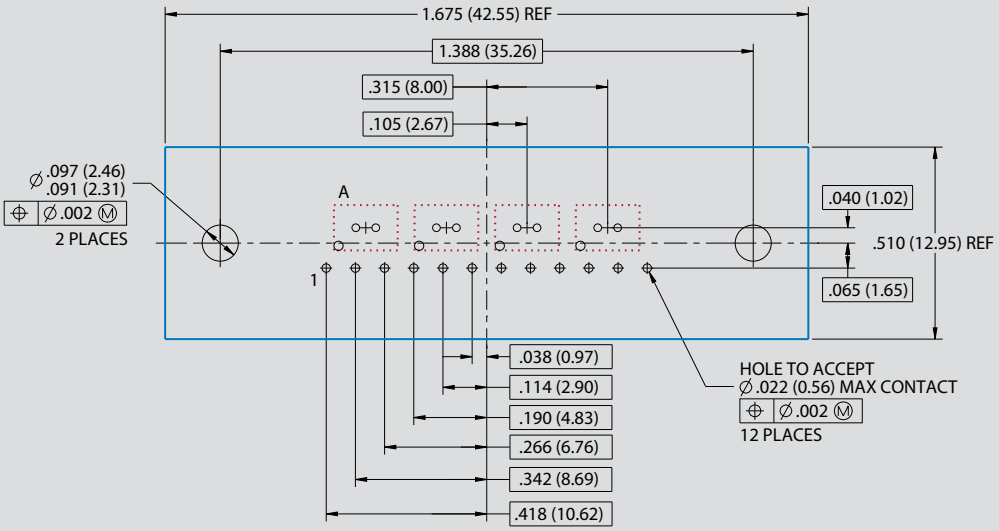
799-196: Series 794 PCB Layouts



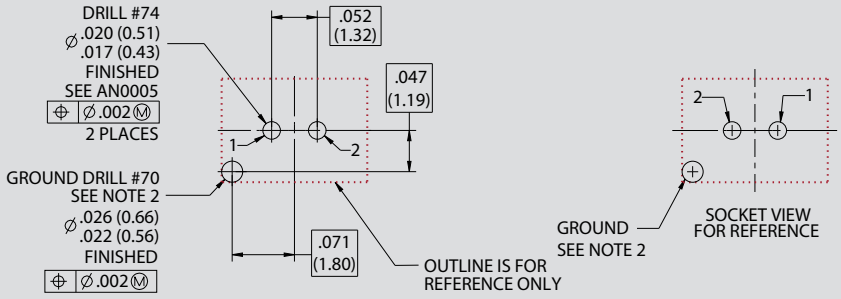
Arrangement No. F-4V
4X VersaLink
See Note 1 and 2



Arrangement No. G-4V12
4X VersaLink
12X 22HD
See Note 1 and 2

Approximate connector outline
Refer to VersaLink pair layout detail

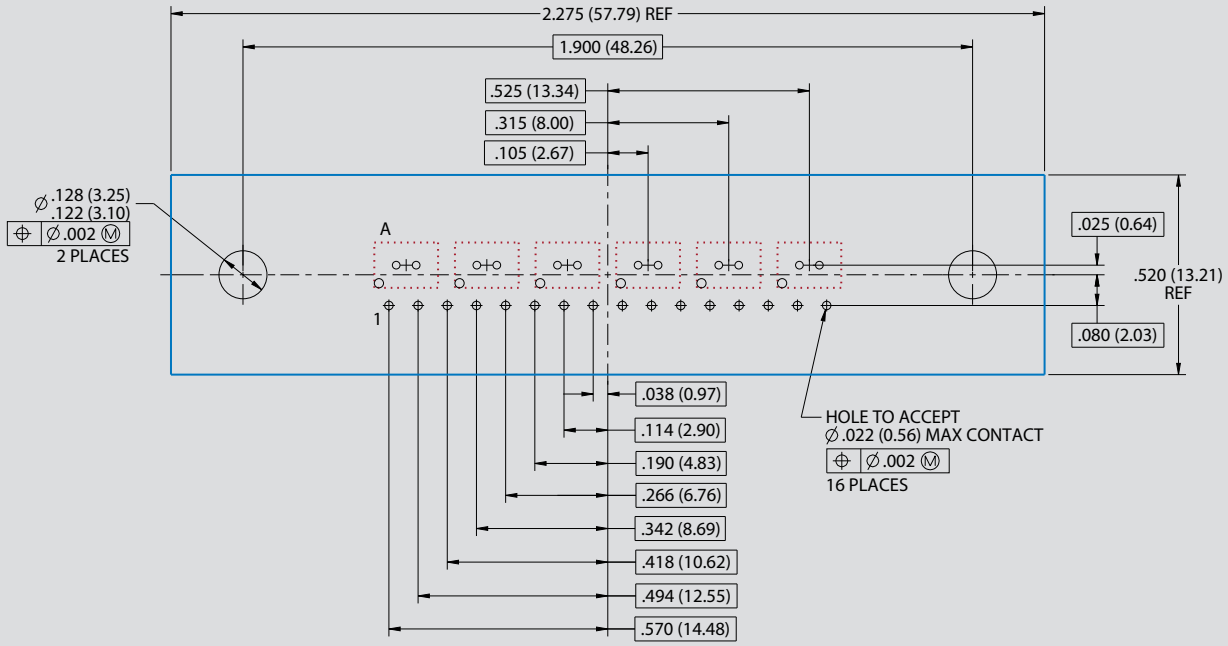
VERSALINK PAIR LAYOUT



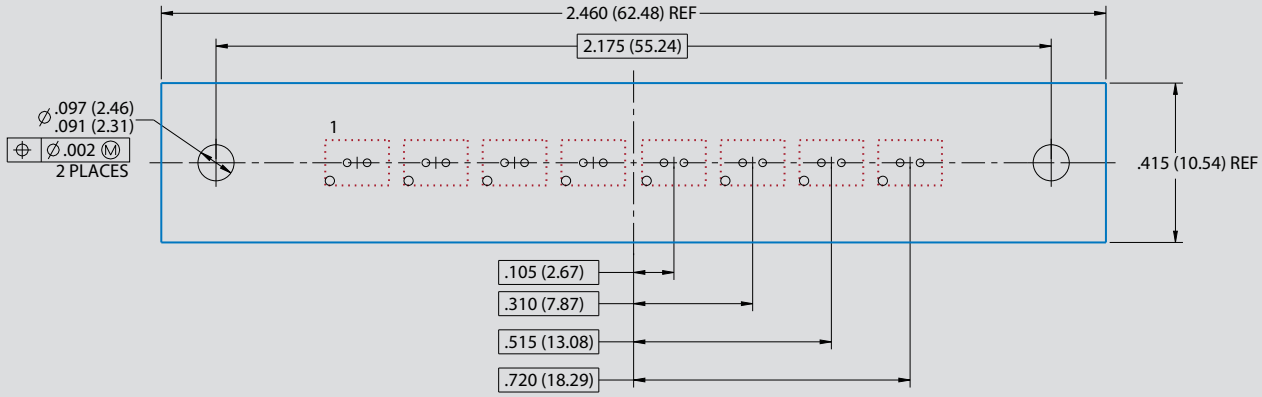
NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

799-196: Series 794 PCB Layouts



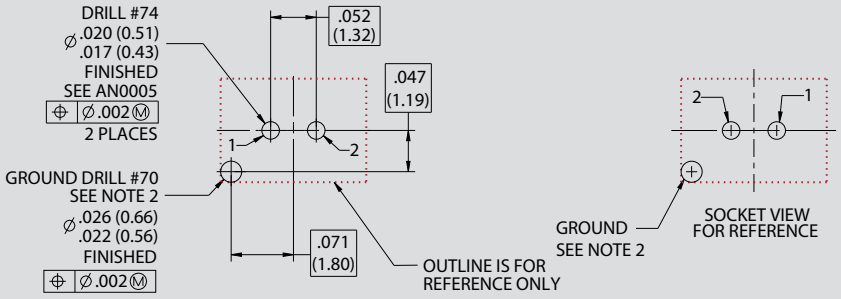
Arrangement No. H-6V16
6X VersaLink
16X 22HD
See Note 1 and 2



Arrangement No. K-8V
8X VersaLink
See Note 1 and 2

Approximate connector outline
Refer to VersaLink pair layout detail

VERSALINK PAIR LAYOUT



NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

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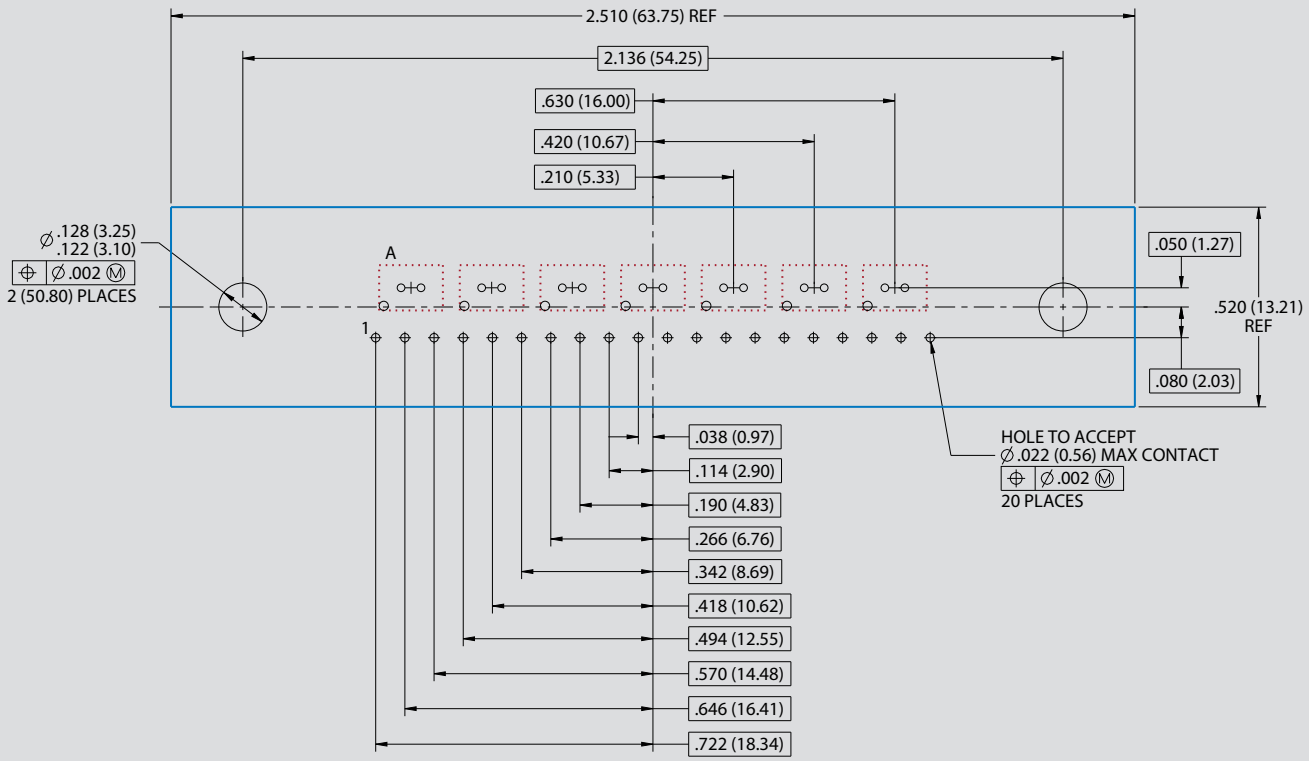
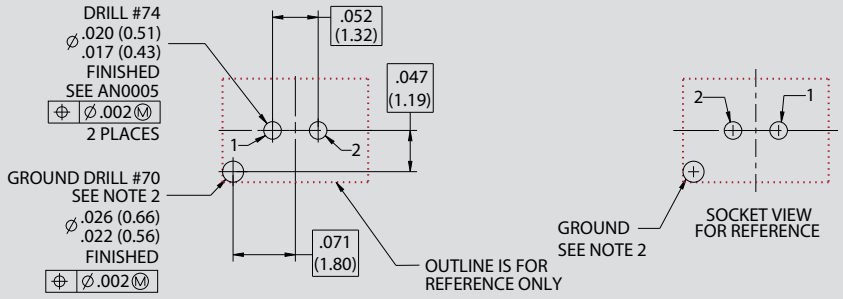
799-196: Series 794 PCB Layouts



Arrangement No. L-7V20
7X VersaLink
20X 22HD
See Note 1 and 2

Approximate connector outline
Refer to VersaLink pair layout detail

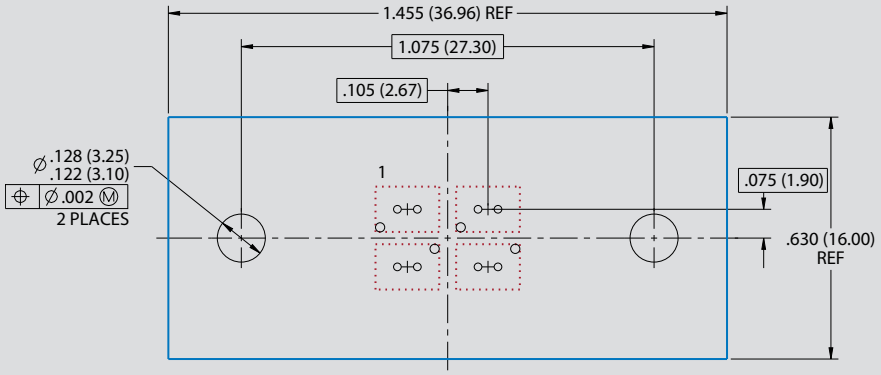
VERSALINK PAIR LAYOUT



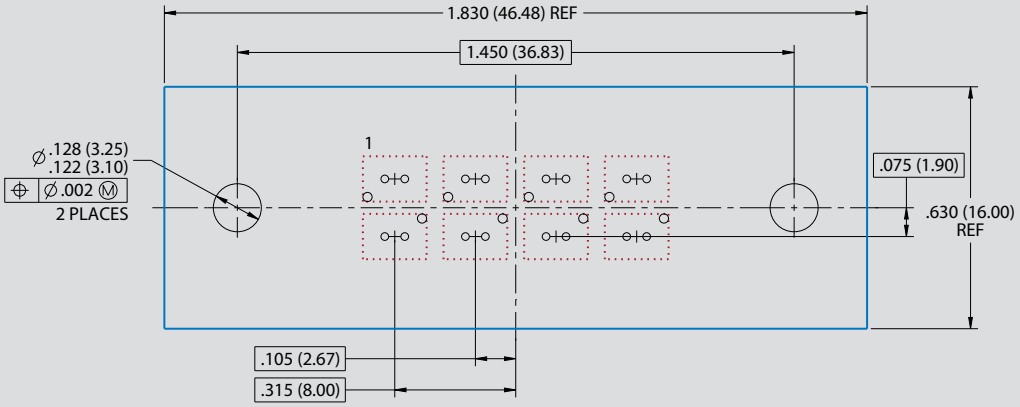
NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

799-196: Series 794 PCB Layouts



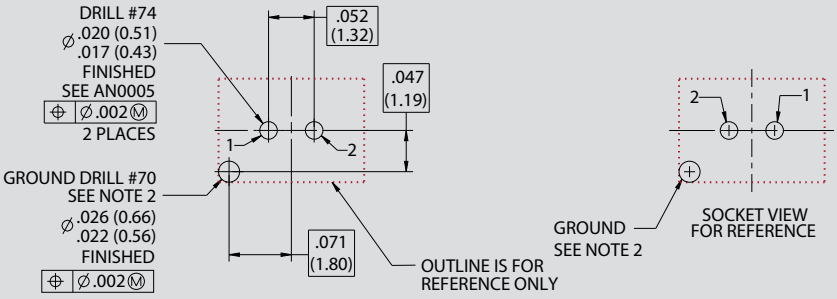
Arrangement No. P-4V
4X VersaLink
See Notes 1, 2, and 3



Arrangement No. Q-8V
8X VersaLink
See Notes 1, 2, and 3

Approximate connector outline
Refer to VersaLink pair layout detail

VERSALINK PAIR LAYOUT



NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

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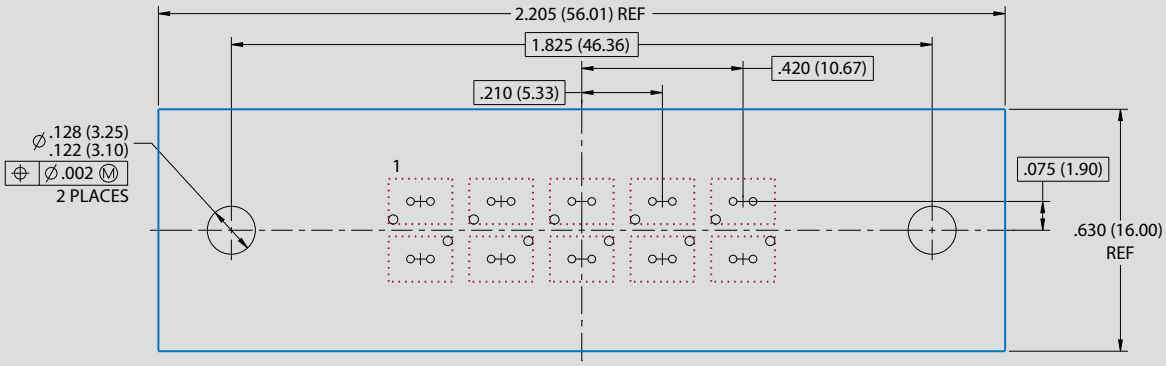
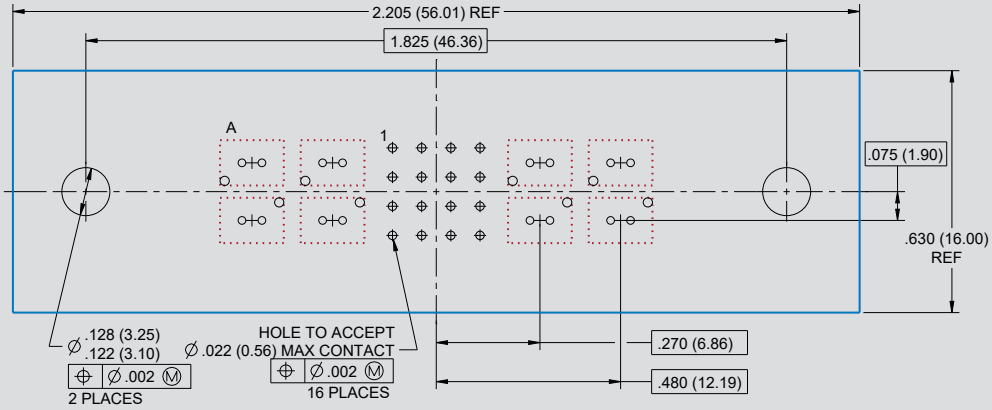
799-196: Series 794 PCB Layouts



Arrangement No. R-10V
10X VersaLink
See Notes 1, 2, and 3

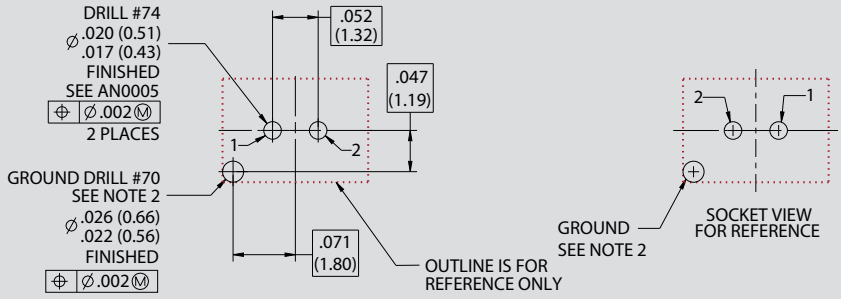


Arrangement No. R-8V16
8X VersaLink
16X 22HD
See Notes 1, 2, and 3

22HD LOCATIONS								
POS	X	Y	POS	X	Y	POS	X	Y
1	-0.114 (-2.90)	0.114 (2.90)	7	0.038 (0.97)	0.038 (0.97)	12	0.114 (2.90)	-0.038 (-0.97)
2	-0.038 (-0.97)	0.114 (2.90)	8	0.114 (2.90)	0.038 (0.97)	13	-0.114 (-2.90)	-0.114 (-2.90)
3	0.038 (0.97)	0.114 (2.90)	9	-0.114 (-2.90)	-0.038 (-0.97)	14	-0.038 (-0.97)	-0.114 (-2.90)
4	0.114 (2.90)	0.114 (2.90)	10	-0.038 (-0.97)	-0.038 (-0.97)	15	0.038 (0.97)	-0.114 (-2.90)
5	-0.114 (-2.90)	0.038 (0.97)	11	0.038 (0.97)	-0.038 (-0.97)	16	0.114 (2.90)	-0.114 (-2.90)
6	-0.038 (-0.97)	0.038 (0.97)						

Approximate connector outline Refer to VersaLink pair layout detail

VERSALINK PAIR LAYOUT



NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

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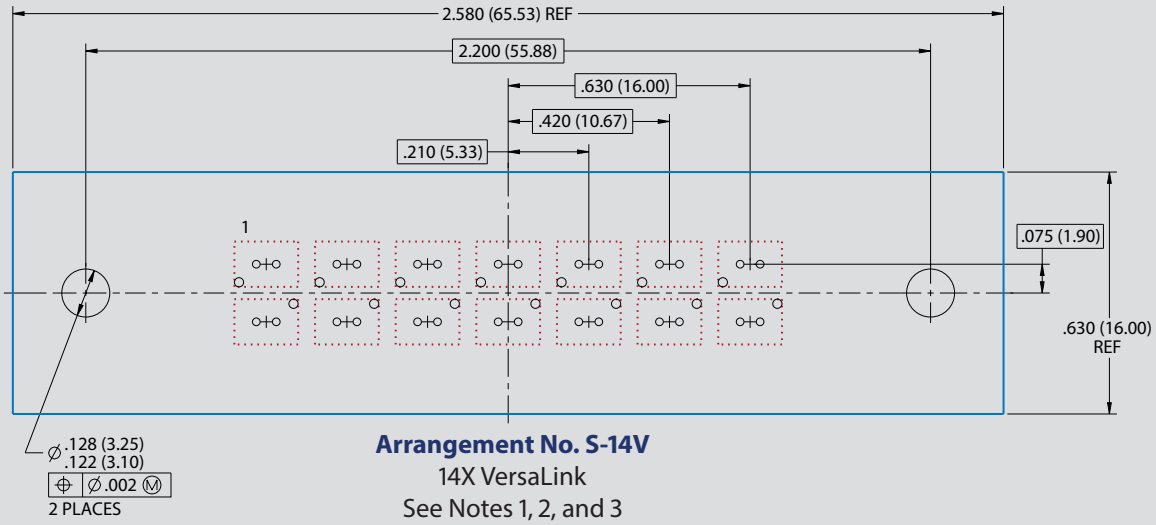
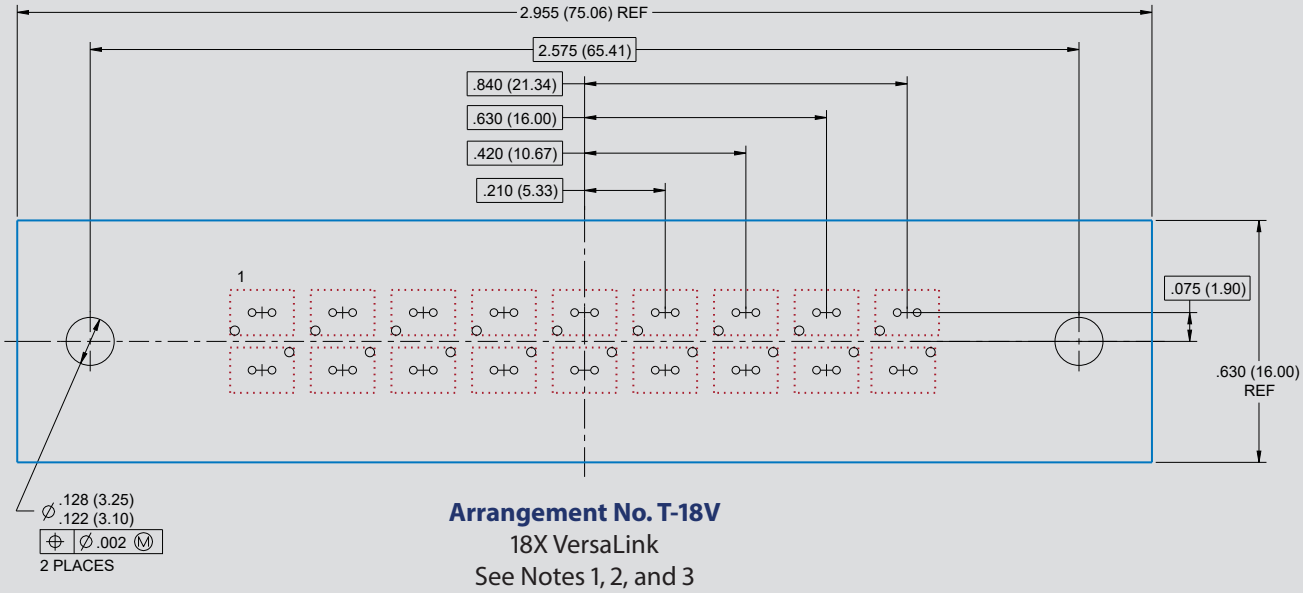
799-196: Series 794 PCB Layouts



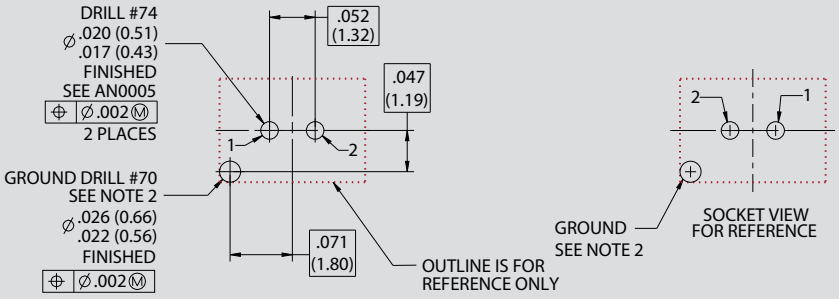
Arrangement No. S-14V
14X VersaLink
See Notes 1, 2, and 3



Arrangement No. T-18V
18X VersaLink
See Notes 1, 2, and 3

Approximate connector outline
Refer to VersaLink pair layout detail

VERSALINK PAIR LAYOUT



NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
4. The location given for each pair is the center of each pair layout.
5. See AN0005 for proper PCB design rules.

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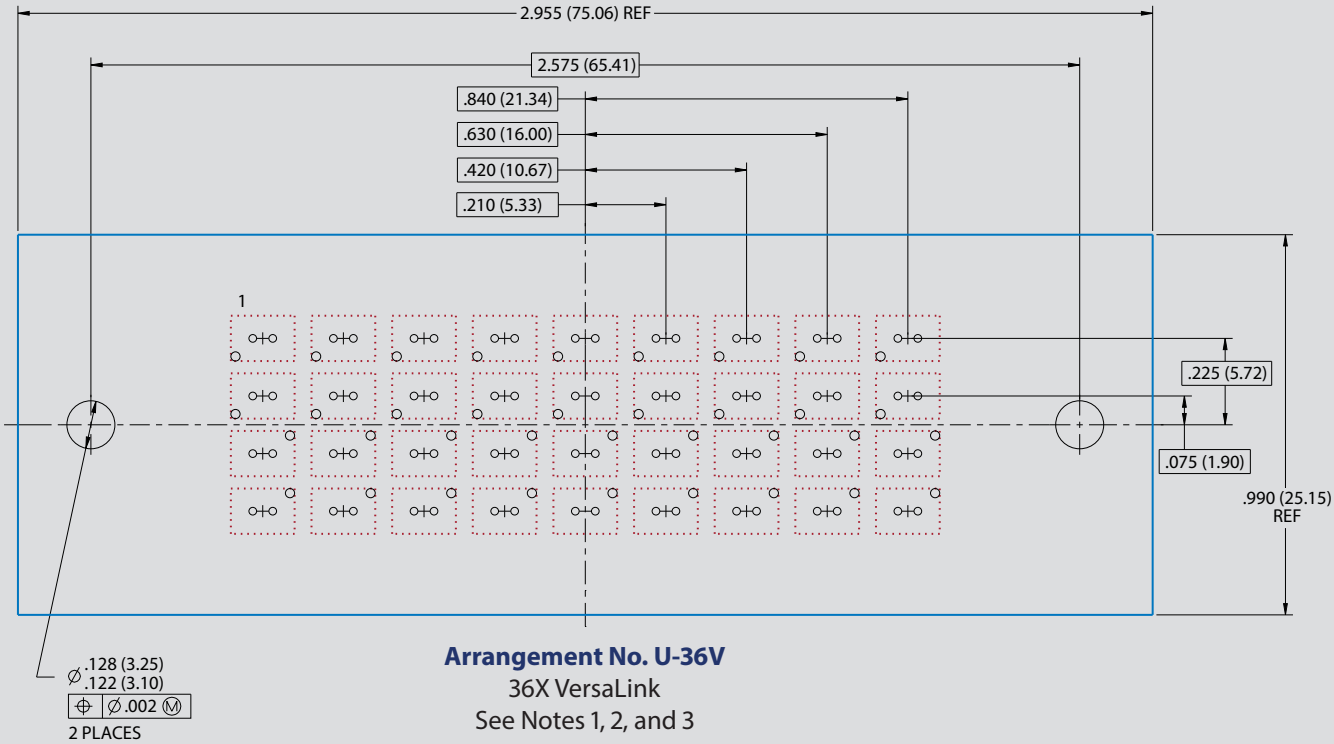
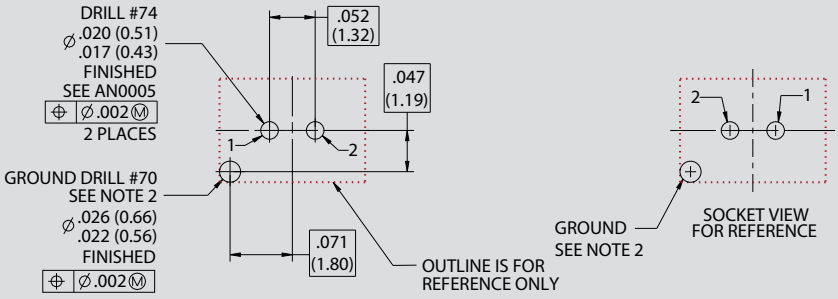
799-196: Series 794 PCB Layouts



Arrangement No. U-36V
36X VersaLink
See Notes 1, 2, and 3

Approximate connector outline
Refer to VersaLink pair layout detail

VERSALINK PAIR LAYOUT



NOTES

1. See 799-184 for cavity identifications.
2. Pin cavity locations shown. Socket arrangements are mirrored. Ground pin location constant.
3. Note the location of the ground leg within each arrangement.
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5. See AN0005 for proper PCB design rules.

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VersaLink™

Innovative differential twinax contact technology in a proven-performance mil-spec rectangular

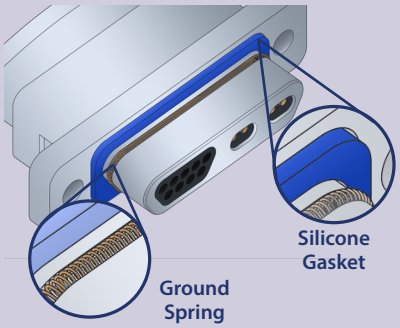
High-speed serial data protocols (USB 3.2, 40 Gb Ethernet, SATA, PCIe, DisplayPort, and HDMI) all have multigigabit transmission rates for each data pair. In order to provide truly high-speed signal integrity for these bandwidth-dependent protocols, Glenair has invented a new contact technology called VersaLink™ which delivers outstanding impedance matching and cross-talk isolation at both the cable-to-connector interface, as well as between connector and board. VersaLink is a highly-engineered differential twinax contact module that may be packaged in a wide range of both circular and rectangular connector formats such as the MIL-DTL-83513 Micro-D. This high-density, factory-terminated solution provides mating reliability, ruggedness, signal integrity, and deployment simplicity.

- **VersaLink Micro-D: shielded differential twinax M83513 solution**
- **High-speed / high-density**
- **Outstandingcrosstalk performance**
- **Hybrid VersaLink contact module arrangements with standard Micro-D inserts for signal / power**

Supported Networking Protocols
10, 25, 40, 50, and 100 Gb Ethernet

Supported Peripheral and Display Protocols	
DVI	USB 3.1 Type C
HDMI 2.1	USB 3.2
DisplayPort 2.0	USB4
SATA 3	PCIe 4
USB 3.0	QSFP28

EMI SHIELDING AND ENVIRONMENTAL SEALING



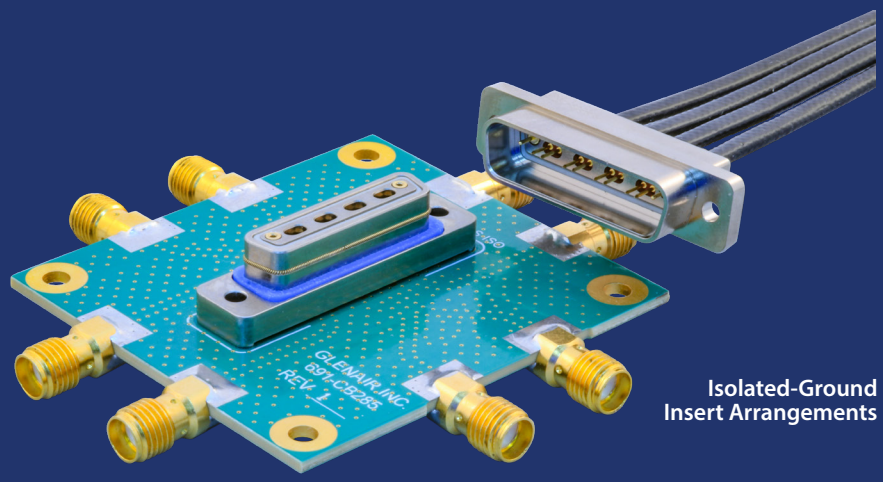
Plug connectors feature a gold-plated stainless steel ground spring for EMI protection, and a silicone gasket for environmental sealing.

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 Over Nickel 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
Contact Resistance (Contact M): 8 Milliohms Maximum
Low Level Contact Resistance: 32 Milliohms Maximum
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)



Isolated-Ground Insert Arrangements

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M83513 Micro-D VersaLink™ Connectors

Product Selection Guide

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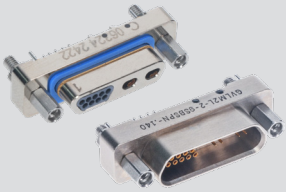
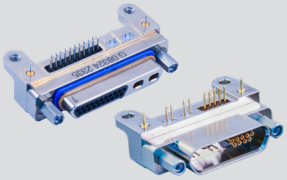
VersaLink Micro-D Panel Cutouts Page 95
GHS4-M-1001: Common-Ground Connector Single Ended Wiring Diagrams Page 96
GHS4-M-1001: Common-Ground Connector Double Ended Wiring Diagrams Page 97
GHS4-MS-1001: Isolated-Ground Connector Single Ended Wiring Diagrams Page 99
GHS4-MS-1001: Isolated-Ground Connector Double Ended Wiring Diagrams Page 100
Space-Grade Outgassing Modification Codes Page 101

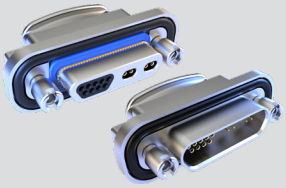
GHS4-M Pre-wired Common-Ground Connectors, Double or Single Ended. Page 102



GVLM-BS Common-Ground Straight PCB Plug and Receptacle Connectors. Page 104

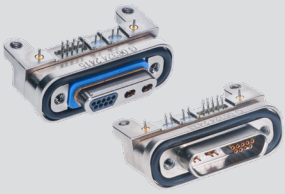


GVLM-BR Common-Ground PCB right-angle Plug and Receptacle Connectors. Page 121



GHS4-RPM Common-Ground Pre-Wired Rear Panel Mount Plug and Receptacle Connectors. Page 130

GVLRPM-BS Common-Ground Rear Panel Mount, Straight PCB Plug and Receptacle Connectors. Page 132



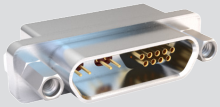
GVLRPM-BR Common-Ground Rear Panel Mount, Right Angle PCB Plug and Receptacle Connectors. Page 140

GHS4-MS Pre-Wired Isolated-Ground Connector. Double or Single Ended. Page 148

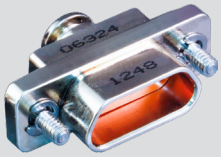
GVLMS-BS Board Mount Straight, Isolated-Ground Plug and Receptacle Connectors. Page 150

GVLMS-1007 Common-Ground Code Red Light Weight Hermetic Bulkhead Feedthru. Page 159

GVLM-USP1 Common-Ground Straight Unisaver. Page 161



GVLM-SP Shorting Plug for Common-Ground Design Layouts. Page 162



500-154 Protective Covers for Common-Ground Design Layouts. Page 164

179-266, 179-269, 179-295 VersaLink Jackpost Kits Page 166

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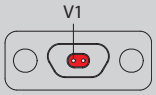
Insert Arrangement Layouts

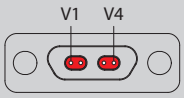
GHS4-M-1000: VERSALINK MICRO-D INSERT ARRANGEMENTS, COMMON-GROUND DESIGN, PLUG FACE VIEW

VersaLink module Standard Micro-D

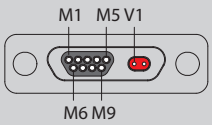
VersaLink Micro-D connectors are factory terminated. Plug connectors use Pin Micro-D contacts and Socket VersaLink contacts. Receptacles use Socket Micro-D contacts and Pin VersaLink contacts.



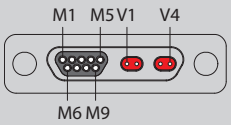
1-0 Plug - Shell Size 9
10Gbase-T1 Ethernet



2-0 Plug - Shell Size 15
SATA 3.0

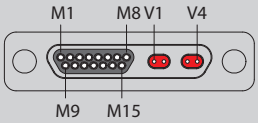


1-9 Plug - Shell Size 21

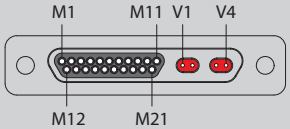


2-9 Plug- Shell Size 25
USB 3.0/3.1

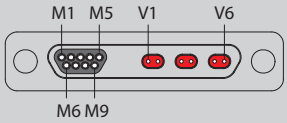
4-0 Plug - Shell Size 25
40 Gb Ethernet



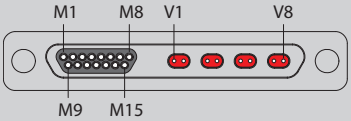
2-15 Plug - Shell Size 31



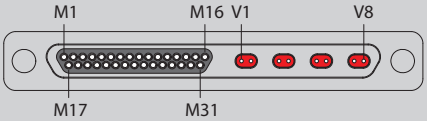
2-21 Plug - Shell Size 37



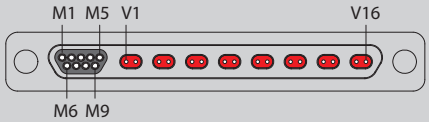
3-9 Plug -Shell Size 37



4-15 Plug - Shell Size 51-2
USB 3.1 Gen 2 Type C, USB 3.2, USB4, HDMI, DisplayPort, DVI Single Link



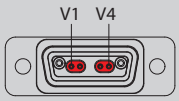
4-31 Plug - Shell Size 67



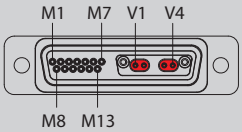
8-9 Plug - Shell Size 67

10-0 Plug - Shell Size 67

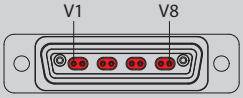
GHS4-MS-1000: VERSALINK MICRO-D ARRANGEMENTS, ISOLATED-GROUND DESIGN, PLUG FACE VIEW



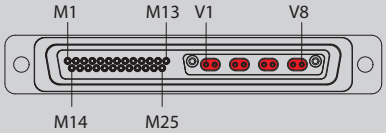
2-0 Plug
SATA 3.0



2-13 Plug
USB 3.0/3.1



4-0 Plug
40 Gb Ethernet



4-25 Plug
USB 3.1 Gen 2 Type C, USB 3.2, USB4 HDMI, DisplayPort, DVI Single Link

8-0 Plug

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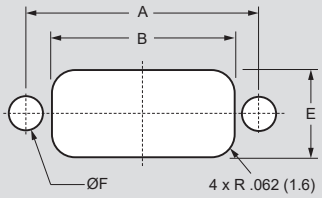
VersaLink Micro-D (MIL-DTL-83513 Type) Rear Panel Mount Cutouts

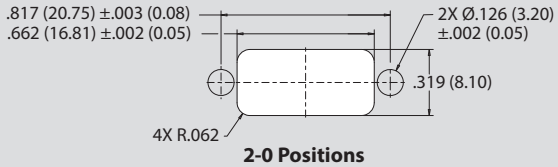
MIL-DTL-83513 TYPE REAR PANEL MOUNT CUTOUT FOR GHS4-M AND GVLM CONNECTORS

GVLM Layout	Micro-D Layout X-Ref	A ± .003 (± 0.08)	B ± .002 (0.05)	E + .005 (0.13) - .000 (0.00)	F ± .002 (0.05)
1-0	9	.565 (14.35)	.410 (10.41)	.256 (6.50)	.126 (3.20)
2-0	15	.715 (18.16)	.560 (14.22)	.256 (6.50)	.126 (3.20)
1-9	21	.865 (21.97)	.710 (18.03)	.256 (6.50)	.126 (3.20)
2-9, 4-0	25	.965 (24.51)	.810 (20.57)	.256 (6.50)	.126 (3.20)
2-15	31	1.115 (28.32)	.960 (24.38)	.256 (6.50)	.126 (3.20)
2-21, 3-9	37	1.265 (32.13)	1.110 (28.19)	.256 (6.50)	.126 (3.20)
4-15	51-2	1.615 (41.02)	1.460 (37.08)	.256 (6.50)	.126 (3.20)
10-0, 4-31, 8-9	67	2.015 (51.18)	1.858 (47.19)	.256 (6.50)	.126 (3.20)

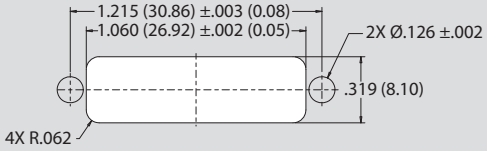


Rear Panel Mount

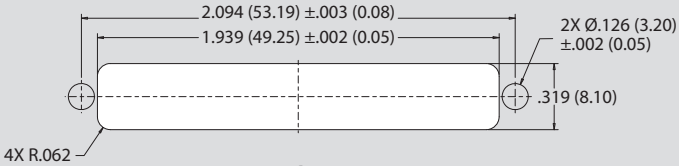
GHS4-M-1003 REAR PANEL MOUNT CUTOUTS FOR GHS4-MS & GVLMS-BS CONNECTORS



2-0 Positions

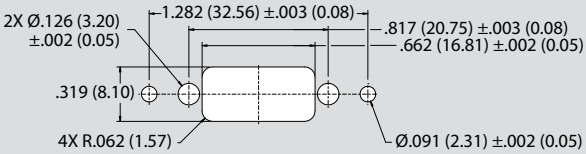


2-13 and 4-0 Positions

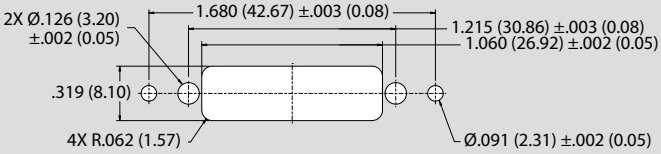


4-25 and 8-0 Pin

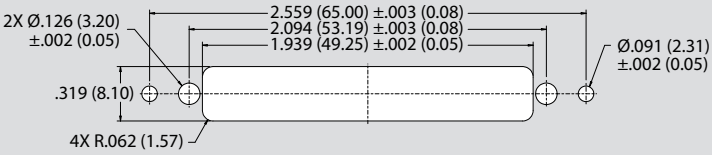
GVLM-1005 PANEL MOUNT CUTOUTS FOR GVLMS-BS CONNECTORS WITH 'L/LU' HARDWARE



2-0 POSITION FOR "L" HARDWARE



2-13 & 4-0 POSITIONS FOR "L" HARDWARE



4-25 & 8-0 POSITIONS FOR "L" HARDWARE

DISTANCE BETWEEN MATED PAIR MICRO-D FLANGES

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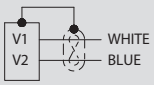
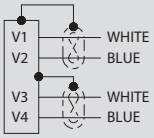
GHS4-M-1001: Common-Ground Connector Single Ended Wiring Diagrams

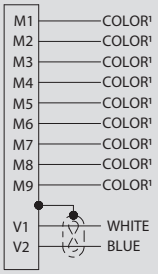
1-0 POSITION
SIZE 9



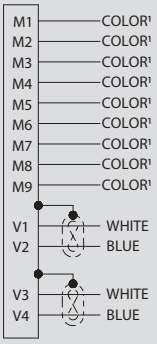
2-0 POSITION
SIZE 15



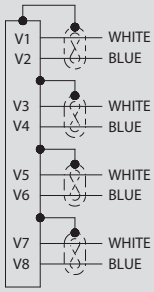
1-9 POSITION
SIZE 21



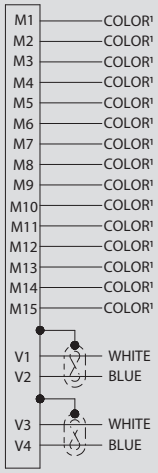
2-9 POSITION
SIZE 25



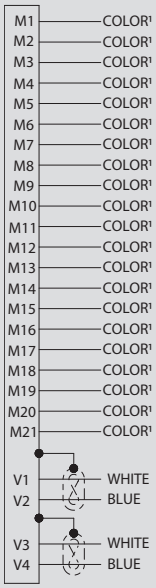
4-0 POSITION
SIZE 25



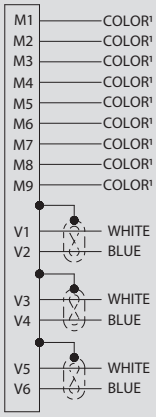
2-15 POSITION
SIZE 31



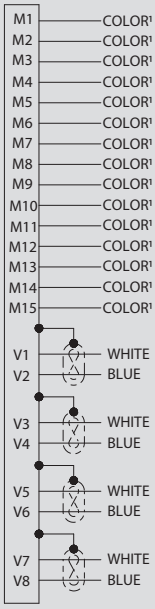
2-21 POSITION
SIZE 37



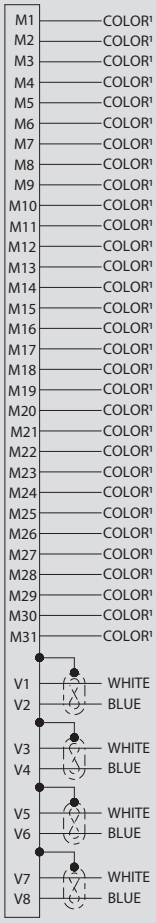
3-9 POSITION
SIZE 37



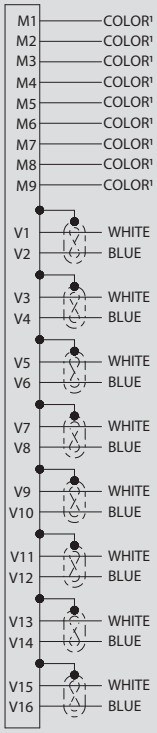
4-15 POSITION
SIZE 51-2



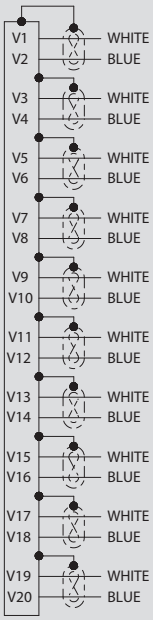
4-31 POSITION
SIZE 67



8-9 POSITION
SIZE 67



10-0 POSITION
SIZE 67



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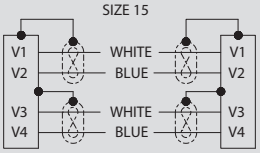
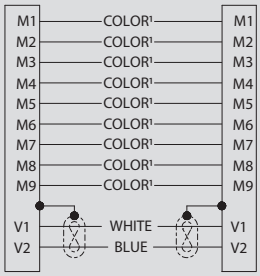
GHS4-M-1001: Common-Ground Connector Double Ended Wiring Diagrams

1-0 POSITION
SIZE 9

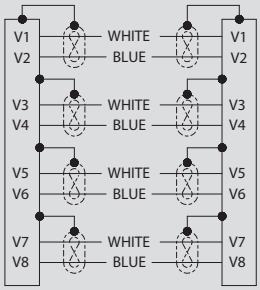
2-0 POSITION
SIZE 15



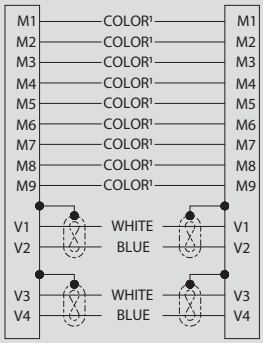
1-9 POSITION
SIZE 21



4-0 POSITION
SIZE 25



2-9 POSITION
SIZE 25



2-15 POSITION
SIZE 31

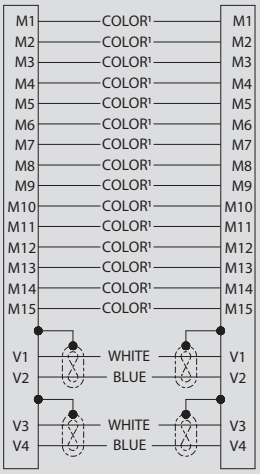


FIGURE 1
MATING FACE ORIENTATION
PLUG TO PLUG (GP)

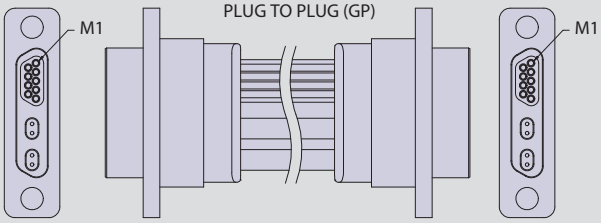


FIGURE 2
MATING FACE ORIENTATION
RCPT TO RCPT (GS)

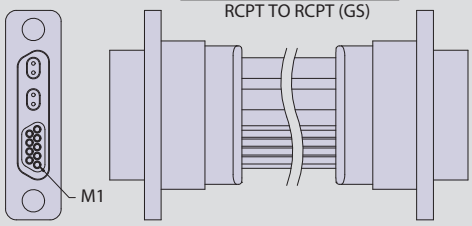
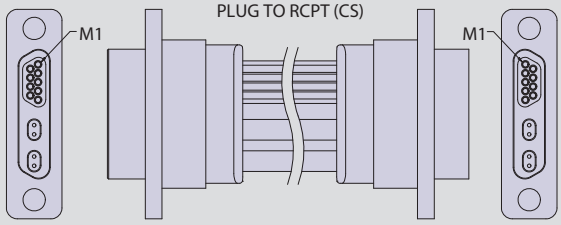


FIGURE 3
MATING FACE ORIENTATION
PLUG TO RCPT (CS)



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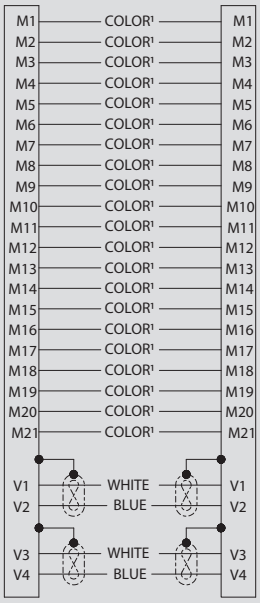
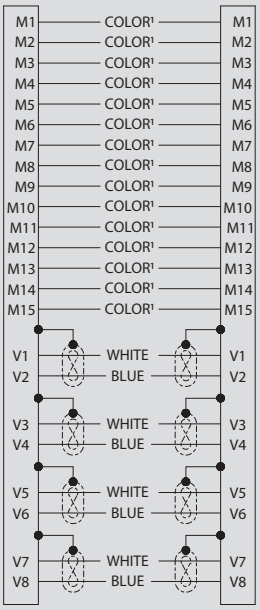
GHS4-M-1001: Common-Ground Connector Double Ended Wiring Diagrams

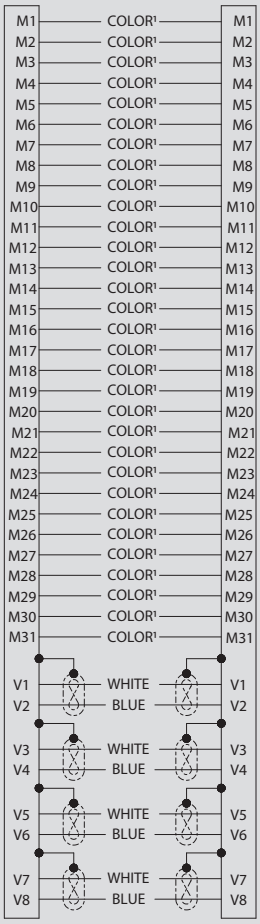
2-21 POSITION
SIZE 37



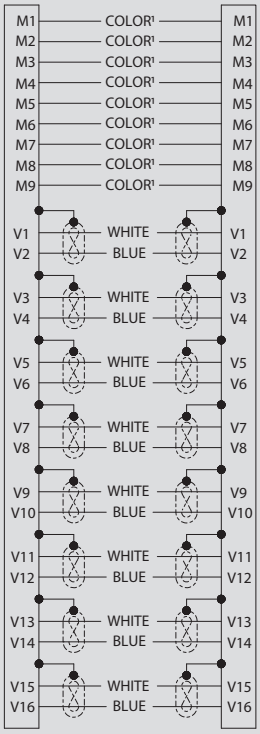
4-15 POSITION
SIZE 51-2



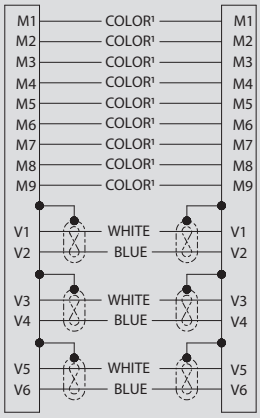
4-31 POSITION
SIZE 67



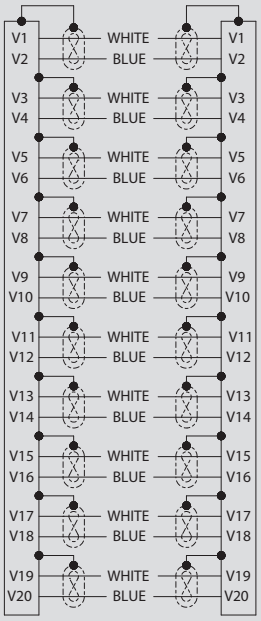
8-9 POSITION
SIZE 67



3-9 POSITION
SIZE 37



10-0 POSITION
SIZE 67



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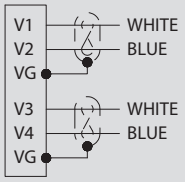
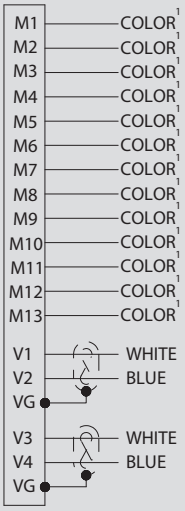
GHS4-MS-1001: Isolated-Ground Connector Single Ended Wiring Diagrams

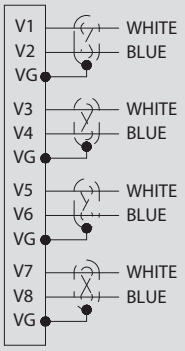
2-0 POSITION



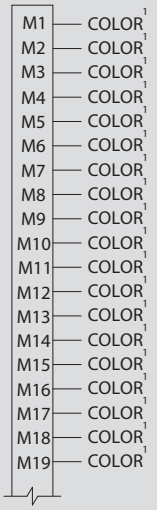
2-13 POSITION

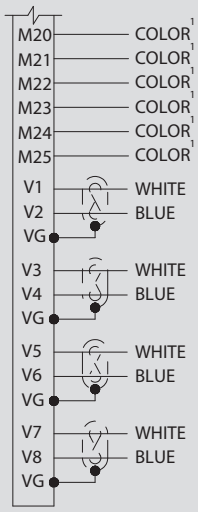


4-0 POSITION

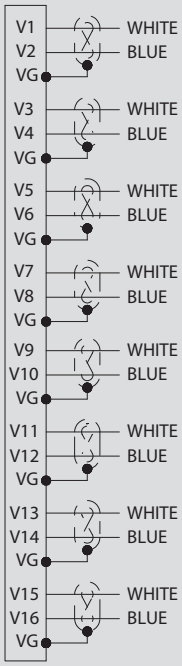


4-25 POSITION





8-0 POSITION



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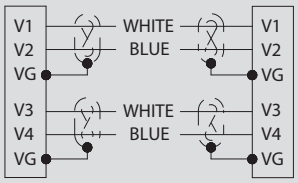
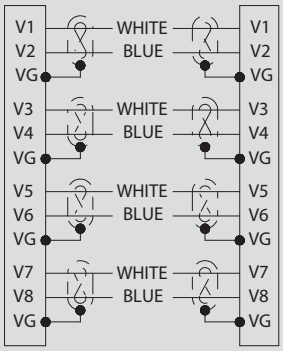
GHS4-MS-1001: Isolated-Ground Connector Double Ended Wiring Diagrams

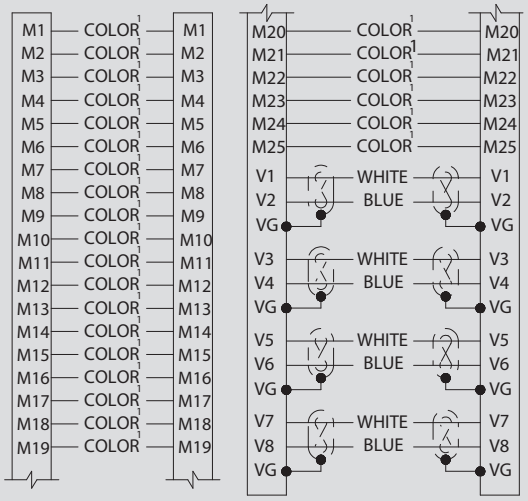
2-0 POSITION



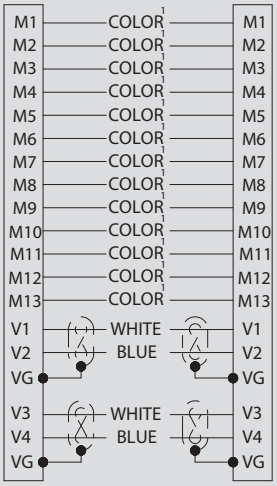
4-0 POSITION



4-25 POSITION



2-13 POSITION



8-0 POSITION

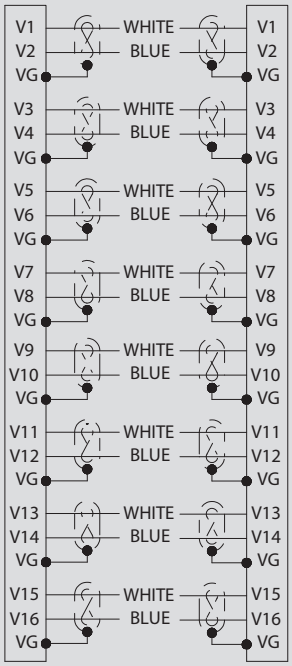


FIGURE 1
MATING FACE ORIENTATION
PLUG TO PLUG (GP)

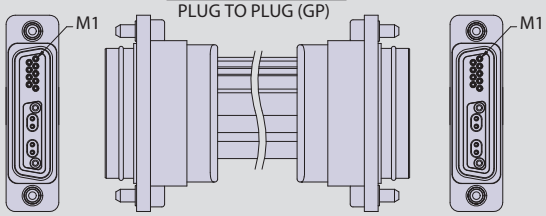


FIGURE 2
MATING FACE ORIENTATION
RCPT TO RCPT (GS)

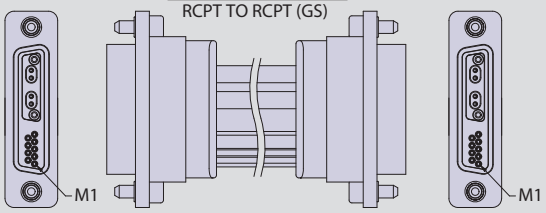
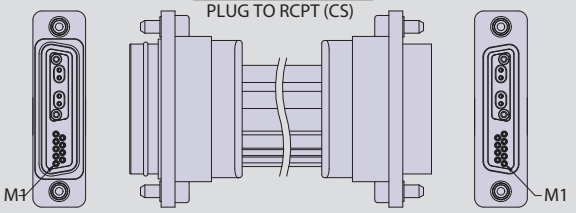


FIGURE 3
MATING FACE ORIENTATION
PLUG TO RCPT (CS)



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M83513 Micro-D VersaLink™ Connectors

Space-Grade Outgassing Modification Codes

Do Micro-D connectors meet outgassing requirements?

Connectors must be vacuum baked to guarantee compliance with outgassing limits established by NASA and military space programs. The requirements are 1.0 % Total Mass Loss (TML) and 0.1% Collected Volatile Condensable Material (CVCM). ASTM E595 defines the test procedure.

What is vacuum bakeout?

Connectors are placed in a calibrated thermal vacuum oven/chamber for 24 hours at +125°C and a vacuum of 10^{-6} Torr.

Are Micro-D connectors non-magnetic?

Micro-D connectors meet the 2.0µ magnetic permeability requirement of EIA-364-54. Additional residual magnetism screening is available on request.

High-Speed VersaLink connector is a high density, lightweight, high performance connector ideal for space flight applications. These connectors are available with NASA-grade screening and vacuum bakeout for high reliability space programs.

1. **Find the right modification code in the table below.**
2. **Add the "Mod Code" to the connector part number.**
   Example:

SCREENING LEVEL AND AVAILABLE OUTGASSING MODIFICATION CODES

NASA Screening Level	Screening Type	No Outgas Processing	Face Seal Deleted (Plug Only)	48 Hour Oven Bake 125° C.	Thermal Vacuum* Outgassing 24 hrs. 125° C.	Mod Code
1	Highest Reliability	●				429B
			●			429F
				●		429J
					●	429C
2	High Reliability	●				429
			●			429D
				●		429K
					●	429A
3	Standard Reliability	‡	●			432
				●		186S
					●	186M

* Thermal vacuum of 10^{-6} Torr. ‡ Use standard part number

NASA SCREENING REQUIREMENTS (EEE-INST-002 TABLE 2C)

Inspection/Test	NASA Screening Level: Level 1 Highest Reliability	NASA Screening Level: Level 2 High Reliability
Visual Inspection	100% 10X magnification	100% 10X magnification
Mechanical Inspection	2 connectors 10X magnification	2 connectors 10X magnification
DWV/IR	2 connectors	2 connectors
Contact Separation Force (Connectors with non-removable contacts)	2 connectors	Not required
Mating and Unmating Force	2 connectors	Not required

COMPONENT OUTGASSING PROPERTIES

Component	Material	TML%	CVCM%	Test Reference
VersaLink Insulator	GPS173	0.20	0.01	Glenair test at Pacific Testing Laboratories 7-19-2021
Micro-D Insulator	LCP	0.07	0.00	Glenair test at Pacific Testing Laboratories 7-25-2017
Peripheral Seal	70/30 Fluorosilicone/ Silicone Blend*	0.12	0.02	Glenair test at Pacific Testing Laboratories 6-17-2020
Rear Insulator (Right angle only)	PTFE	0.01	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Organizer (Right angle only)	PPS	0.08	0.00	NASA Outgassing Data for Selecting Spacecraft Materials
Epoxy	Hysol EE-4215	0.55	<0.01	Glenair test at Pacific Testing Laboratories 7-25-2017
Epoxy (Cable conn. only)	Duralco 120	0.33	0.01	NASA Outgassing Data for Selecting Spacecraft Materials

* Per GPS78 Grade 40

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GHS4-M Wired Micro-D Connector with VersaLink Contacts

MATERIALS AND FINISHES

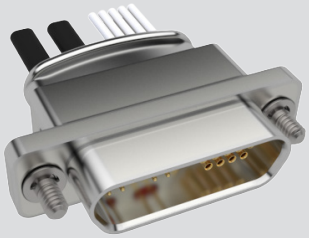
- Connector shell: aluminum alloy 6061
- Insulator (v): rigid dielectric
- Insulator (m): liquid crystal polymer (LCP) or polyphenylene sulfide (PPS)
- Flange seal: fluorosilicone rubber, blue
- Pin contact: copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating
- Ground spring: stainless steel, gold plating
- Ground pin:
- Hardware: 300 series stainless steel, passivated
- Encapsulant: epoxy resin hysol EE4215 and Duralco 120

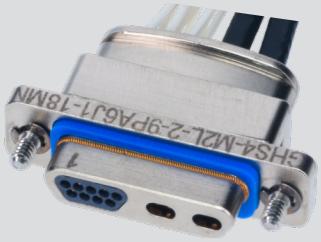
PERFORMANCE SPECIFICATIONS

- 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

NOTES

1. Refer to GHS4-M-1000 for insert arrangement details on page 94.
2. Refer to GHS4-M-1001 for wire diagrams on page 96.
3. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts. GP and GS cable ends rotated 180° out of phase due to connector symmetry.
4. Omit wire information when contact layout "M" = 0. (e.g, 1-0, 2-0, 4-0, 10-0).
5. Hardware always required to ensure connector pair is fully mated when installed.
6. Refer to 500-154 for protective cover on page 164.
7. Glenair VersaLink Micro-D pre-wired connectors are only available factory terminated.





PART NUMBER DEVELOPMENT

Sample Part Number	GHS4-M	2	L-	2-9	P	C	6	J	1	-18	R	N
Series	**GHS4-M** = Wired 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[3]	**P** = Plug (Single-End) **S** = Receptacle (single-end) **GP** = Double-end cable, plug connectors both ends **GS** = Double-end cable, receptacle connectors both ends **CS** = Double-end cable, plug and rcpt											
VersaLink Cable Type	**B** = 963-068-26 (100 Ohm) **C** = 963-069-26 (100 Ohm) See VersaLink Contact Section											
Discrete Wire Gage (AWG)[4]	**4** = #24 **6** = #26 **8** = #28 **0** = #30 (J Wire Type Only)											
Discrete Wire Type[4]	**K** = M22759/11 600 VRMS Teflon (TFE) **J** = M22759-33 600 VRMS modified cross-linked Tefzel (ETFE) **E** = NEMA HP3-EB 600 VRMS Type E, M16878/4 (TFE)											
Discrete Wire Color[4]	**1** = White **5** = Color-coded stripes per MIL-STD-681 **7** = Ten color repeating											
Wire Length	Wire length in inches. "18" equals 18in. 6 inches minimum											
Hardware[5] (see mounting hardware table)	**P**, **M**, **S**, **L**; see mounting hardware 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											
Shield and Jacket Option	**X** - ArmorLite braided microfilament stainless steel shield with E-Ctfe Halar "Expando" jacket **W** - ArmorLite braided microfilament stainless steel shield **Z** - 75% Braided AmberStrand shield with E-Ctfe Halar "Expando" Jacket **V** - 75% braided AmberStrand shield **T** - 100% braided AmberStrand shield with E-Ctfe Halar "Expando" jacket **S** - 100% braided AmberStrand shield **C** - Braided shield (nickel over copper) with E-Ctfe Halar "Expando" Jacket **A** - Braided shield (nickel over copper) **N** - No shield, no jacket (customer to install)											

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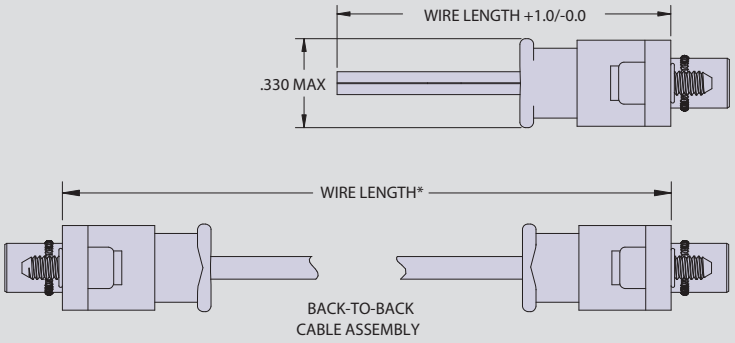
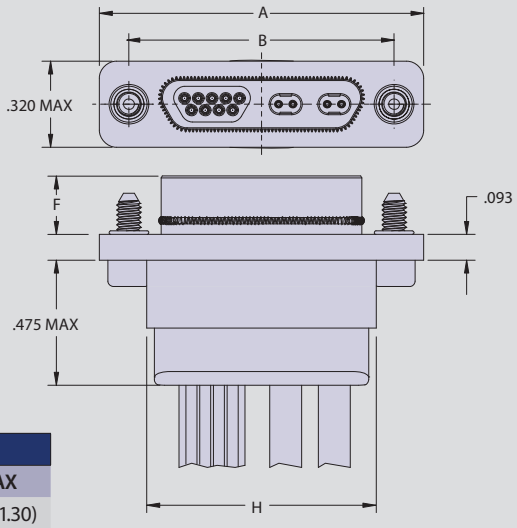
M83513 Micro-D VersaLink™ Connectors

GHS4-M Wired Connector with VersaLink Contacts



* WIRE LENGTH TOLERANCE UP TO 60" +2"/-0"; GREATER THAN 60" +3%/-0%.

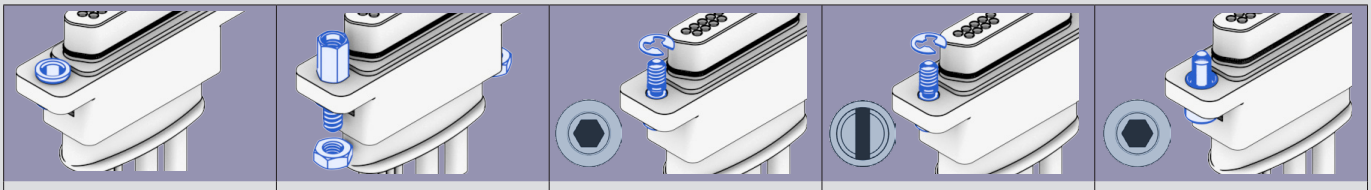


DIMENSIONS						
LAYOUT	A MAX	B±.003	C MAX	D MAX	F±.003	H MAX
1-0P	0.785 (19.94)	0.565 (14.35)	0.333 (8.46)	0.184 (4.67)	0.213 (5.41)	0.445 (11.30)
1-0S	0.785 (19.94)	0.565 (14.35)	0.400 (10.16)	0.250 (6.35)	0.225 (5.72)	0.445 (11.30)
2-0P	0.935 (23.75)	0.715 (18.16)	0.483 (12.27)	0.184 (4.67)	0.213 (5.41)	0.595 (15.11)
2-0S	0.935 (23.75)	0.715 (18.16)	0.551 (14.00)	0.250 (6.35)	0.225 (5.72)	0.595 (15.11)
1-9P	1.085 (27.56)	0.865 (21.97)	0.633 (16.08)	0.184 (4.67)	0.213 (5.41)	0.745 (18.92)
1-9S	1.085 (27.56)	0.865 (21.97)	0.701 (17.81)	0.250 (6.35)	0.225 (5.72)	0.745 (18.92)
2-9P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.213 (5.41)	0.845 (21.46)
2-9S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.225 (5.72)	0.845 (21.46)
4-0P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.213 (5.41)	0.845 (21.46)
4-0S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.225 (5.72)	0.845 (21.46)
2-15P	1.335 (33.91)	1.115 (28.32)	0.833 (21.16)	0.184 (4.67)	0.213 (5.41)	0.995 (25.27)
2-15S	1.335 (33.91)	1.115 (28.32)	0.951 (24.16)	0.250 (6.35)	0.225 (5.72)	0.995 (25.27)
2-21P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	0.184 (4.67)	0.213 (5.41)	1.145 (29.08)
2-21S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	0.225 (5.72)	1.145 (29.08)
3-9P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	0.184 (4.67)	0.213 (5.41)	1.145 (29.08)
3-9S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	0.225 (5.72)	1.145 (29.08)
4-15P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	0.184 (4.67)	0.213 (5.41)	1.495 (37.97)
4-15S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	0.250 (6.35)	0.225 (5.72)	1.495 (37.97)
4-31P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
4-31S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)
8-9P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
8-9S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)
10-0P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
10-0S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)

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

MOUNTING HARDWARE



R1 - R6	P	M	S	L
Rear Panel Mount Jackposts	Jackpost	Hex Head Jackscrew	Slot Head Jackscrew	Hex Head Jackscrew, Non-Removable

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Dimensions in Inch (millimeter) are subject to change without notice.

M83513 Micro-D VersaLink™ Connectors

GVLM-BS, Straight PCB Connector

MATERIALS AND FINISHES

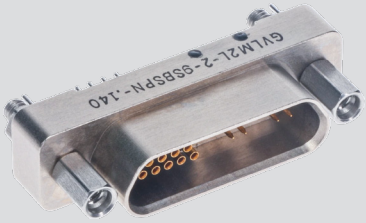
- Connector shell: aluminum alloy 6061
- Insulator (v): rigid dielectric
- Insulator (m): liquid crystal polymer (LCP) or polyphenylene sulfide (PPS)
- Flange seal: fluorosilicone rubber, blue
- Pin contact: copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating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

1. Refer to GHS4-M-1000 for insert arrangement details on page 94.
2. Refer to GVLM-1000 for GVLM-BS PCB footprints on page 106.
3. Refer to GVLM-1005 details on page 95.
4. Recommended mating dimensions must be maintained when no hardware is used, see page 95.
5. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
6. PC tails are solder-dipped in 60/40 tin-lead solder.
7. 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

PN
Extended Jackpost and Lockwasher

R1-R6
Rear Panel Mount Jackposts

L
Hex Head Jackscrew, with Threaded Insert

LU
Hex Head Jackscrew, with Thru-Hole

INSERT ARRANGEMENTS

Insert Arrangements	No. of Contacts VersaLink (V)	No. of Contacts 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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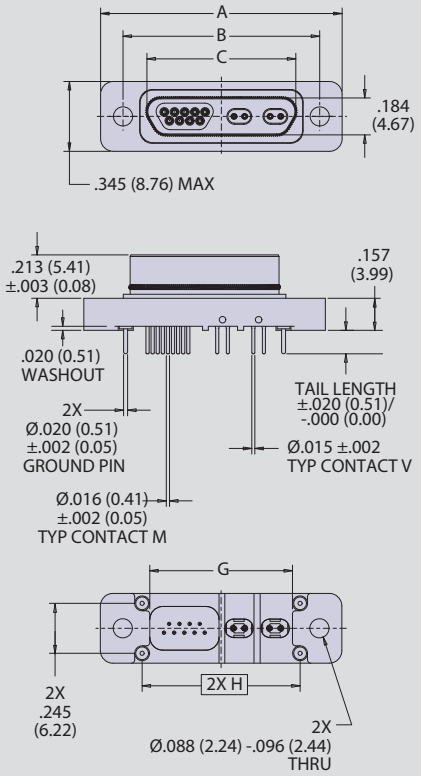
Dimensions in Inch (millimeter) are subject to change without notice.

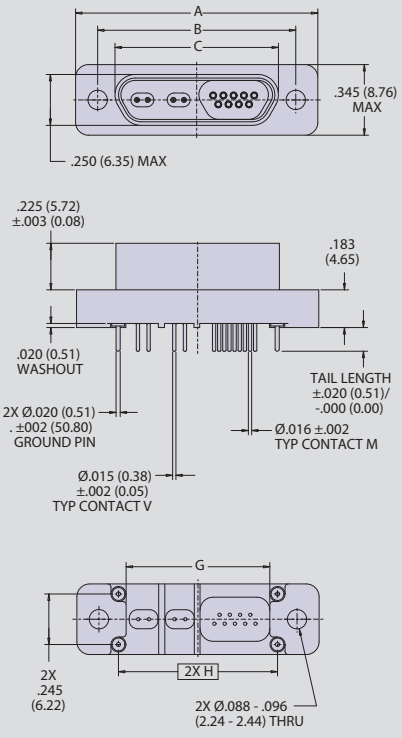
M83513 Micro-D VersaLink™ Connectors

GVLM-BS, Straight PCB Connector

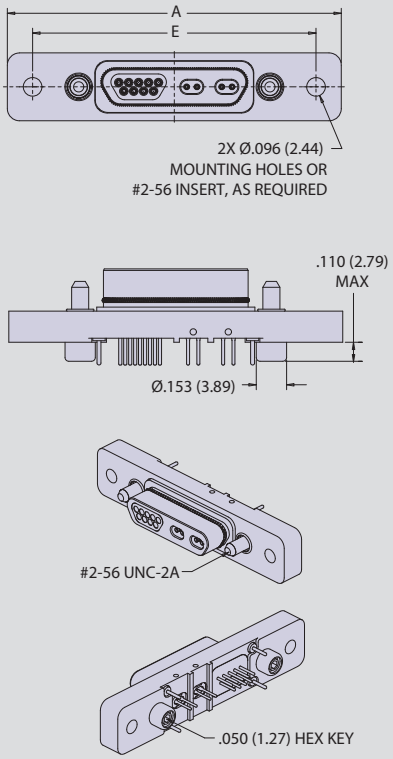
GVLM-BS PLUG



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)

RECEPTACLEDIMENSIONS					
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/LUDIMENSIONS		
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)

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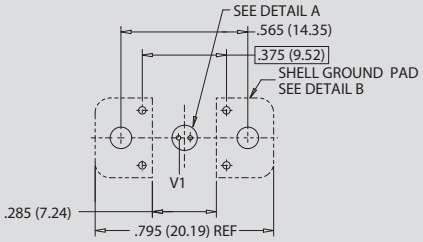
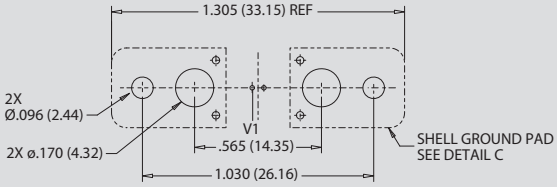
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

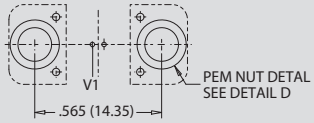
Plug Layout 1-0



JACKPOST HARDWARE (PN)

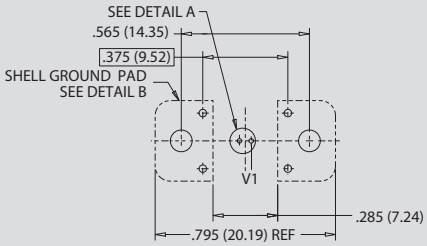


JACKSCREW HARDWARE (L/LU)

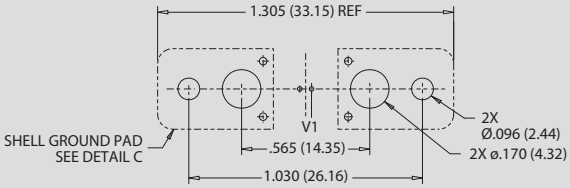


REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

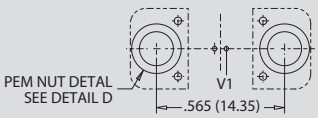
Receptacle Layout 1-0



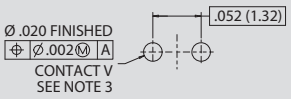
JACKPOST HARDWARE (PN)



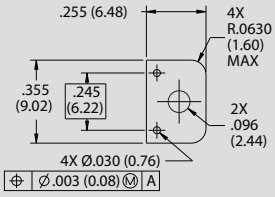
JACKSCREW HARDWARE (L/LU)



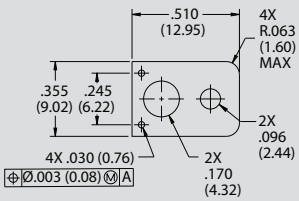
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



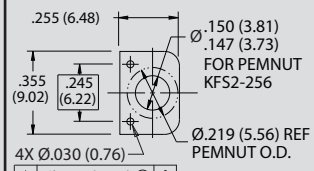
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.
4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

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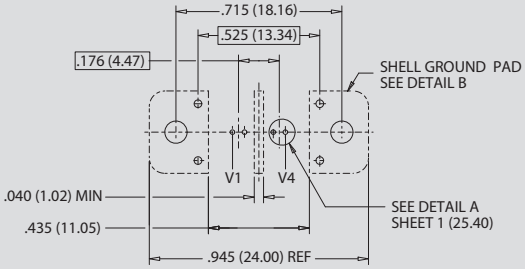
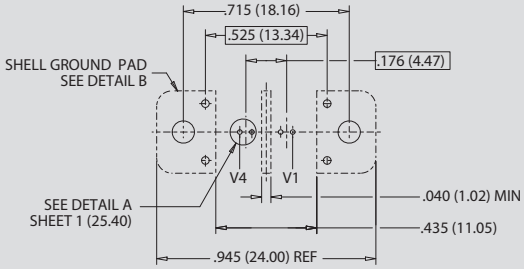
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

Plug Layout 2-0

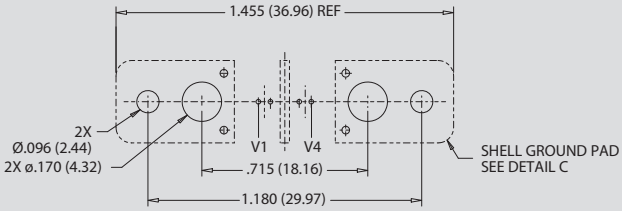


JACKPOST HARDWARE (PN)

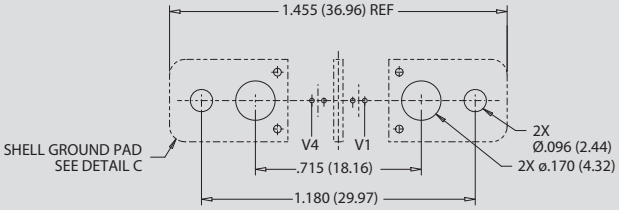
Receptacle Layout 2-0



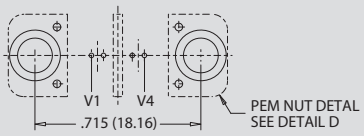
JACKPOST HARDWARE (PN)



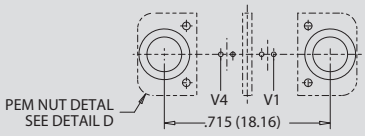
JACKSCREW HARDWARE (L/LU)



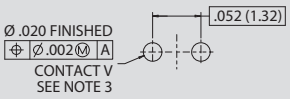
JACKSCREW HARDWARE (L/LU)



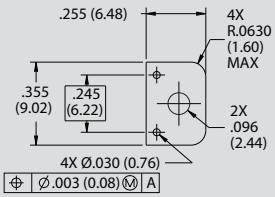
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



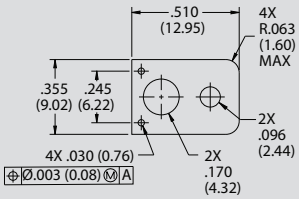
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



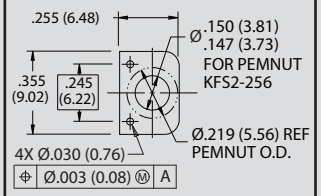
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLM-BS for connector details.
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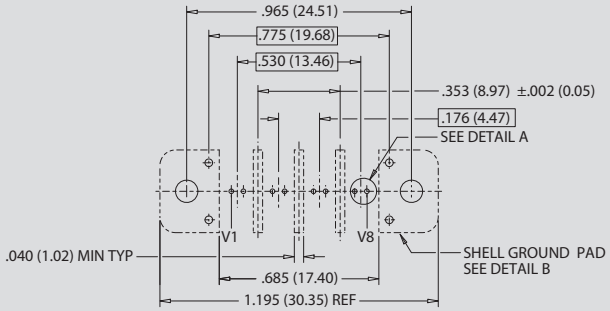
4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

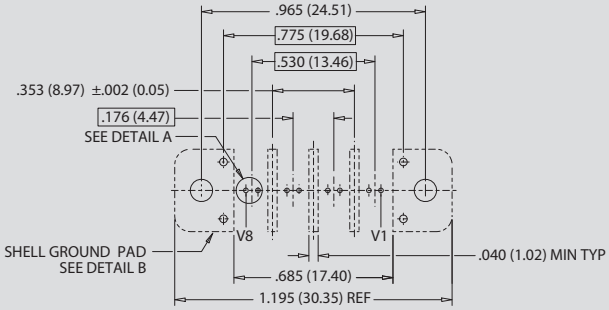
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

Plug Layout 4-0

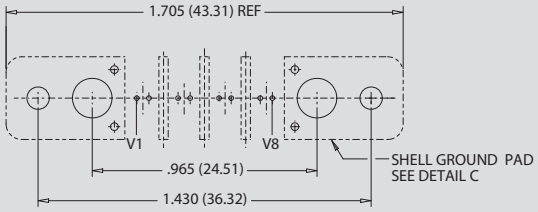


JACKPOST HARDWARE (PN)

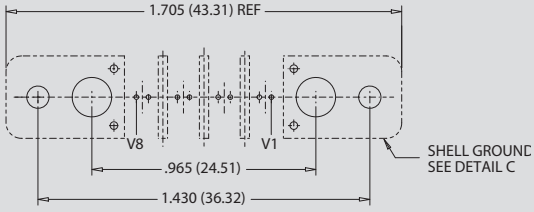
Receptacle Layout 4-0



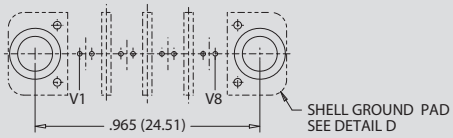
JACKPOST HARDWARE (PN)



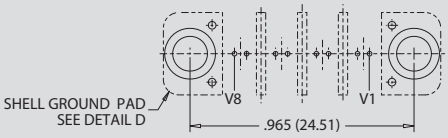
JACKSCREW HARDWARE (L/LU)



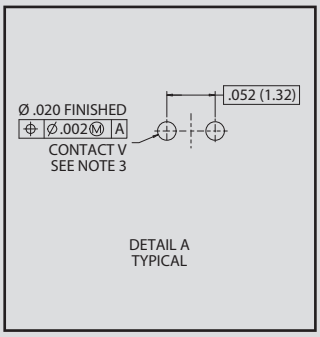
JACKSCREW HARDWARE (L/LU)

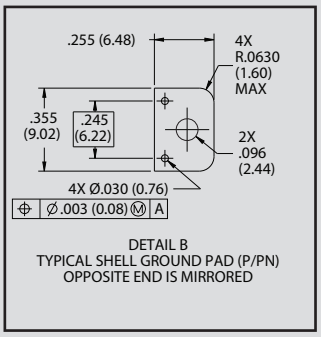


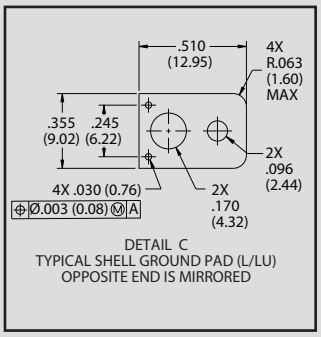
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

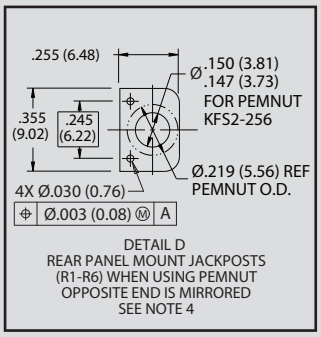


REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)









NOTES

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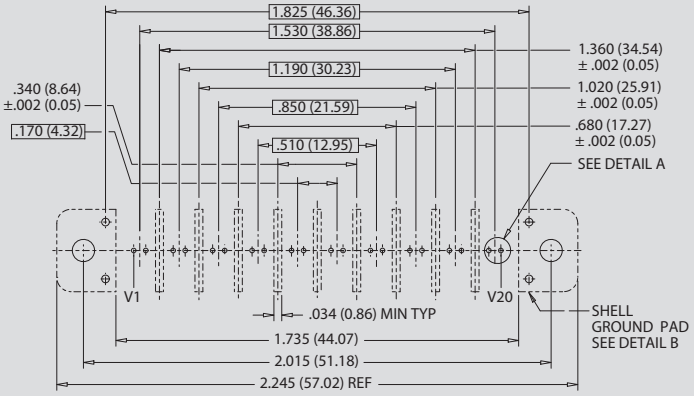
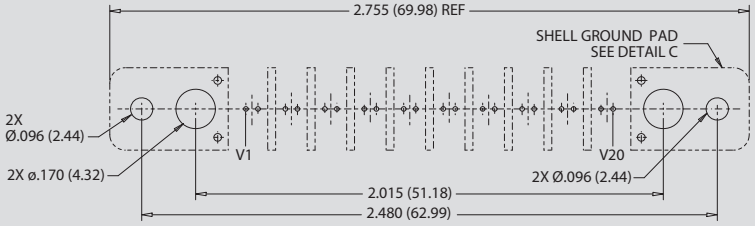
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

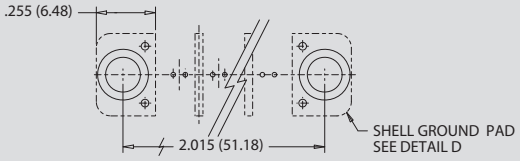
Plug Layout 10-0



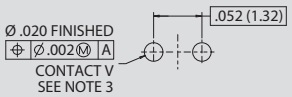
JACKPOST HARDWARE (PN)



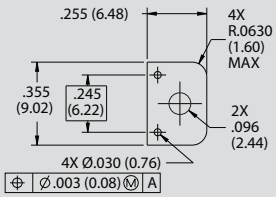
JACKSCREW HARDWARE (L/LU)



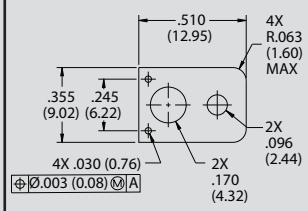
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



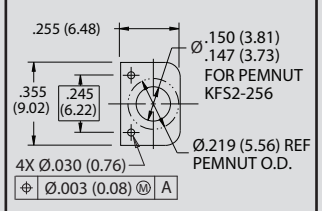
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.
4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

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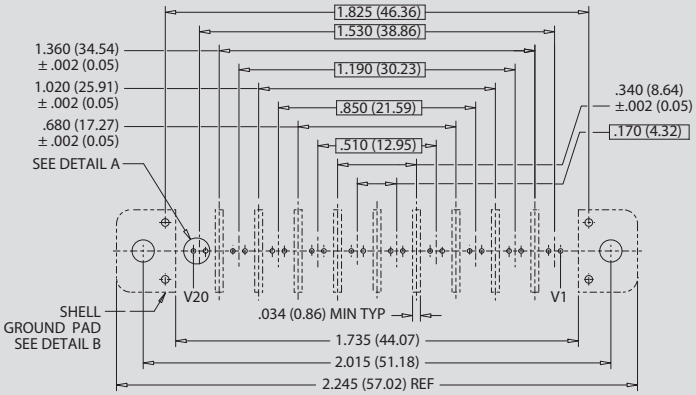
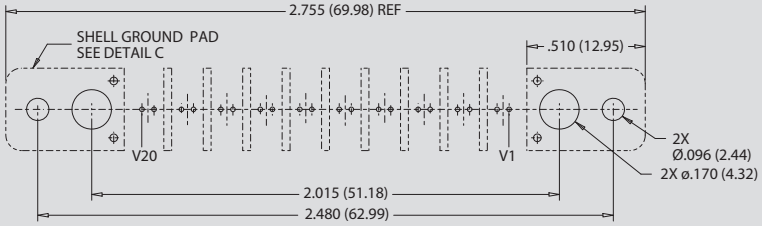
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

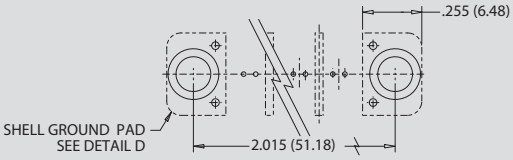
Receptacle Layout 10-0



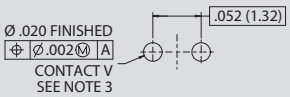
JACKPOST HARDWARE (PN)



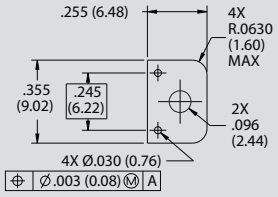
JACKSCREW HARDWARE (L/LU)



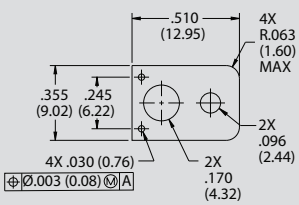
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



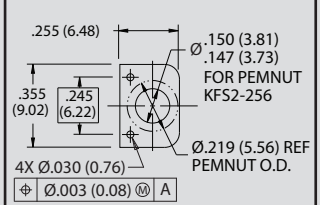
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
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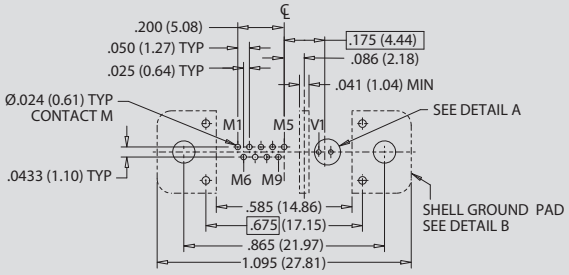
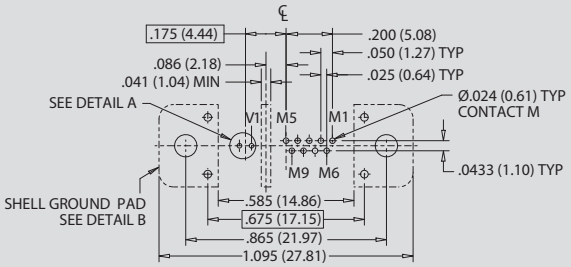
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

Plug Layout 1-9

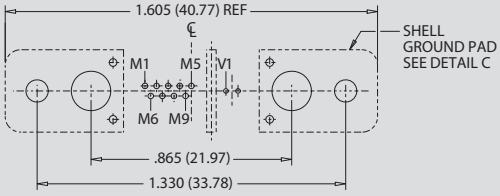


JACKPOST HARDWARE (PN)

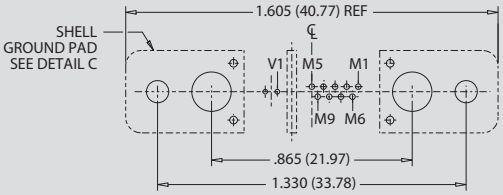
Receptacle Layout 1-9



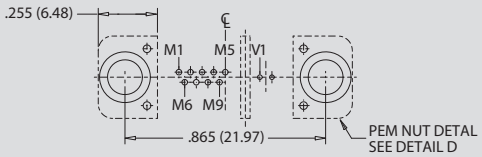
JACKPOST HARDWARE (PN)



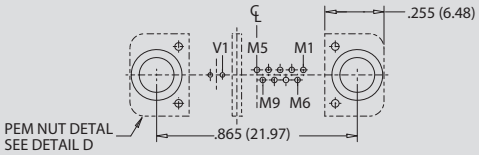
JACKSCREW HARDWARE (L/LU)



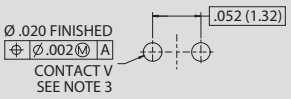
JACKSCREW HARDWARE (L/LU)



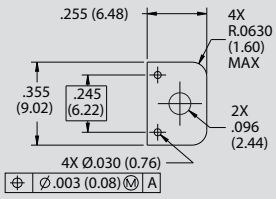
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



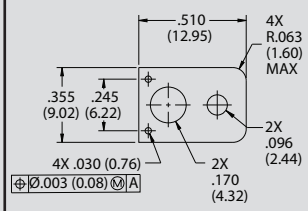
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



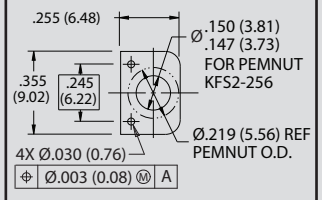
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
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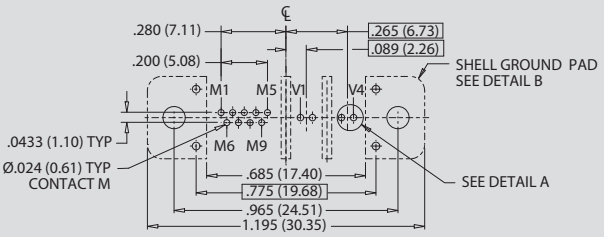
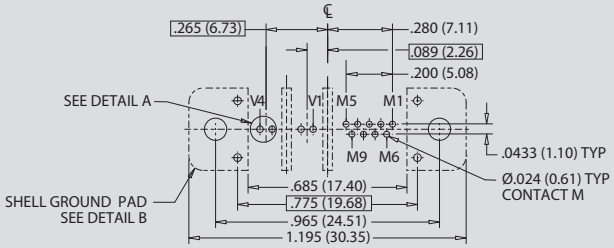
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

Plug Layout 2-9

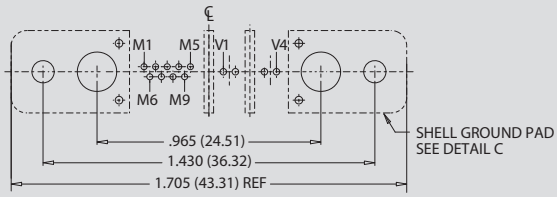


JACKPOST HARDWARE (PN)

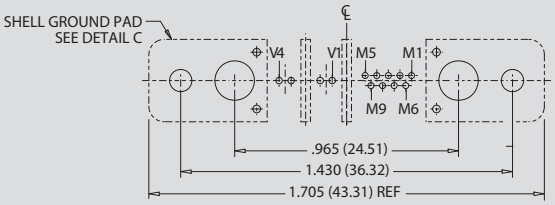
Receptacle Layout 2-9



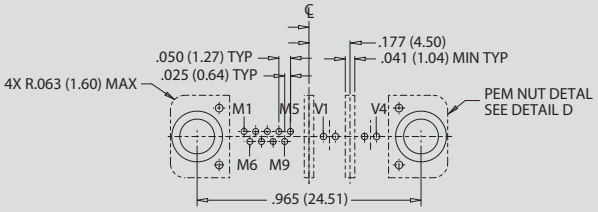
JACKPOST HARDWARE (PN)



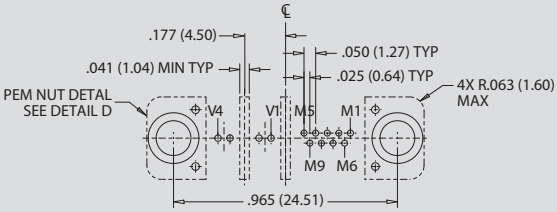
JACKSCREW HARDWARE (L/LU)



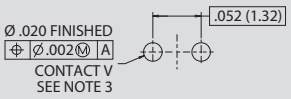
JACKSCREW HARDWARE (L/LU)



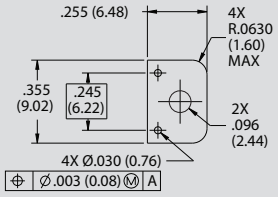
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



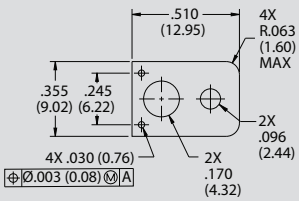
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



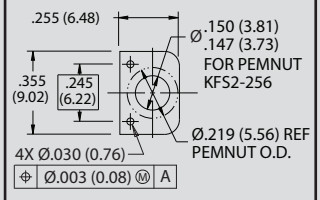
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
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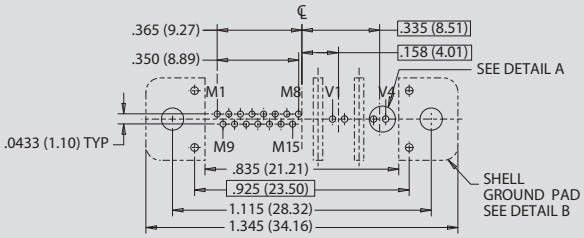
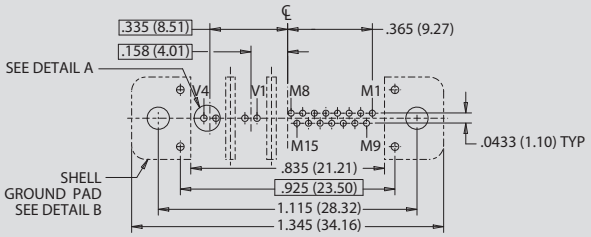
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

Plug Layout 2-15

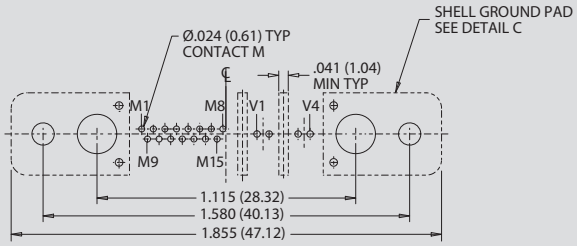


JACKPOST HARDWARE (PN)

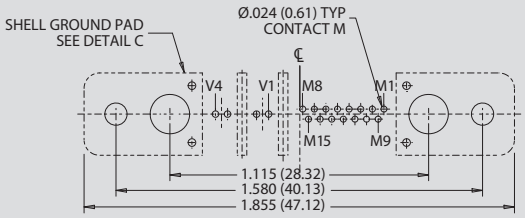
Receptacle Layout 2-15



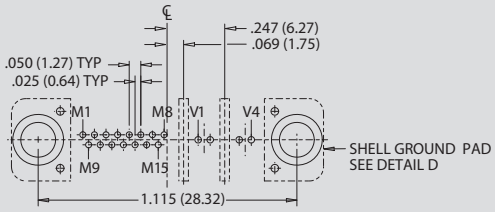
JACKPOST HARDWARE (PN)



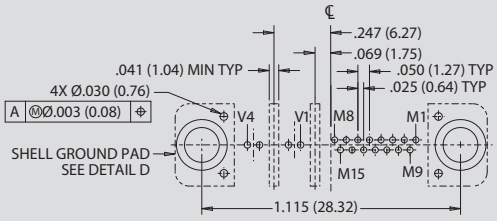
JACKSCREW HARDWARE (L/LU)



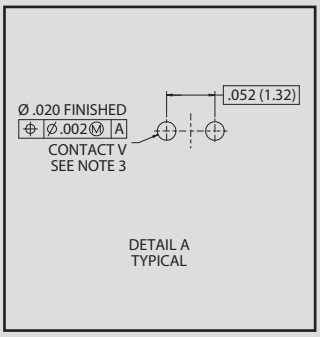
JACKSCREW HARDWARE (L/LU)

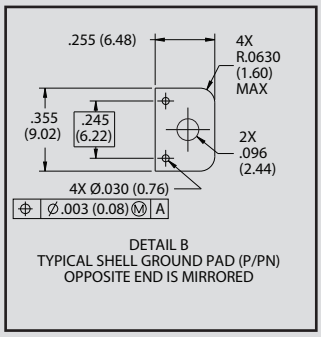


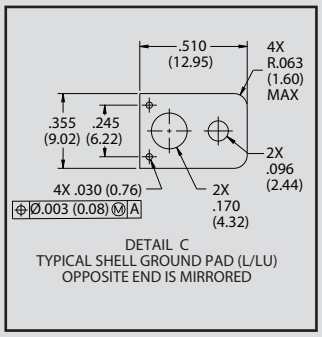
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

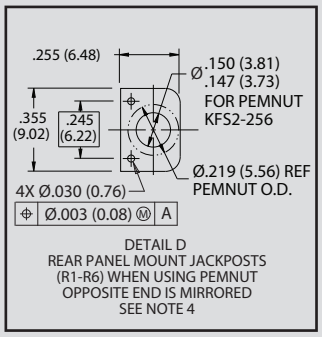


REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)









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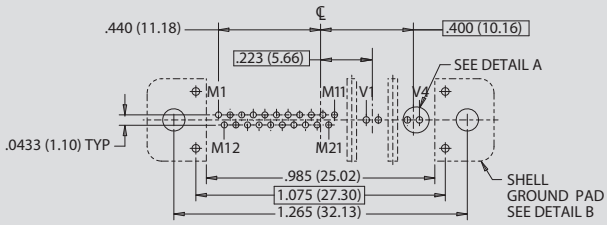
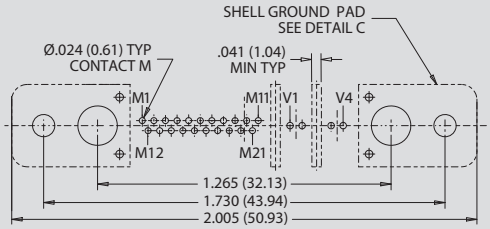
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

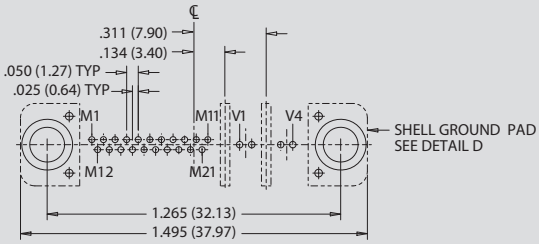
Plug Layout 2-21



JACKPOST HARDWARE (PN)

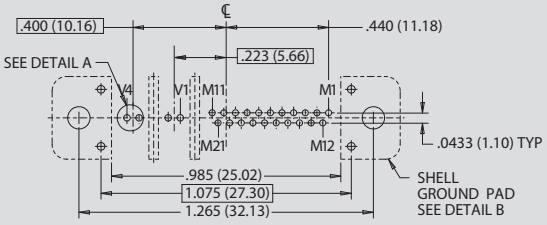


JACKSCREW HARDWARE (L/LU)

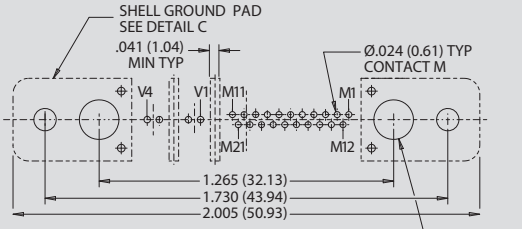


REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

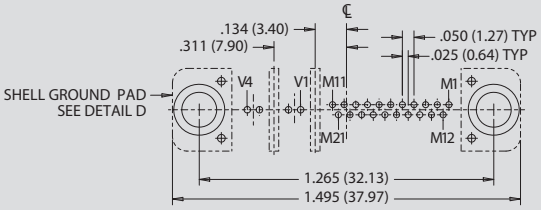
Receptacle Layout 2-21



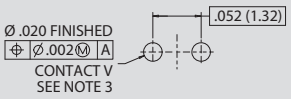
JACKPOST HARDWARE (PN)



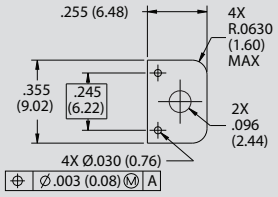
JACKSCREW HARDWARE (L/LU)



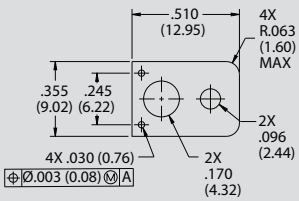
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



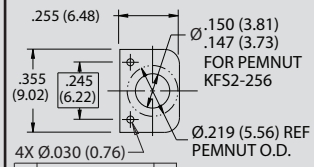
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.
4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

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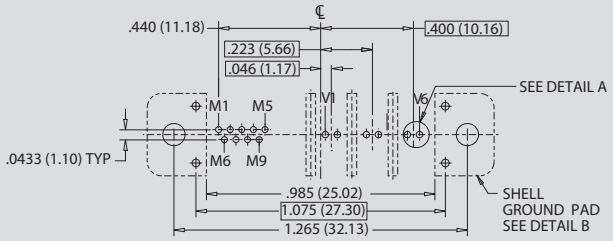
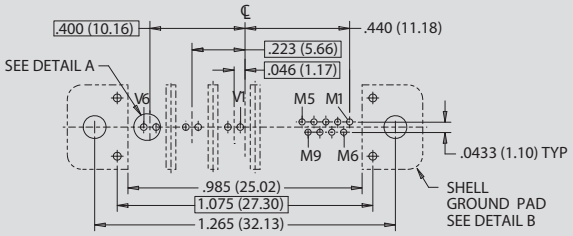
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

Plug Layout 3-9

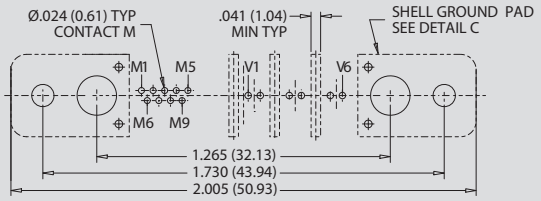


JACKPOST HARDWARE (PN)

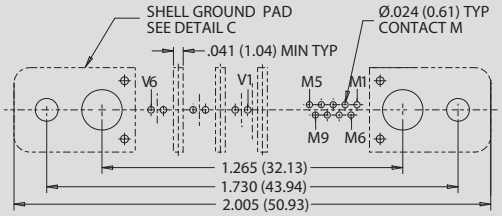
Receptacle Layout 3-9



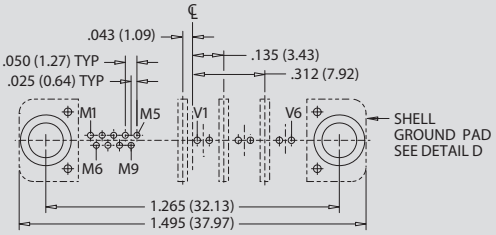
JACKPOST HARDWARE (PN)



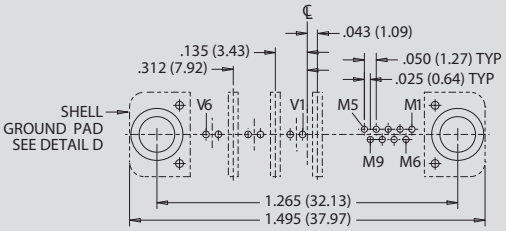
JACKSCREW HARDWARE (L/LU)



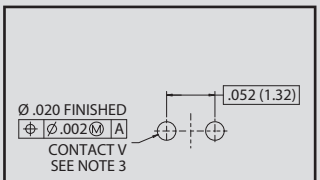
JACKSCREW HARDWARE (L/LU)



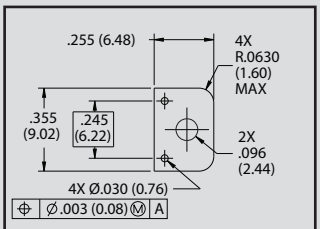
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



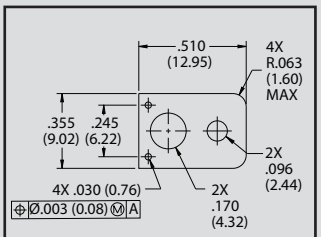
REAR PANEL MOUNT JACKPOSTS



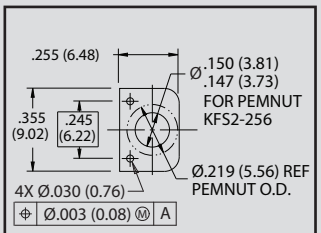
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



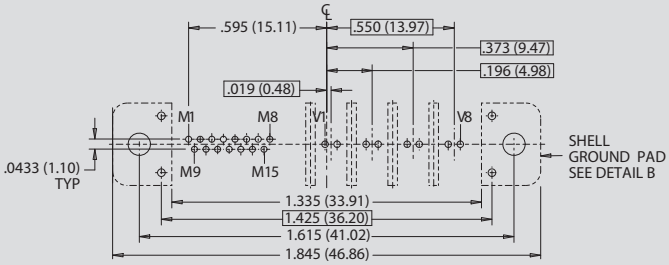
DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

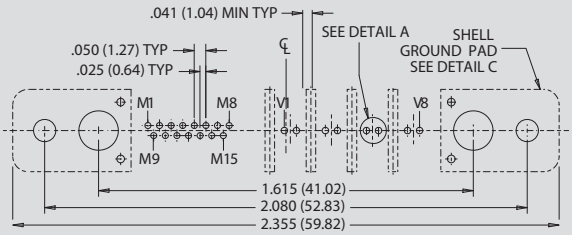
1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.
4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

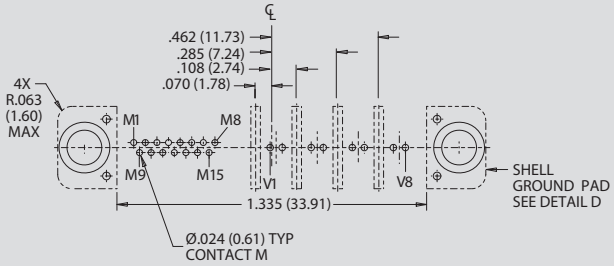
Plug Layout 4-15



JACKPOST HARDWARE (PN)

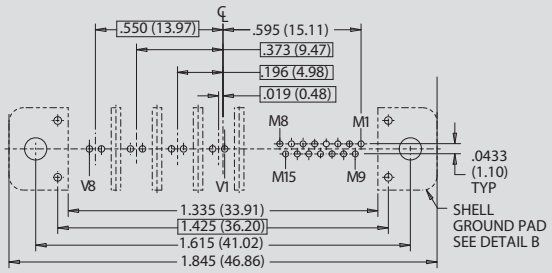


JACKSCREW HARDWARE (L/LU)

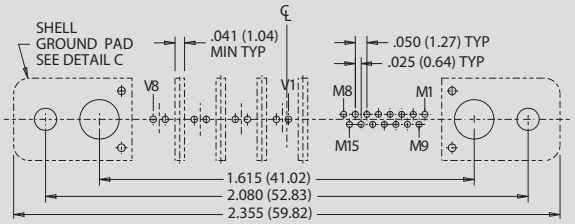


REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

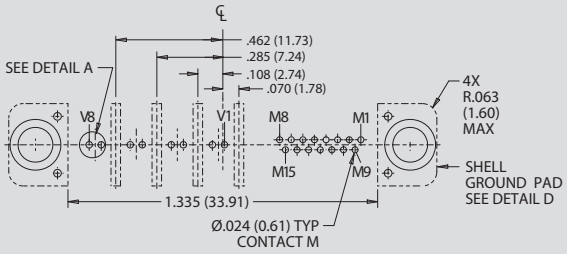
Receptacle Layout 4-15



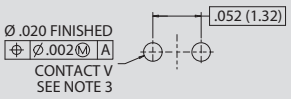
JACKPOST HARDWARE (PN)



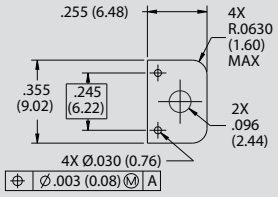
JACKSCREW HARDWARE (L/LU)



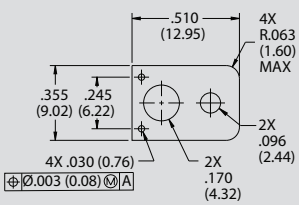
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



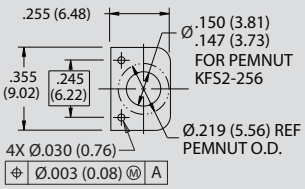
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
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4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

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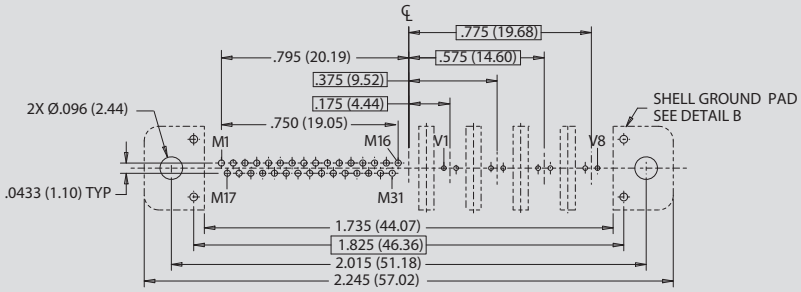
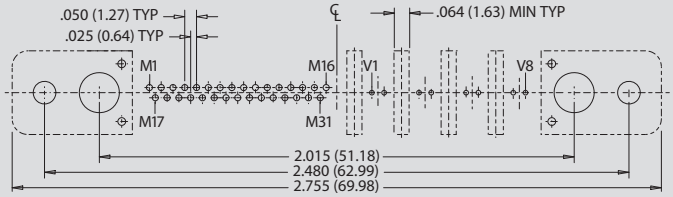
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

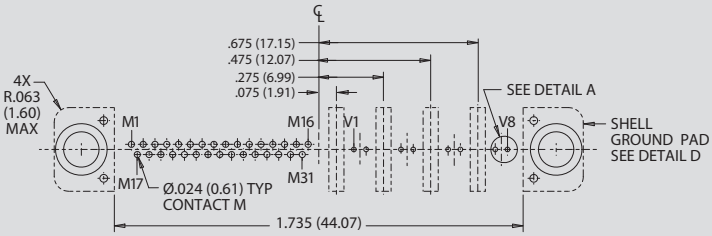
Plug Layout 4-31



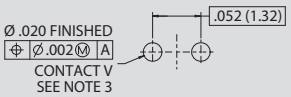
JACKPOST HARDWARE (PN)



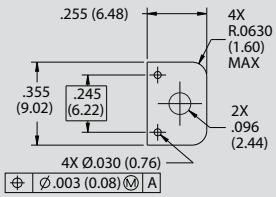
JACKSCREW HARDWARE (L/LU)



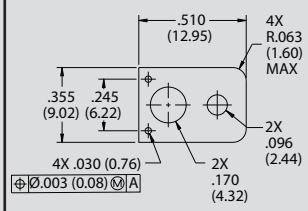
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



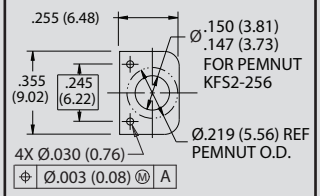
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
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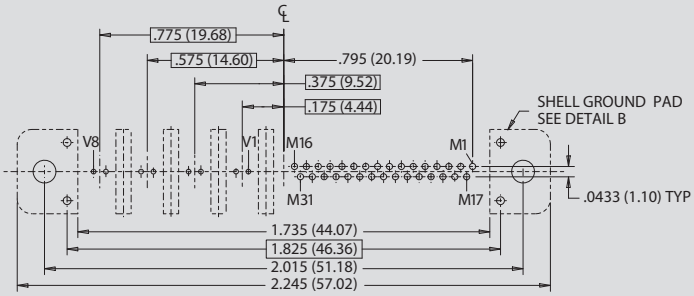
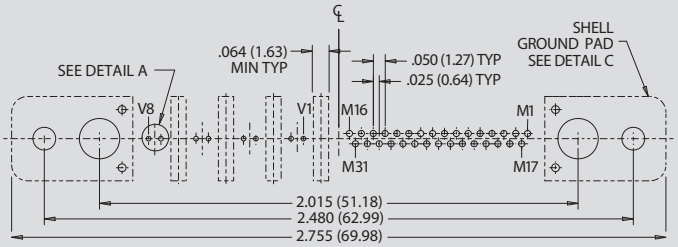
4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

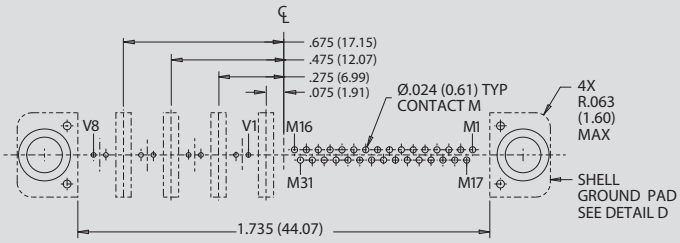
Receptacle Layout 4-31



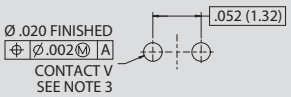
JACKPOST HARDWARE (PN)



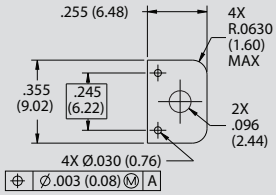
JACKSCREW HARDWARE (L/LU)



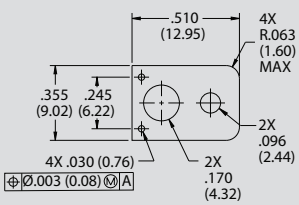
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)



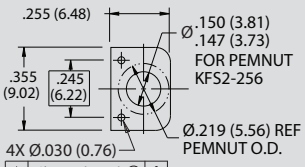
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
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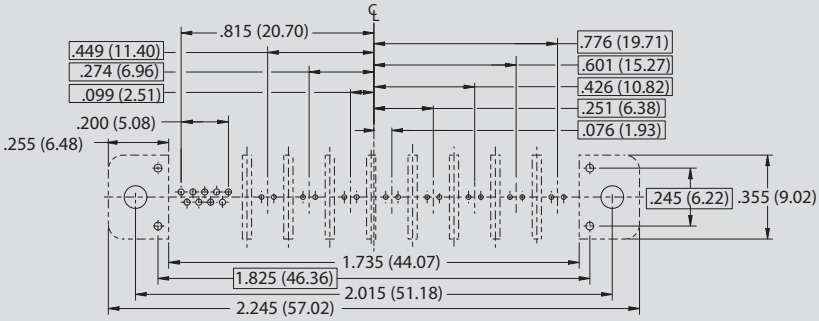
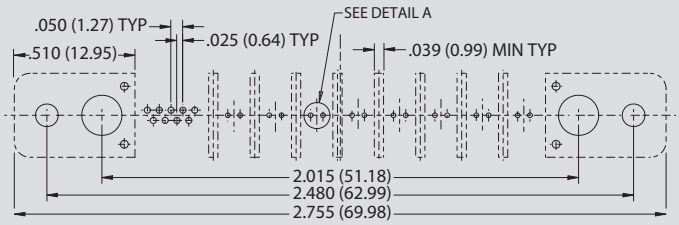
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

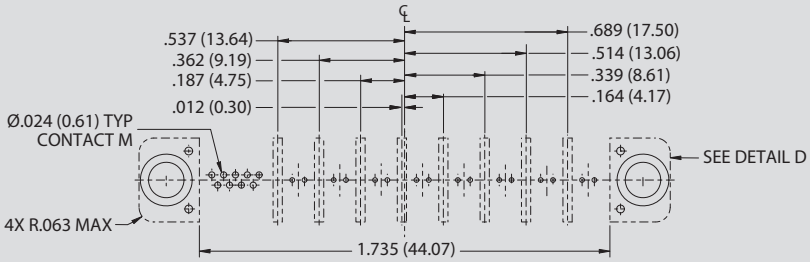
Plug Layout 8-9



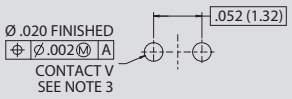
JACKPOST HARDWARE (PN)



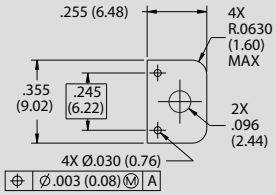
JACKSCREW HARDWARE (L/LU)



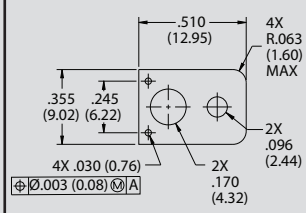
REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)



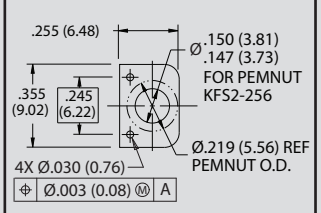
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.
4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

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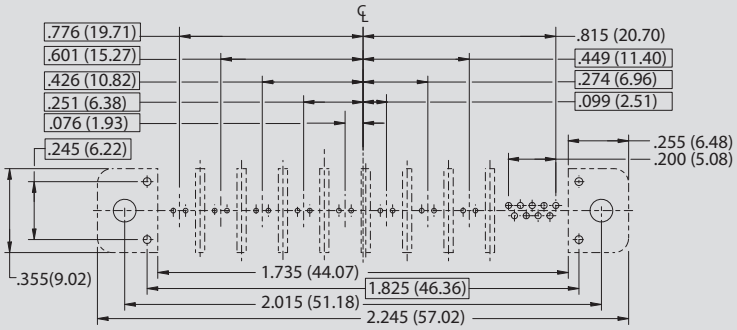
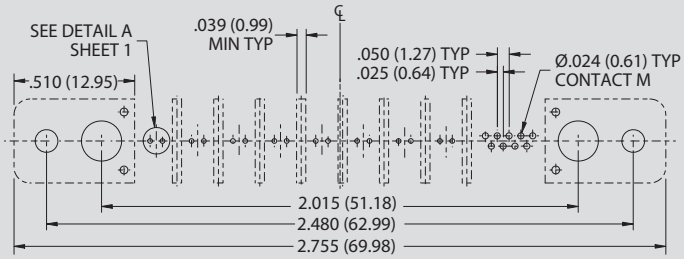
GVLM-1000: GVLM-BS, Straight PCB Connector Footprints, VersaLink PCB Layout

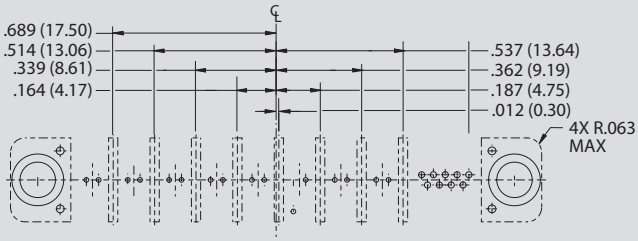
Receptacle Layout 8-9



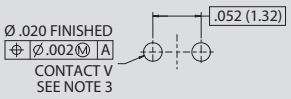
JACKPOST HARDWARE (PN)



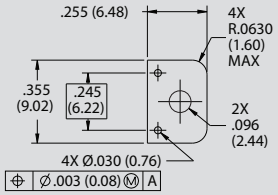
JACKSCREW HARDWARE (L/LU)



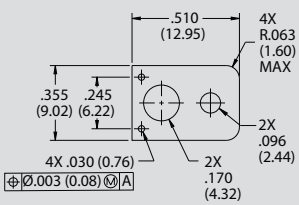
REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)



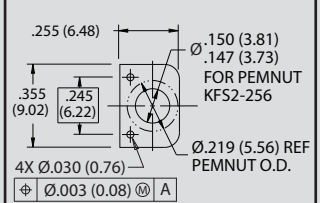
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED



DETAIL C
TYPICAL SHELL GROUND PAD (L/LU)
OPPOSITE END IS MIRRORED



DETAIL D
REAR PANEL MOUNT JACKPOSTS
(R1-R6) WHEN USING PEMNUT
OPPOSITE END IS MIRRORED
SEE NOTE 4

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.
4. PEM nuts are the recommended solution for rear panel mount hardware. When using loose nuts to secure to panel, use the same footprint as the "P" hardware option shown in Detail B.

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M83513 Micro-D VersaLink™ Connectors

GVLM-BR Right-Angle PCB Connectors

MATERIALS AND FINISHES

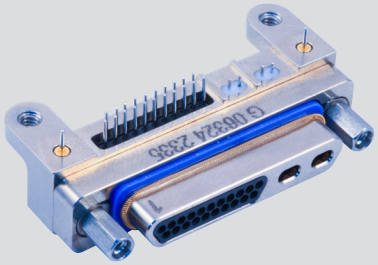
- Connector shell: aluminum alloy 6061
- Insulator (v): rigid dielectric
- Insulator (m): liquid crystal polymer (LCP) or polyphenylene sulfide (PPS)
- Flange seal: fluorosilicone rubber, blue
- Pin contact: copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating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

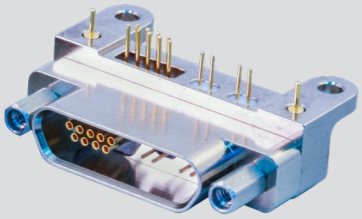
PERFORMANCE SPECIFICATIONS

- 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

1. Refer to GHS4-M-1000 for insert arrangement details on page 94.
2. Refer to GVLM-1001 for GVLM-BR PCB footprints on page 123.
3. Recommended mating dimensions must be maintained when no hardware is used, see page 95.
4. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
5. Hardware always required to ensure connector pair is fully mated when installed.
6. PC tails are solder-dipped in 60/40 tin-lead solder.
7. Refer to 500-154 for protective cover on page 164.



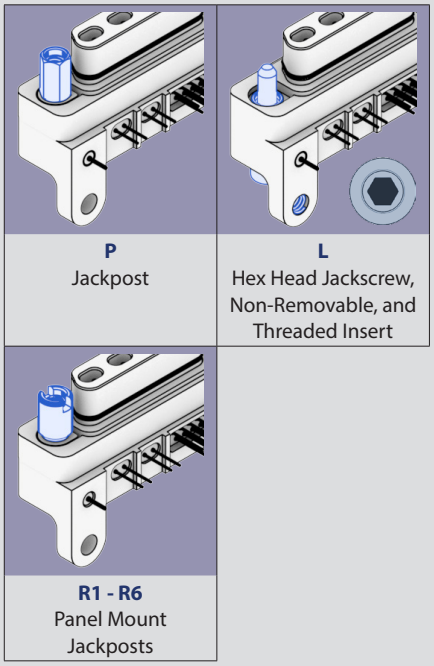


PART NUMBER DEVELOPMENT

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/-.000)

HARDWARE



P
Jackpost

L
Hex Head Jackscrew, Non-Removable, and Threaded Insert

R1 - R6
Panel Mount Jackposts

INSERT ARRANGEMENTS

Insert Arrangements	No. of Contacts VersaLink (V)	No. of Contacts 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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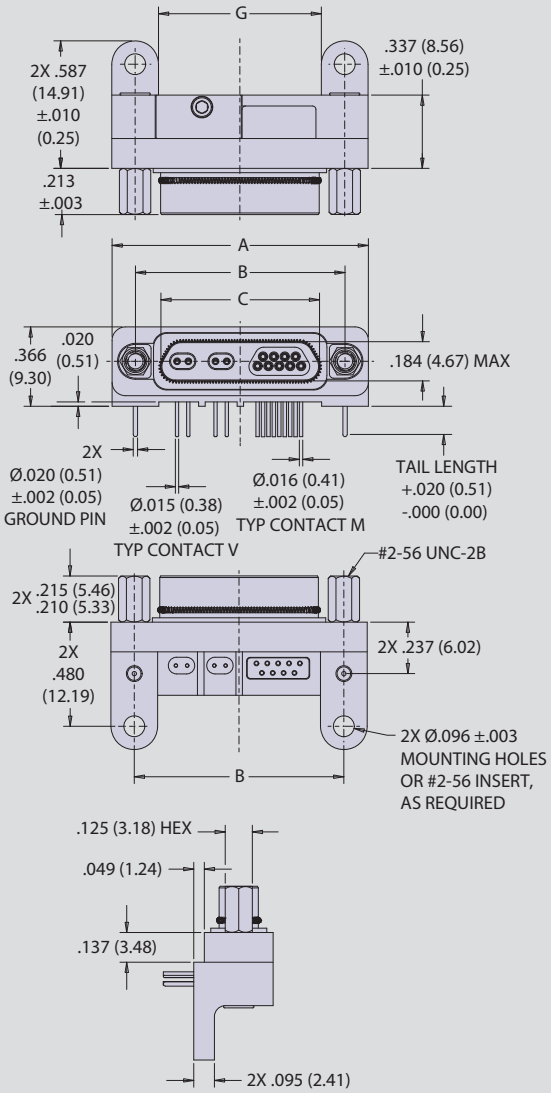
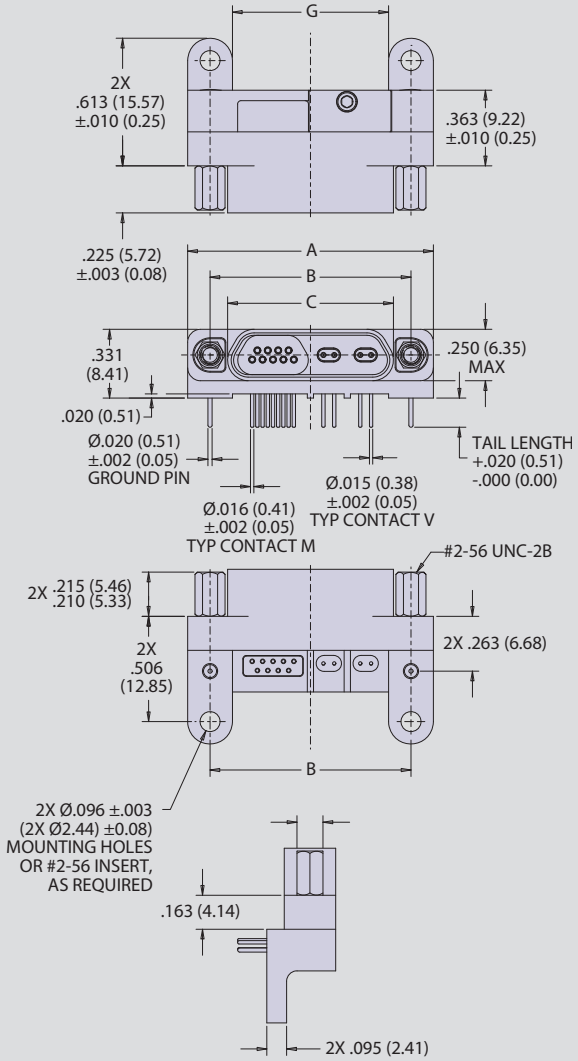
GVLM-BR Right-Angle PCB Connectors

GVLM PCB RIGHT ANGLE PLUG CONNECTOR



GVLM PCB RIGHT ANGLE RECEPTACLE CONNECTOR



PLUG DIMENSIONS				
LAYOUT	A MAX	B	C MAX	G
1-0P	0.785 (19.94)	0.565 (14.35)	0.333 (8.46)	0.350 (8.89)
2-0P	0.935 (23.75)	0.715 (18.16)	0.483 (12.27)	0.500 (12.70)
1-9P	1.085 (27.56)	0.865 (21.97)	0.633 (16.08)	0.650 (16.51)
2-9P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.750 (19.05)
4-0P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.750 (19.05)
2-15P	1.335 (33.91)	1.115 (28.32)	0.833 (21.16)	0.900 (22.86)
2-21P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	1.050 (26.67)
3-9P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	1.050 (26.67)
4-15P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	1.400 (35.56)
4-31P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	1.800 (45.72)
8-9P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	1.800 (45.72)
10-0P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	1.800 (45.72)

RECEPTACLE DIMENSIONS				
LAYOUT	A MAX	B	C MAX	G
1-0S	0.785 (19.94)	0.565 (14.35)	0.400 (10.16)	0.350 (8.89)
2-0S	0.935 (23.75)	0.715 (18.16)	0.551 (14.00)	0.500 (12.70)
1-9S	1.085 (27.56)	0.865 (21.97)	0.701 (17.81)	0.650 (16.51)
2-9S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.750 (19.05)
4-0S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.750 (19.05)
2-15S	1.335 (33.91)	1.115 (28.32)	0.951 (24.16)	0.900 (22.86)
2-21S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	1.050 (26.67)
3-9S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	1.050 (26.67)
4-15S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	1.400 (35.56)
4-31S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	1.800 (45.72)
8-9S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	1.800 (45.72)
10-0S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	1.800 (45.72)

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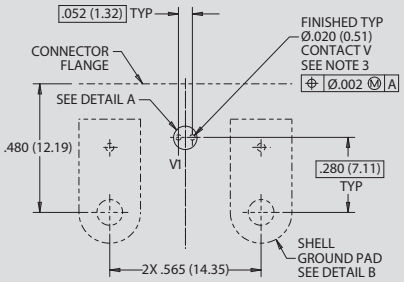
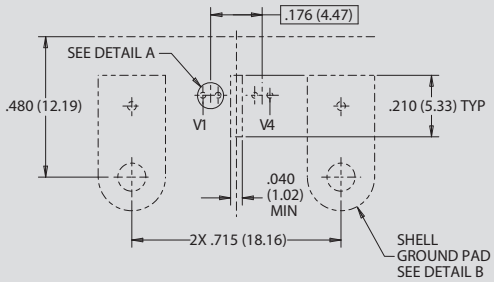
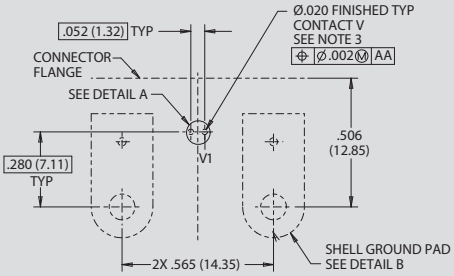
GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints



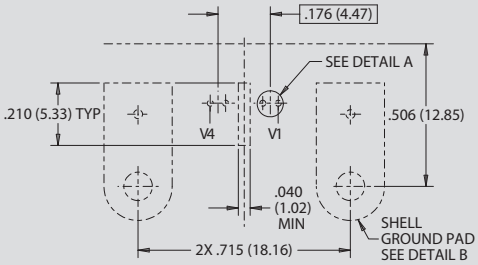
Plug Layout 1-0



Plug Layout 2-0



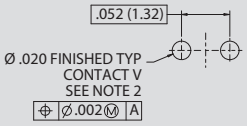
Receptacle Layout 1-0



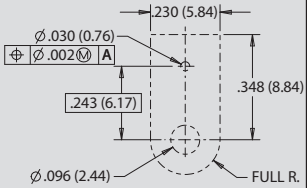
Receptacle Layout 2-0

NOTES

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



DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD

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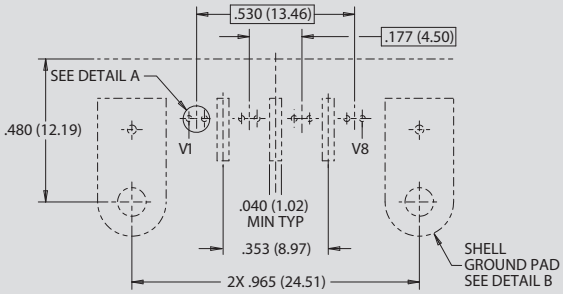
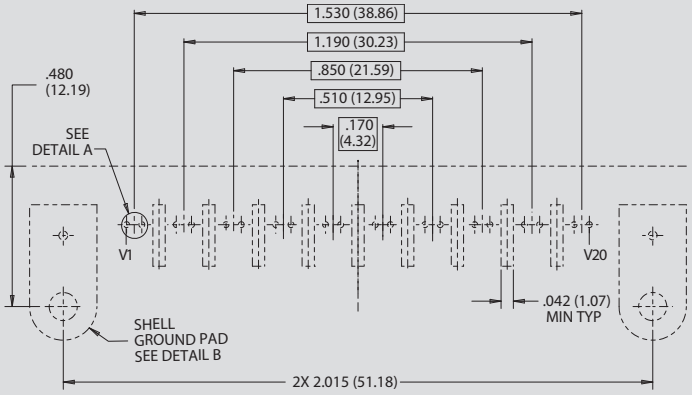
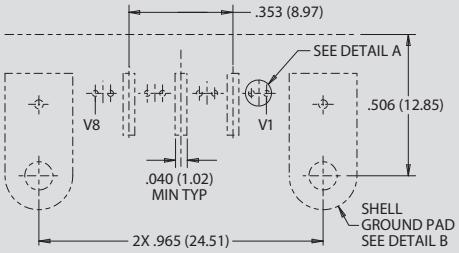
GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints



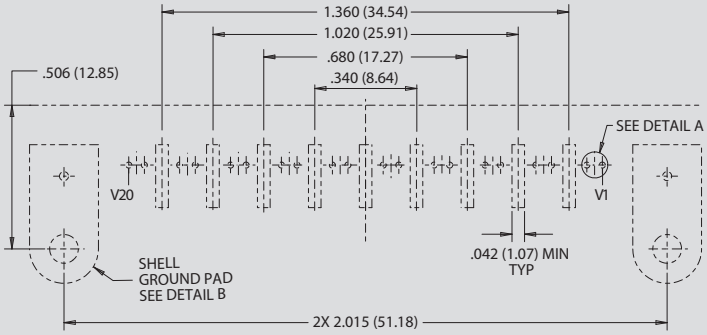
Plug Layout 4-0



Plug Layout 10-0



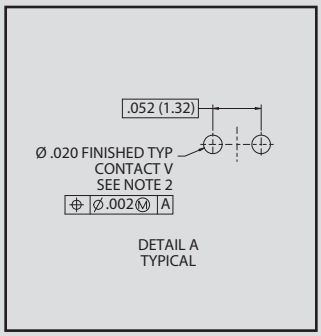
Receptacle Layout 4-0

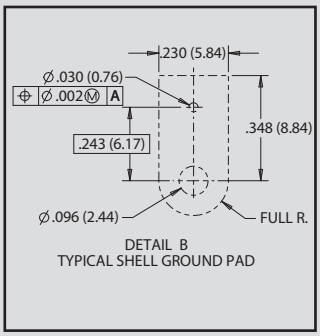


Receptacle Layout 10-0

NOTES

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





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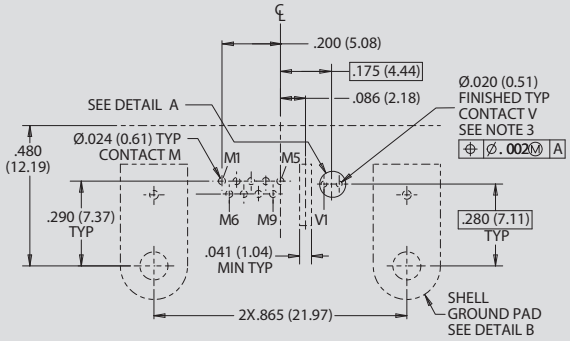
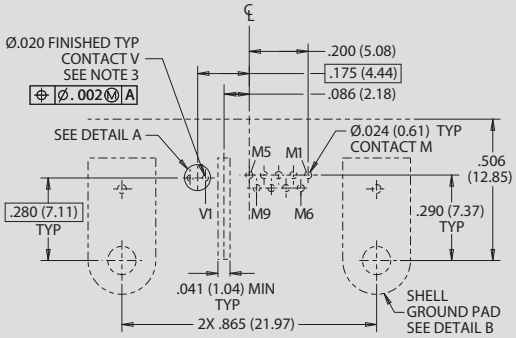
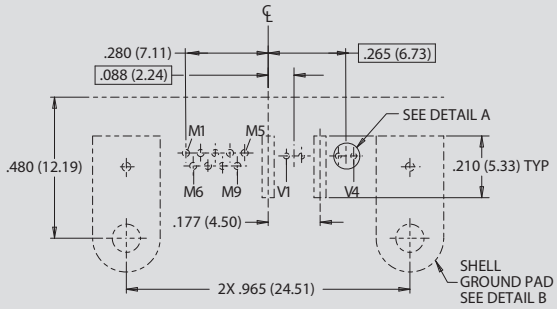
GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints



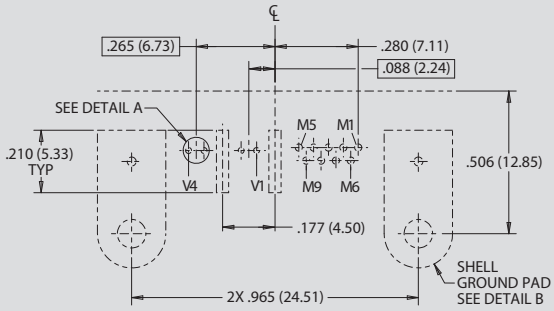
Plug Layout 1-9



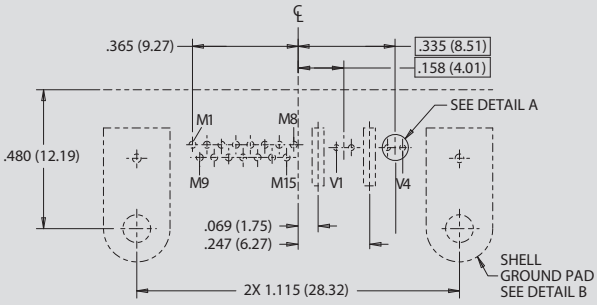
Receptacle Layout 1-9



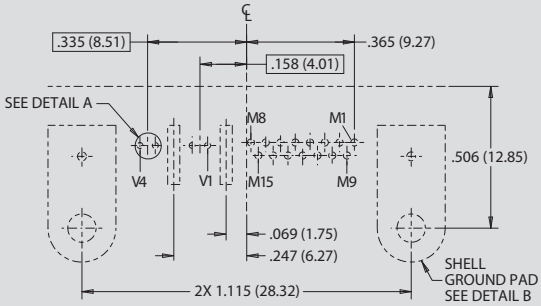
Plug Layout 2-9



Receptacle Layout 2-9



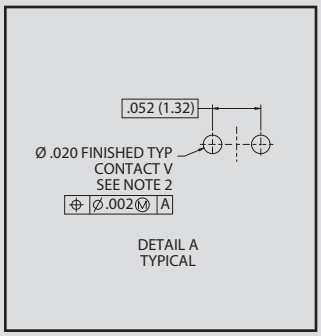
Plug Layout 2-15

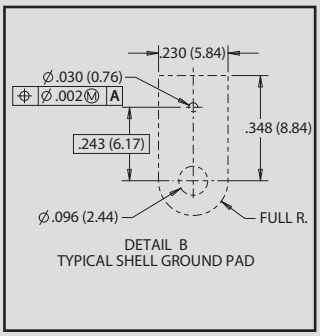


Receptacle Layout 2-15

NOTES

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





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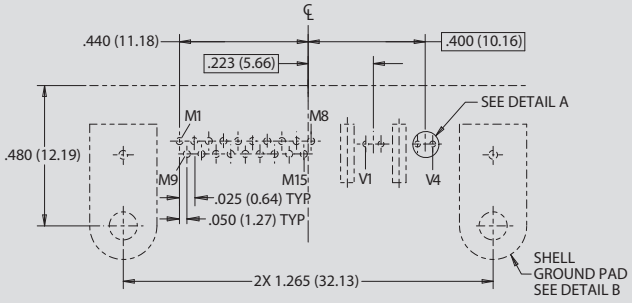
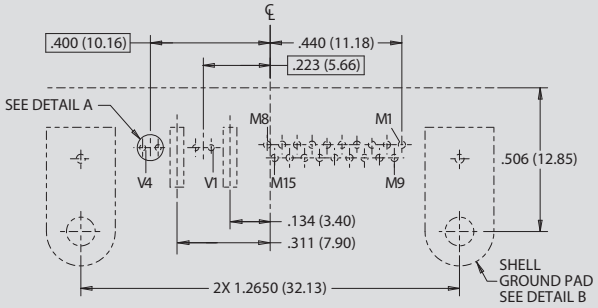
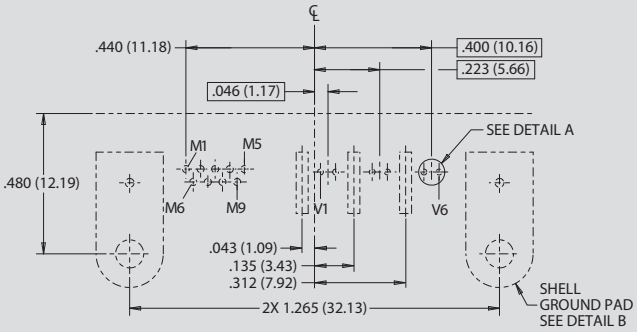
GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints



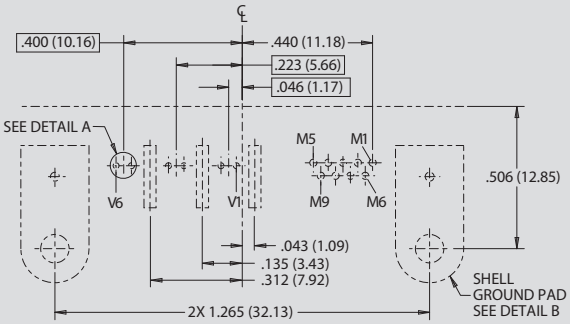
Plug Layout 2-21



Receptacle Layout 2-21



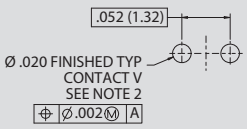
Plug Layout 3-9



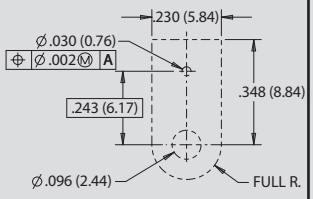
Receptacle Layout 3-9

NOTES

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



DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD

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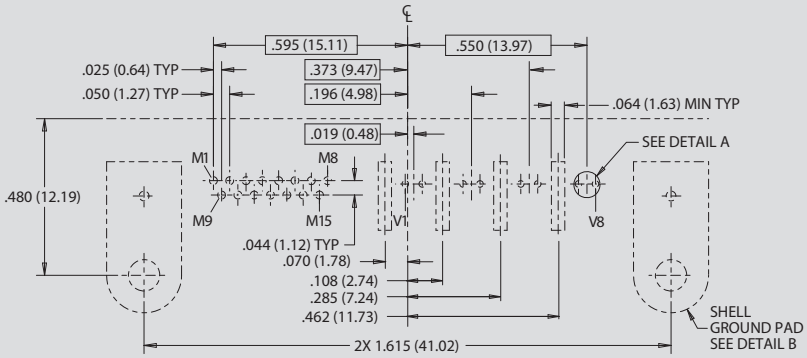
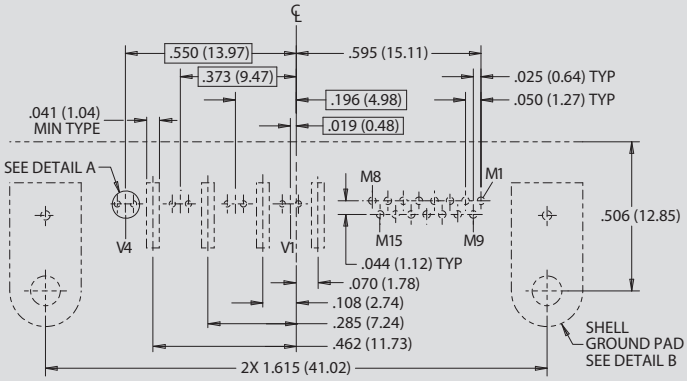
GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints



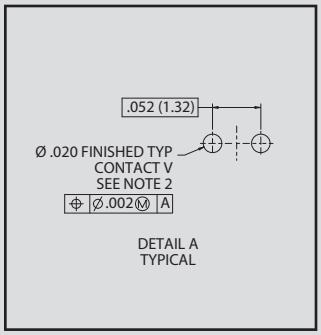
Plug Layout 4-15

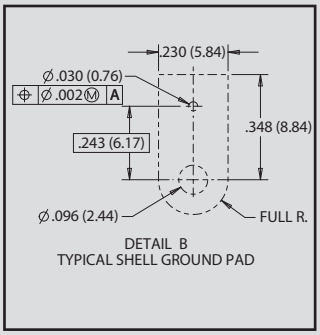


Receptacle Layout 4-15

NOTES

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





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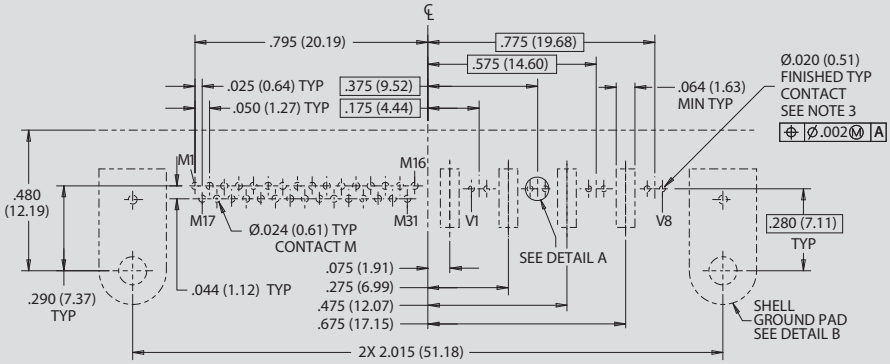
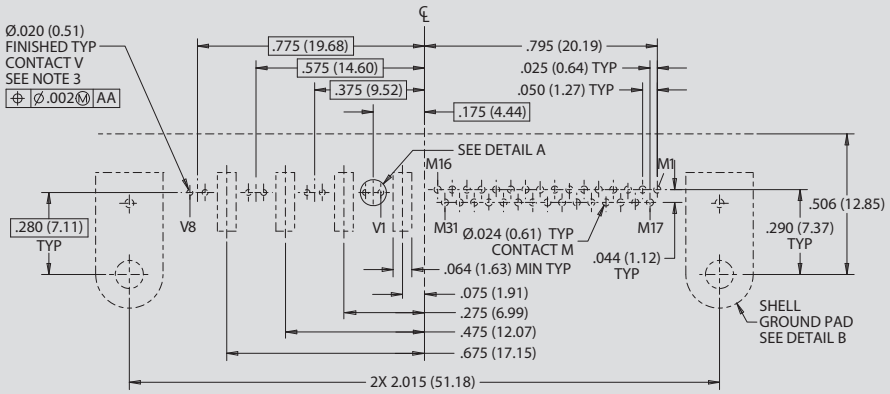
GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints



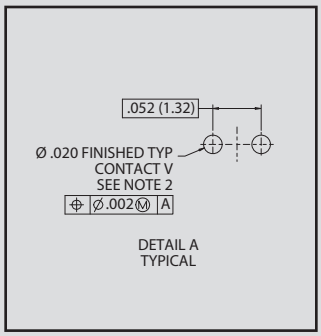
Plug Layout 4-31

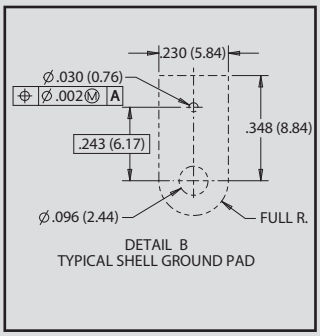


Receptacle Layout 4-31

NOTES

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





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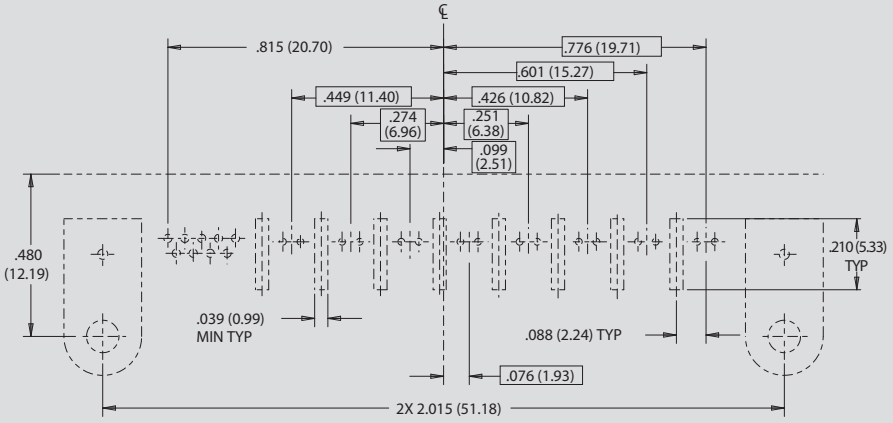
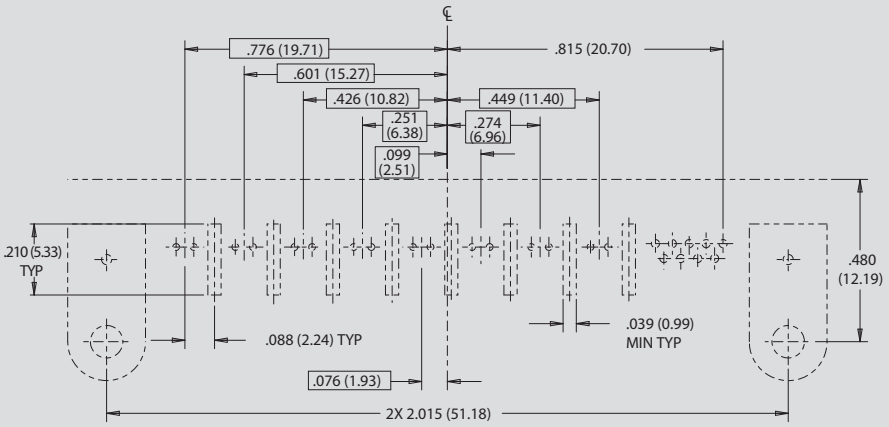
GVLM-1001: GVLM-BR PCB VersaLink Right-Angle Connector PCB Footprints



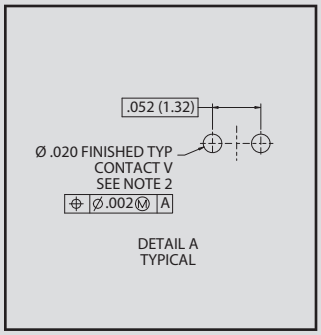
Plug Layout 8-9

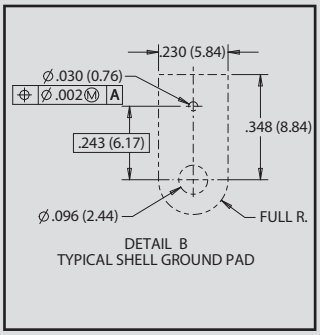


Receptacle Layout 8-9

NOTES

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





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M83513 Micro-D VersaLink™ Connectors

GHS4-RPM, Pre-Wired Rear Panel Mount Connector

MATERIALS AND FINISHES

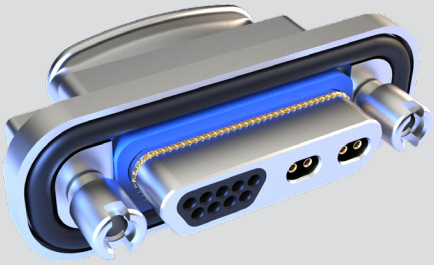
- Connector shell: aluminum alloy 6061
- Insulator (v): rigid dielectric
- Insulator (m): liquid crystal polymer (LCP) or polyphenylene sulfide (PPS)
- Flange seal: fluorosilicone rubber, blue
- Pin contact: copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating
- Ground spring: stainless steel, gold plating
- Hardware: 300 series stainless steel, passivated
- Encapsulant: epoxy resin Hysol EE4215 and Duralco 120

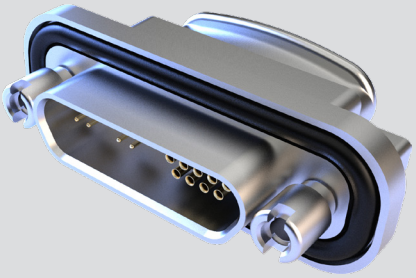
PERFORMANCE SPECIFICATIONS

- Current rating: 3 amp (Micro-D contacts)
- DWV: 600 VAC sea level
- Insulation resistance: 5000 megohms min
- 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

NOTES

1. Refer to GHS4-M-1000 for insert arrangement details on page 94.
2. Refer to GHS4-M-1001 for wire diagrams on page 96.
3. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
4. Omit wire information when contact layout "M" = 0 (e.g. 1-0, 2-0, 4-0, 10-0).
5. Refer to 500-154 for protective cover on page 164.
6. Glenair VersaLink Micro-D pre-wired connectors are only available factory terminated.
7. Hardware always required to ensure connector pair is fully mated when installed.





PART NUMBER DEVELOPMENT

Sample Part Number	GHS4-RPM	2	L-	2-9	P	C	6	J	1	-18	R3	N
Series	**GHS4-RPM** = Pre-Wired 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** = Pin (Single End Plug) **S** = Socket (Single End Receptacle)							
VersaLink Cable Type						**B** = 963-068-26 **C** = 963-069-26						
Discrete Wire Gage (AWG)[4]							**4** = #24 **6** = #26 **8** = #28 **0** = #30 (J Wire Type Only)					
Discrete Wire Type[4]								**K** = M22759/11 600 VRMS Teflon (TFE) **J** = M22759/33 600 VRMS Modified Cross-Linked Tefzel (ETFE) **E** = NEMA HP3-EB 600 VRMS Type E M16878/4 (TFE)				
Discrete Wire Color[4]									**1** = White **5** = Color-coded Stripes Per MIL-STD-681 **7** = Ten Color Repeating			
Wire Length Inches										**18** = Wire Length in inches. "18" specifies 18 inches. 6 inch minimum		
Rear Panel Mount Hardware[5]											**R1** = .032 panel **R2** = .047 panel **R3** = .062 panel **R4** = .093 panel **R5** = .125 panel **R6** = .080 panel (see mounting hardware table)	
O-Ring												**C** = Conductive **N** = Non-conductive (Nitrile) **F** = Fluorosilicone

MOUNTING HARDWARE

R1-R6
Rear Panel Mount Jackposts

INSERT ARRANGEMENTS

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

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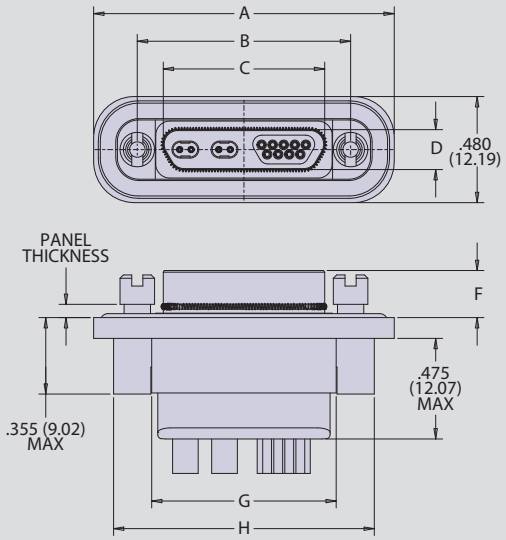
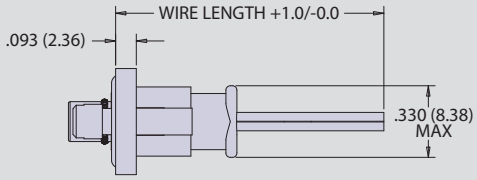
GHS4-RPM, Pre-Wired Rear Panel Mount Connector

GHS4-RPM PRE-WIRED REAR PANEL MOUNT CONNECTOR





CABLE ASSEMBLY DIMENSIONS

LAYOUT	A	B±.003	C MAX	D MAX	F±.003	G MAX	H MAX
1-0RP	0.960 (24.38)	0.565 (14.35)	0.333 (8.46)	0.184 (4.67)	0.213 (5.41)	0.445 (11.30)	0.790 (20.07)
1-0RS	0.960 (24.38)	0.565 (14.35)	0.400 (10.16)	0.250 (6.35)	0.225 (5.72)	0.445 (11.30)	0.790 (20.07)
2-0RP	1.110 (28.19)	0.715 (18.16)	0.483 (12.27)	0.184 (4.67)	0.213 (5.41)	0.595 (15.11)	0.940 (23.88)
2-0RS	1.110 (28.19)	0.715 (18.16)	0.551 (14.00)	0.250 (6.35)	0.225 (5.72)	0.595 (15.11)	0.940 (23.88)
1-9RP	1.260 (32.00)	0.865 (21.97)	0.633 (16.08)	0.184 (4.67)	0.213 (5.41)	0.745 (18.92)	1.090 (27.69)
1-9RS	1.260 (32.00)	0.865 (21.97)	0.701 (17.81)	0.250 (6.35)	0.225 (5.72)	0.745 (18.92)	1.090 (27.69)
2-9RP	1.360 (34.54)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.213 (5.41)	0.845 (21.46)	1.190 (30.23)
2-9RS	1.360 (34.54)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.225 (5.72)	0.845 (21.46)	1.190 (30.23)
4-0RP	1.360 (34.54)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.213 (5.41)	0.845 (21.46)	1.190 (30.23)
4-0RS	1.360 (34.54)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.225 (5.72)	0.845 (21.46)	1.190 (30.23)
2-15RP	1.510 (38.35)	1.115 (28.32)	0.833 (21.16)	0.184 (4.67)	0.213 (5.41)	0.995 (25.27)	1.340 (34.04)
2-15RS	1.510 (38.35)	1.115 (28.32)	0.951 (24.16)	0.250 (6.35)	0.225 (5.72)	0.995 (25.27)	1.340 (34.04)
3-9RP	1.660 (42.16)	1.265 (32.13)	1.033 (26.24)	0.184 (4.67)	0.213 (5.41)	1.145 (29.08)	1.490 (37.85)
3-9RS	1.660 (42.16)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	0.225 (5.72)	1.145 (29.08)	1.490 (37.85)
4-15RP	2.010 (51.05)	1.615 (41.02)	1.384 (35.15)	0.184 (4.67)	0.213 (5.41)	1.495 (37.97)	1.840 (46.74)
4-15RS	2.010 (51.05)	1.615 (41.02)	1.450 (36.83)	0.250 (6.35)	0.225 (5.72)	1.495 (37.97)	1.840 (46.74)
4-31RP	2.410 (61.21)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)	2.240 (56.90)
4-31RS	2.410 (61.21)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)	2.240 (56.90)
8-9RP	2.410 (61.21)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)	2.240 (56.90)
8-9RS	2.410 (61.21)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)	2.240 (56.90)
10-0RP	2.410 (61.21)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)	2.240 (56.90)
10-0RS	2.410 (61.21)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)	2.240 (56.90)

INSERT ARRANGEMENTS

Insert	No. of Contacts VersaLink (V)	No. of Contacts 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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M83513 Micro-D VersaLink™ Connectors

GVLRPM-BS, Rear Panel Mount, Straight PCB Connectors

PART NUMBER DEVELOPMENT

Sample Part Number	GVLRPM	2	L-	2-9	P	BS	R3	C	-.110

Series	**GVLRPM** = VersaLink Micro-D Rear Panel Mount
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[3]	**P** = Plug **S** = Receptacle
Connector Style	**BS** = Straight Board Mount
Hardware[4, 5]	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 **B** = Threaded Inserts, No Hardware
O-Ring	**C** = Conductive **N** = Non-conductive (Nitrile) **F** = Fluorosilicone
PC Tail Length[6]	**-.080, -.110, -.140** (Length in Inches +.020/-.000)

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
- O-ring: conductive elastomer or non-conductive nitrile rubber, blue
- Pin contact: copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating
- Ground pin: copper alloy, gold plating
- Ground spring: stainless steel, gold plating
- Hardware: 300 series stainless steel, passivated
- Encapsulant: epoxy resin Hysol EE4215

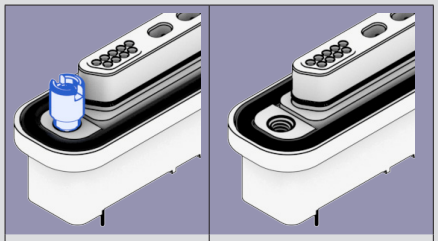
PERFORMANCE SPECIFICATIONS

- 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

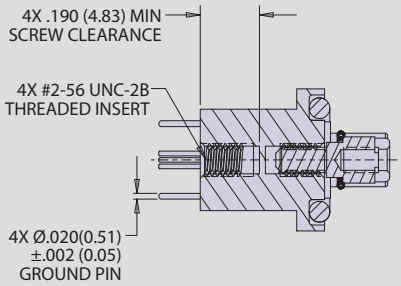
1. Refer to GHS4-M-1000 insert arrangement for insert arrangement details on page 94.
2. Refer to GVLM-1000 for GVLRPM-BS PCB footprints on page 134.
3. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
4. Refer to MIL-DTL-83513 panel cutout details on page 95.
5. Recommended mating dimensions must be maintained when no hardware is used, see page 95.
6. PC tails are solder-dipped in 60/40 tin-lead solder.
7. Refer to 500-154 for protective cover on page 164.

HARDWARE



R1 - R6	B
Rear Panel Mount Jackposts	Threaded Inserts, No Hardware

CONNECTOR CUTAWAY



INSERT ARRANGEMENTS

Insert Arrangements	No. of Contacts VersaLink (V)	No. of Contacts TwistPin Skt (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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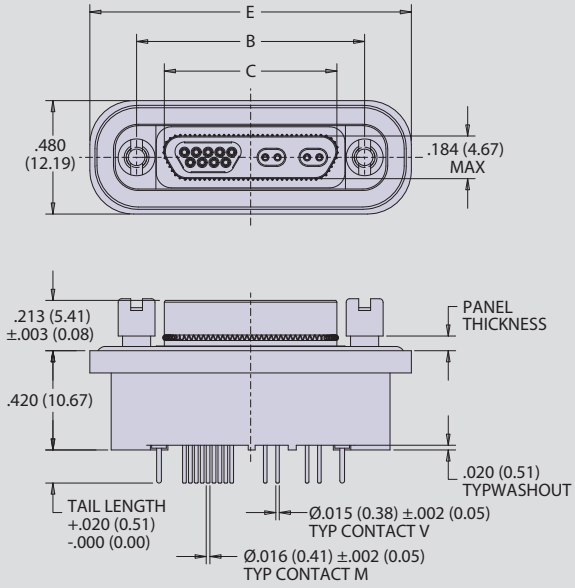
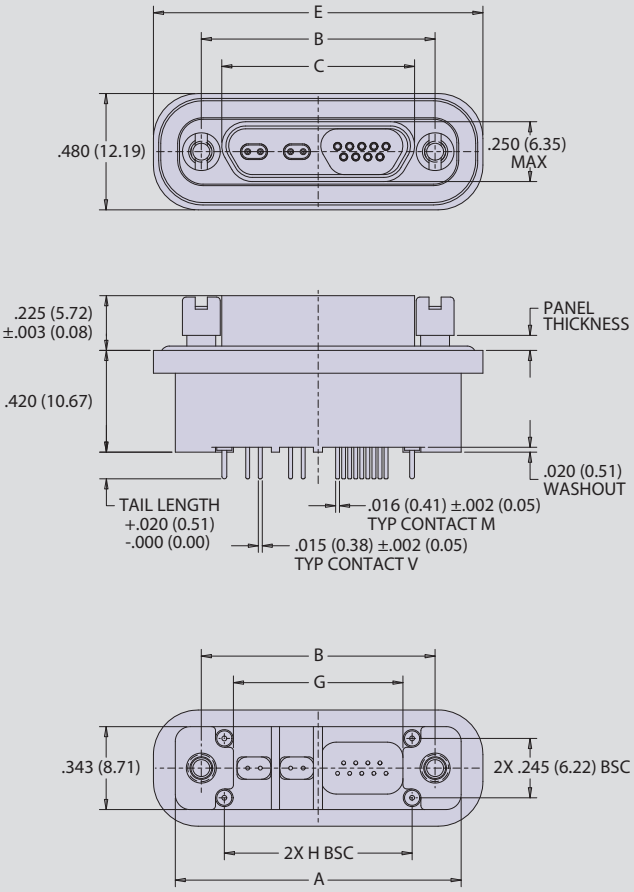
GVLRPM-BS, Rear Panel Mount, Straight PCB Connectors

GVLRPM-BS PCB STRAIGHT PLUG CONNECTOR



GVLRPM-BS PCB STRAIGHT RECEPTACLE CONNECTOR



PLUG DIMENSIONS						
LAYOUT	A MAX	B±.005	C MAX	E MAX	G±.005	H ±.005
1-0P	0.785 (19.94)	0.565 (14.35)	0.333 (8.46)	0.965 (24.51)	0.300 (7.62)	0.375 (9.53)
2-0P	0.935 (23.75)	0.715 (18.16)	0.483 (12.27)	1.115 (28.32)	0.450 (11.43)	0.525 (13.34)
1-9P	1.085 (27.56)	0.865 (21.97)	0.633 (16.08)	1.265 (32.13)	0.600 (15.24)	0.675 (17.15)
2-9P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	1.365 (34.67)	0.700 (17.78)	0.775 (19.69)
4-0P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	1.365 (34.67)	0.700 (17.78)	0.775 (19.69)
2-15P	1.335 (33.91)	1.115 (28.32)	0.833 (21.16)	1.515 (38.48)	0.850 (21.59)	0.925 (23.50)
3-9P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	1.665 (42.29)	1.000 (25.40)	1.075 (27.31)
4-15P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	2.015 (51.18)	1.350 (34.29)	1.425 (36.20)
4-31P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	2.415 (61.34)	1.750 (44.45)	1.825 (46.36)
8-9P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	2.415 (61.34)	1.750 (44.45)	1.825 (46.36)
10-0P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	2.415 (61.34)	1.750 (44.45)	1.825 (46.36)

RECEPTACLE DIMENSIONS						
LAYOUT	A MAX	B±.005	C MAX	E MAX	G±.005	H ±.005
1-0S	0.785 (19.94)	0.565 (14.35)	.400 (10.16)	0.965 (24.51)	0.300 (7.62)	0.375 (9.53)
2-0S	0.935 (23.75)	0.715 (18.16)	.551 (14.00)	1.115 (28.32)	0.450 (11.43)	0.525 (13.34)
1-9S	1.085 (27.56)	0.865 (21.97)	.701 (17.81)	1.265 (32.13)	0.600 (15.24)	0.675 (17.15)
2-9S	1.185 (30.10)	0.965 (24.51)	.801 (20.35)	1.365 (34.67)	0.700 (17.78)	0.775 (19.69)
4-0S	1.185 (30.10)	0.965 (24.51)	.801 (20.35)	1.365 (34.67)	0.700 (17.78)	0.775 (19.69)
2-15S	1.335 (33.91)	1.115 (28.32)	.951 (24.16)	1.515 (38.48)	0.850 (21.59)	0.925 (23.50)
3-9S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	1.665 (42.29)	1.000 (25.40)	1.075 (27.31)
4-15S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	2.015 (51.18)	1.350 (34.29)	1.425 (36.20)
4-31S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	2.415 (61.34)	1.750 (44.45)	1.825 (46.36)
8-9S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	2.415 (61.34)	1.750 (44.45)	1.825 (46.36)
10-0S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	2.415 (61.34)	1.750 (44.45)	1.825 (46.36)

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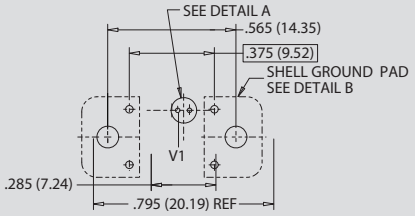
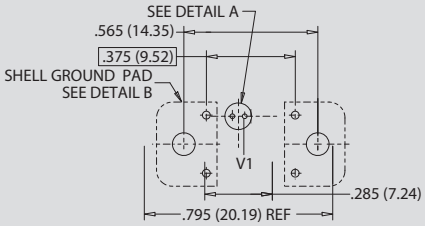
GVLM-1000: GVLRPM-BS, Rear Panel Mount, Straight PCB Connector Footprints

Plug Layout 1-0



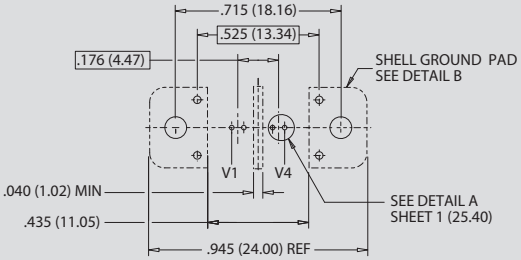
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

Receptacle Layout 1-0



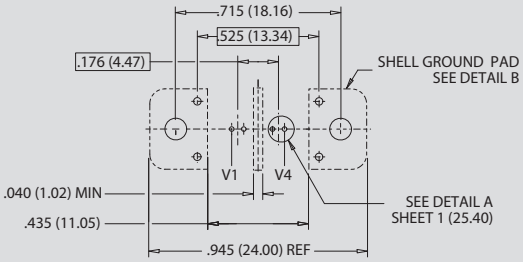
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

Plug Layout 2-0



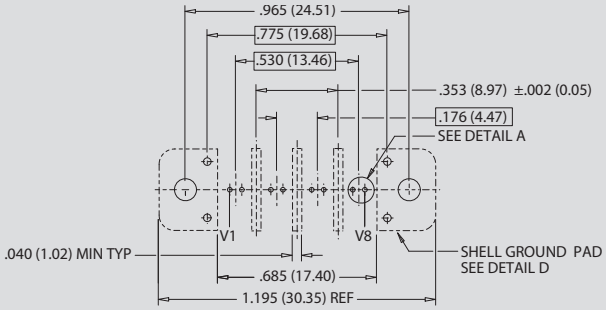
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

Receptacle Layout 2-0



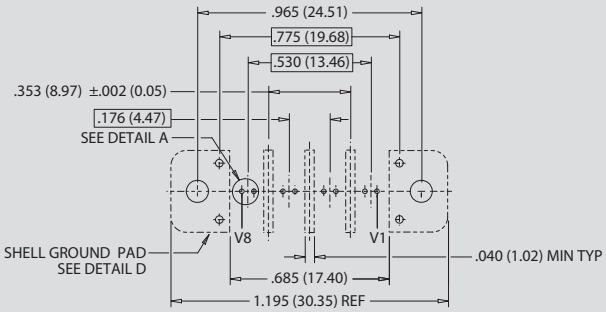
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

Plug Layout 4-0



REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

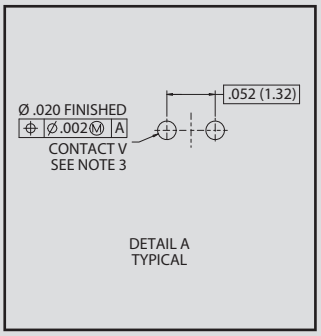
Receptacle Layout 4-0

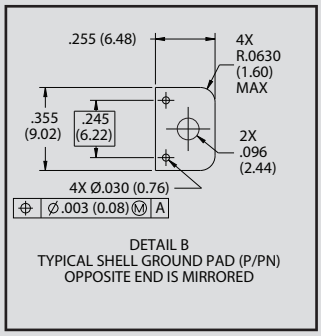


REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.





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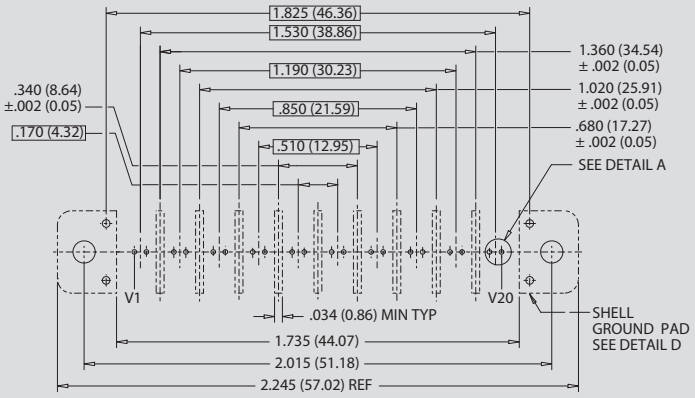
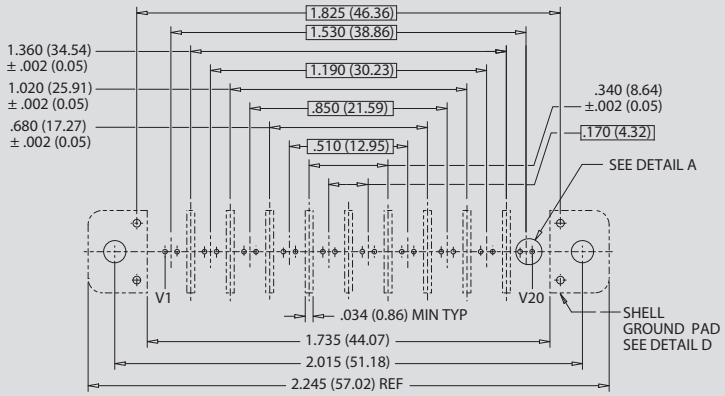
GVLM-1000: GVLRPM-BS, Rear Panel Mount, Straight PCB Connector Footprints

Plug Layout 10-0



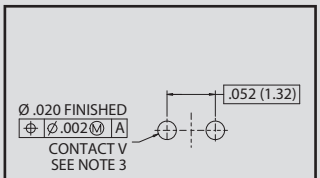
Receptacle Layout 10-0



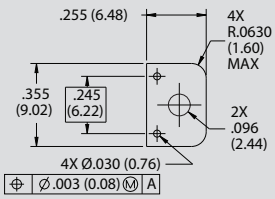
REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.



DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED

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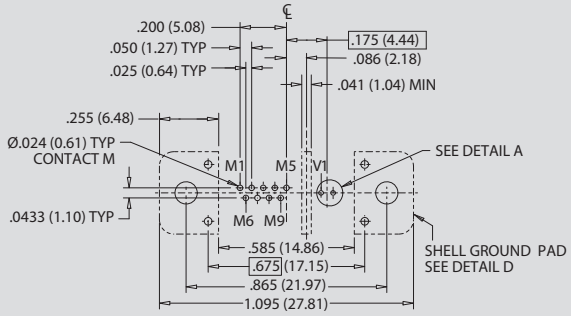
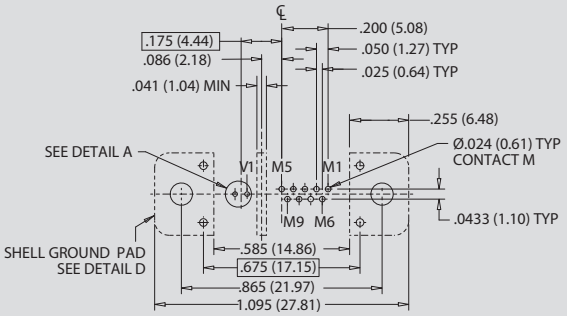
GVLM-1000: GVLRPM-BS, Rear Panel Mount, Straight PCB Connector Footprints

Plug Layout 1-9



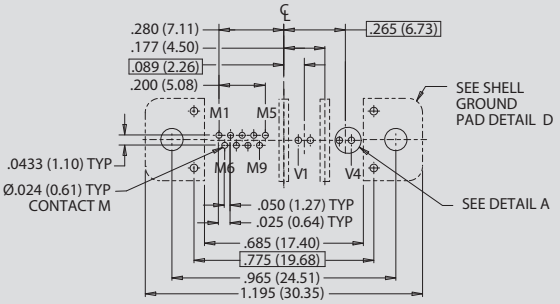
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

Receptacle Layout 1-9



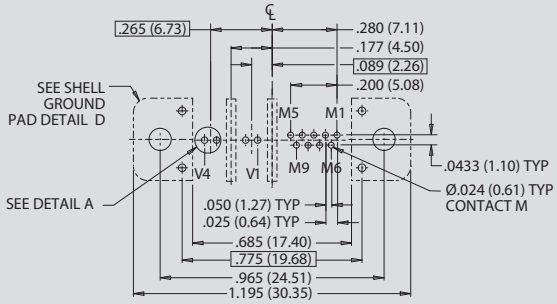
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

Receptacle Layout 2-9



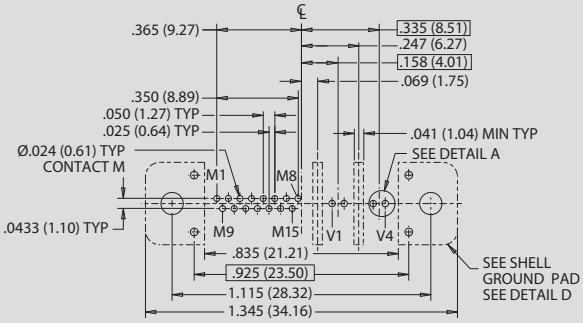
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

Receptacle Layout 2-9



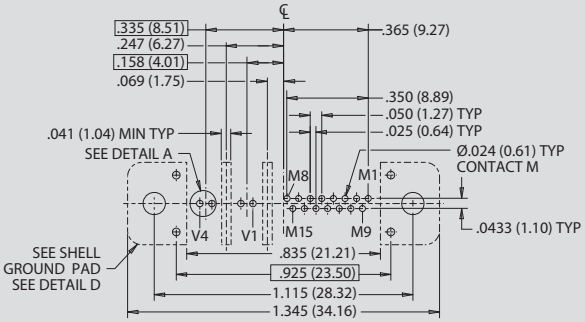
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

Plug Layout 2-15



REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

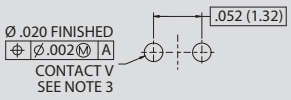
Receptacle Layout 2-15



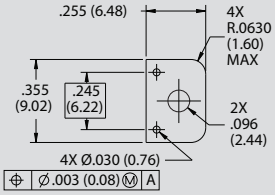
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.



DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED

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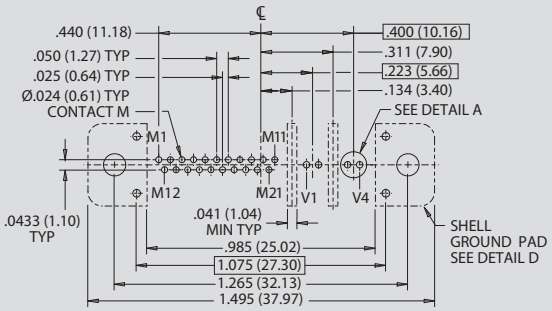
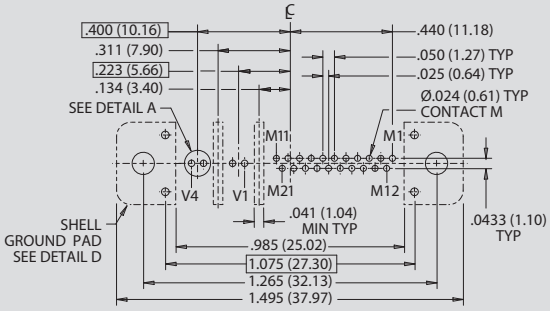
GVLM-1000: GVLRPM-BS, Rear Panel Mount, Straight PCB Connector Footprints

Plug Layout 2-21



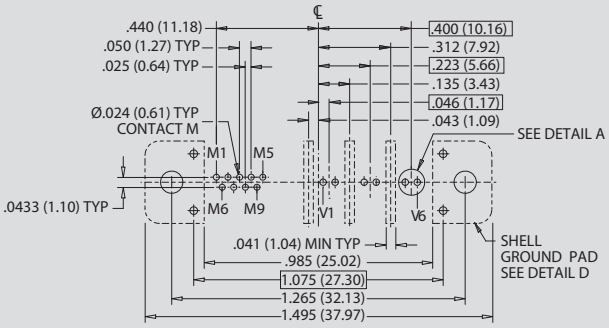
REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)

Receptacle Layout 2-21



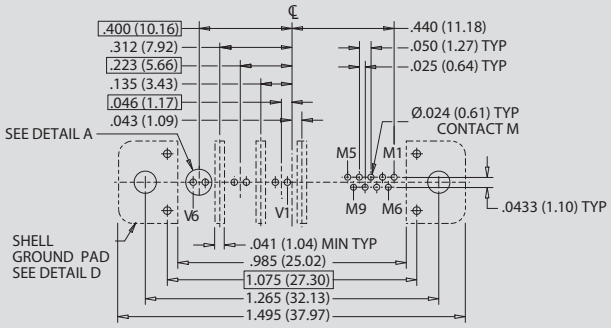
REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)

Plug Layout 3-9



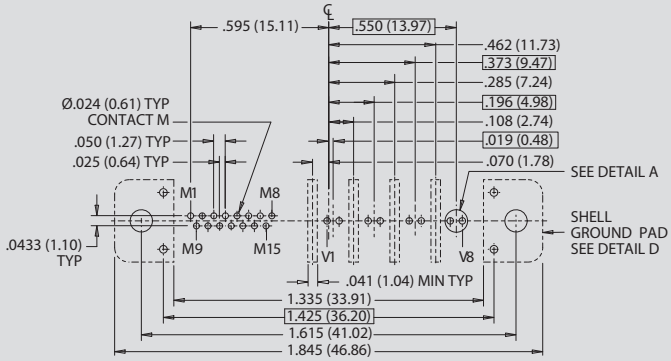
REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)

Receptacle Layout 3-9



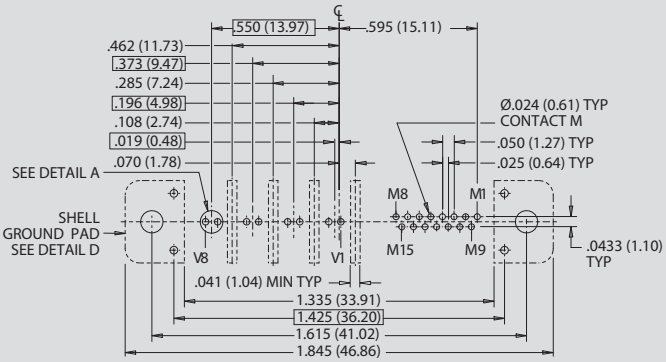
REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)

Plug Layout 4-15



REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)

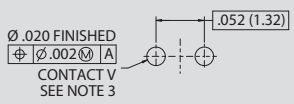
Receptacle Layout 4-15



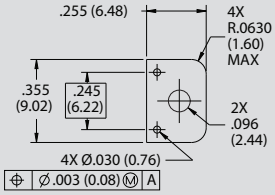
REAR PANEL MOUNT JACKPOSTS WHEN USING PEM NUT (R1 THRU R6)

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.



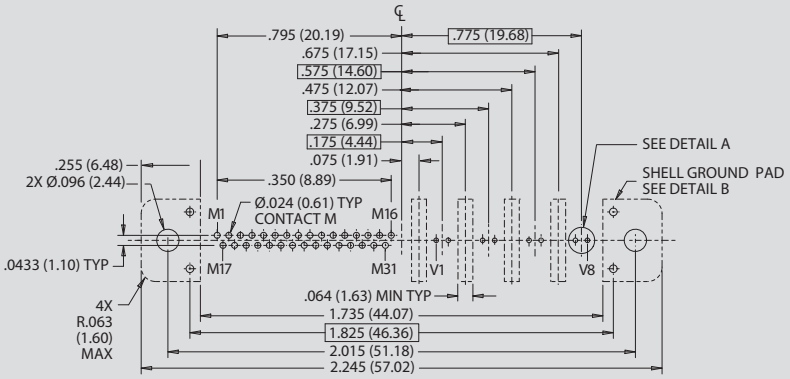
DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED

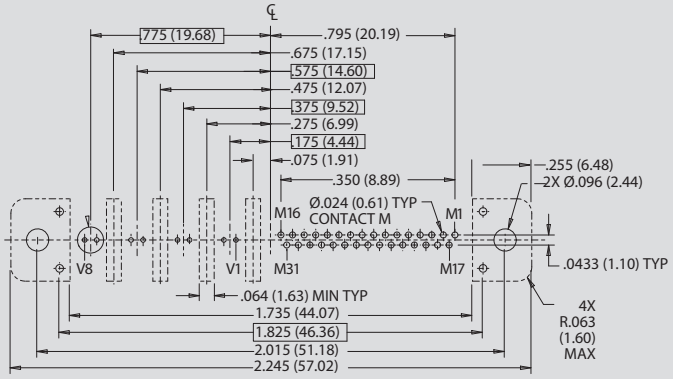
GVLM-1000: GVLRPM-BS, Rear Panel Mount, Straight PCB Connector Footprints

Pin Layout 4-31



REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

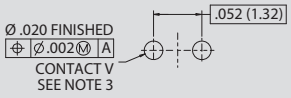
Receptacle Layout 4-31



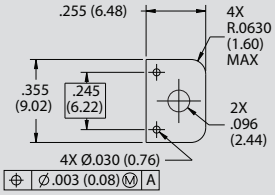
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT (R1 THRU R6)

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.



DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED

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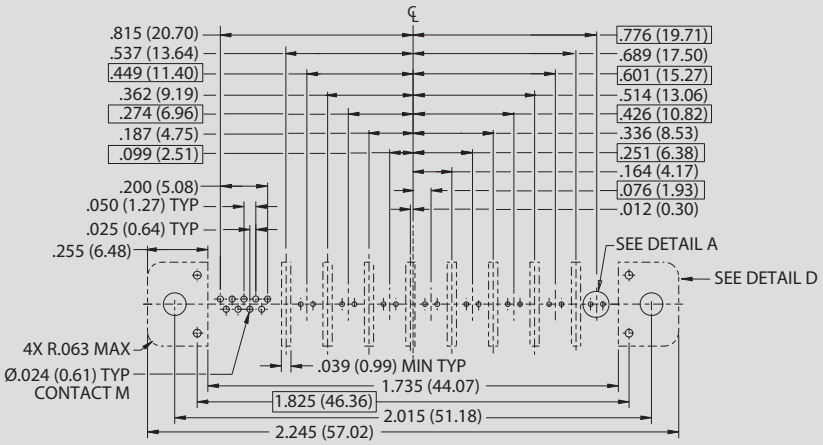
Dimensions in Inch (millimeter) are subject to change without notice.

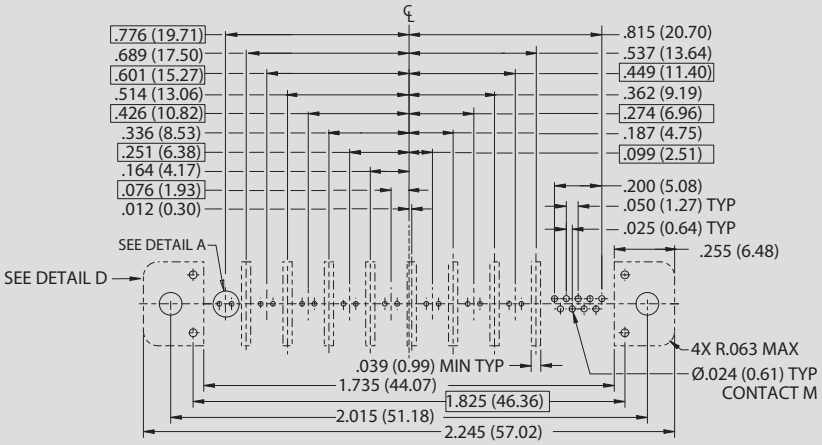
GVLM-1000: GVLRPM-BS, Rear Panel Mount, Straight PCB Connector Footprints

Plug Layout 8-9



REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT
(R1 THRU R6)

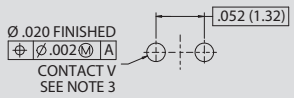
Receptacle Layout 8-9



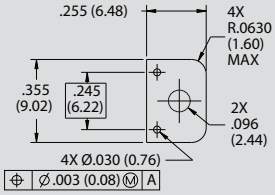
REAR PANEL MOUNT JACKPOSTS
WHEN USING PEM NUT
(R1 THRU R6)

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BS for connector details.
3. Reference application notes AN0005 for optimal performance.



DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD (P/PN)
OPPOSITE END IS MIRRORED

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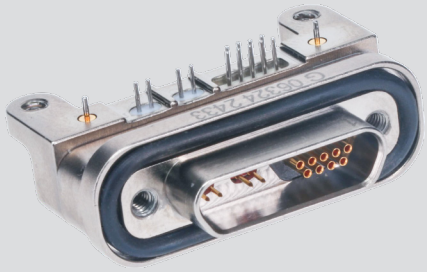
Dimensions in Inch (millimeter) are subject to change without notice.

M83513 Micro-D VersaLink™ Connectors

GVLRPM-BR, Rear Panel Mount, Right Angle PCB Connectors



PART NUMBER DEVELOPMENT

Sample Part Number	GVLRPM	2	L-	2-9	P	BR	R3	T	C	-.110
Series	**GVLRPM** = VersaLink RPM 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[3]	**P** = Plug **S** = Receptacle									
Connector Style	**BR** = Right Angle Board Mount									
Hardware[4,5]	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 **B** = Threaded inserts, no hardware									
Threaded Insert Option	**T** = Threaded insert in board mount hole; omit for thru-hole									
O-Ring	**C** = Conductive **N** = Non-conductive (Nitrile) **F** = Fluorosilicone									
PC Tail Length[6]	**-.080, -.110, -.140** (Length in Inches +.020/-.000)									

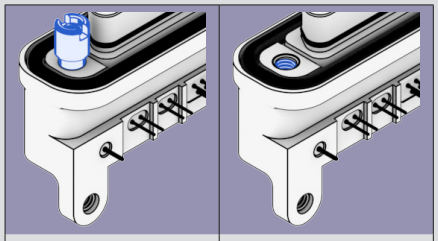
MATERIALS AND FINISHES

- 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

HARDWARE

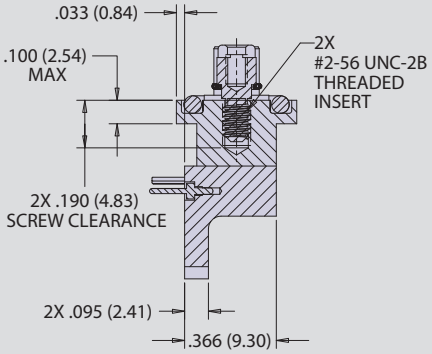


R1 - R6	B
Rear Panel Mount Jackposts	Threaded Inserts, No Hardware

NOTES

1. Refer to GHS4-M-1000 for insert arrangement details on page 94.
2. Refer to GVLM-1001 for GVLRPM-BR PCB footprints on page 142.
3. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
4. Hardware always required to ensure connector pair is fully mated when installed.
5. Refer to MIL-DTL-83513 panel cutout details on page 95.
6. PC tails are solder-dipped in 60/40 tin-lead solder.
7. Refer to 500-154 for protective cover on page 164.

CONNECTOR CUTAWAY



INSERT ARRANGEMENTS

Insert Arrangements	No. of Contacts VersaLink (V)	No. of Contacts 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
10-0P	10	0

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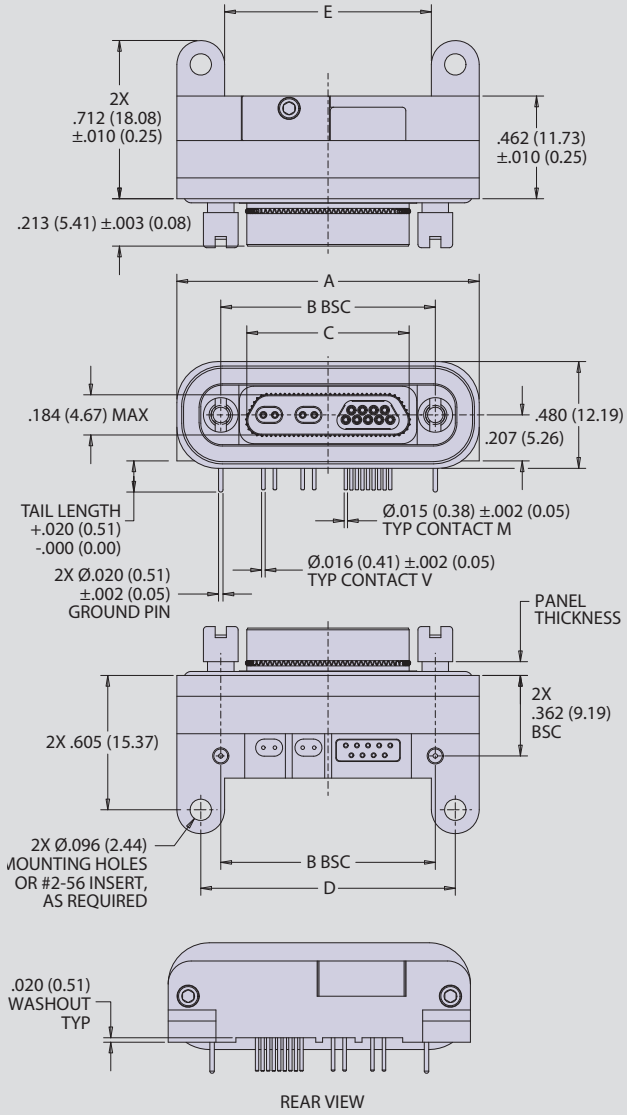
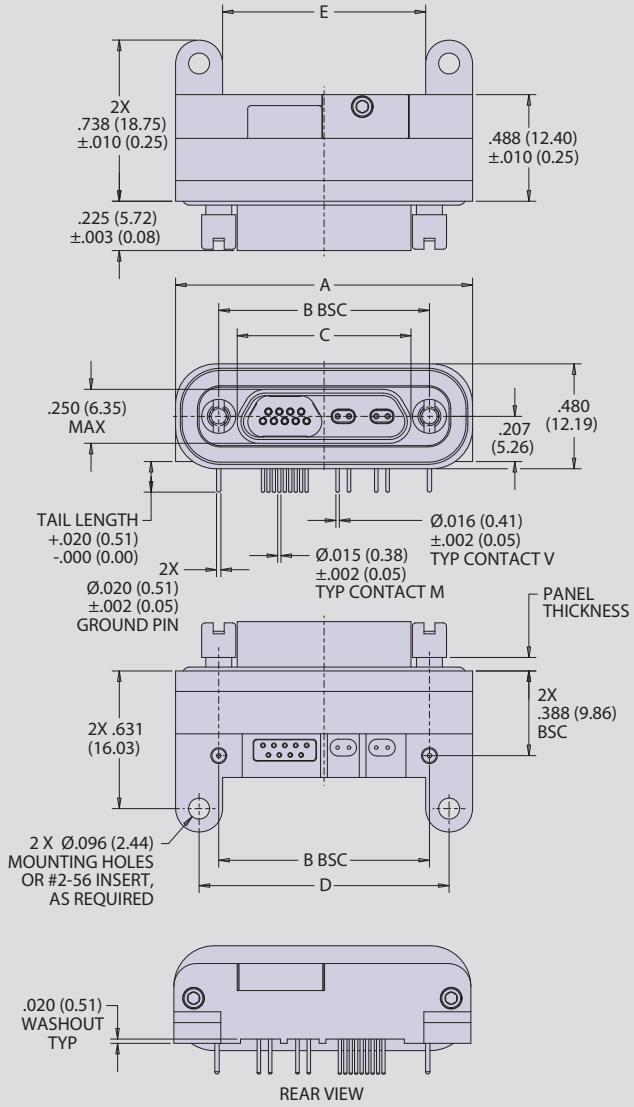
GVLRPM-BR, Rear Panel Mount, Right Angle PCB Connectors

GVLM-BR PCB RIGHT ANGLE PLUG CONNECTOR



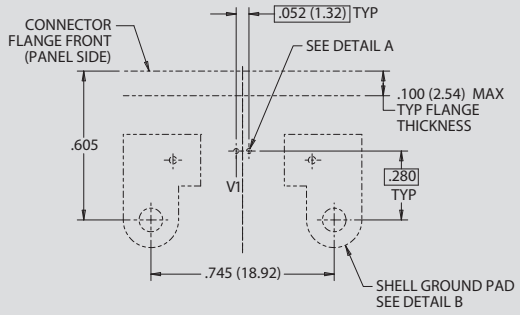
GVLM-BR PCB RIGHT ANGLE RECEPTACLE CONNECTOR



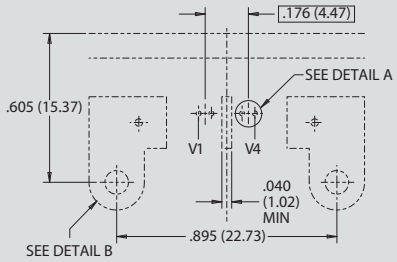
PLUG DIMENSIONS					
LAYOUT	A MAX	B± 0.005	C MAX	D ±0.005	E±.005
1-0P	0.965 (24.51)	0.565 (14.35)	0.333 (8.46)	0.745 (18.92)	0.530 (13.46)
2-0P	1.115 (28.32)	0.715 (18.16)	0.483 (12.27)	0.895 (22.73)	0.680 (17.27)
1-9P	1.265 (32.13)	0.865 (21.97)	0.633 (16.08)	1.045 (26.54)	0.830 (21.08)
2-9P	1.365 (34.67)	0.965 (24.51)	0.733 (18.62)	1.145 (29.08)	0.930 (23.62)
4-0P	1.365 (34.67)	0.965 (24.51)	0.733 (18.62)	1.145 (29.08)	0.930 (23.62)
2-15P	1.515 (38.48)	1.115 (28.32)	0.833 (21.16)	1.295 (32.89)	1.080 (27.43)
3-9P	1.665 (42.29)	1.265 (32.13)	1.033 (26.24)	1.445 (36.70)	1.230 (31.24)
4-15P	2.015 (51.18)	1.615 (41.02)	1.384 (35.15)	1.795 (45.59)	1.580 (40.13)
4-31P	2.415 (61.34)	2.015 (51.18)	1.784 (45.31)	2.195 (55.75)	1.980 (50.29)
8-9P	2.415 (61.34)	2.015 (51.18)	1.784 (45.31)	2.195 (55.75)	1.980 (50.29)
10-0P	2.415 (61.34)	2.015 (51.18)	1.784 (45.31)	2.195 (55.75)	1.980 (50.29)

RECEPTACLE DIMENSIONS					
LAYOUT	A MAX	B± 0.005	C MAX	D ±0.005	E±.005
1-0S	0.965 (24.51)	0.565 (14.35)	0.400 (10.16)	0.745 (18.92)	0.530 (13.46)
2-0S	1.115 (28.32)	0.715 (18.16)	0.551 (14.00)	0.895 (22.73)	0.680 (17.27)
1-9S	1.265 (32.13)	0.865 (21.97)	0.701 (17.81)	1.045 (26.54)	0.830 (21.08)
2-9S	1.365 (34.67)	0.965 (24.51)	0.801 (20.35)	1.145 (29.08)	0.930 (23.62)
4-0S	1.365 (34.67)	0.965 (24.51)	0.801 (20.35)	1.145 (29.08)	0.930 (23.62)
2-15S	1.515 (38.48)	1.115 (28.32)	0.951 (24.16)	1.295 (32.89)	1.080 (27.43)
3-9S	1.665 (42.29)	1.265 (32.13)	1.101 (27.97)	1.445 (36.70)	1.230 (31.24)
4-15S	2.015 (51.18)	1.615 (41.02)	1.450 (36.83)	1.795 (45.59)	1.580 (40.13)
4-31S	2.415 (61.34)	2.015 (51.18)	1.850 (46.99)	2.195 (55.75)	1.980 (50.29)
8-9S	2.415 (61.34)	2.015 (51.18)	1.850 (46.99)	2.195 (55.75)	1.980 (50.29)
10-0S	2.415 (61.34)	2.015 (51.18)	1.850 (46.99)	2.195 (55.75)	1.980 (50.29)

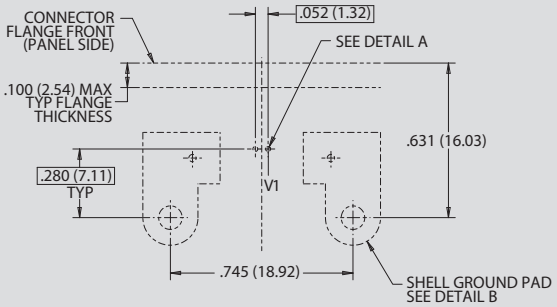
GVLM-1002: GVLRPM-BR, Rear Panel Mount, Right Angle PCB Connector Footprints



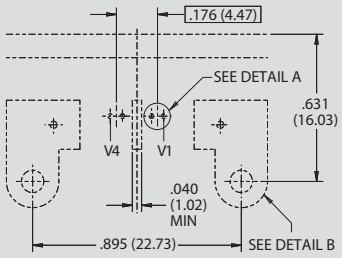
Plug Layout 1-0



Plug Layout 2-0



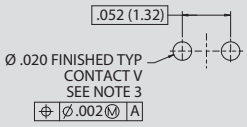
Receptacle Layout 1-0



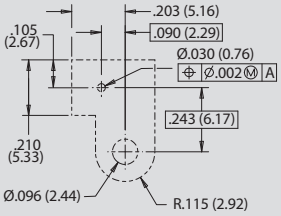
Receptacle Layout 2-0

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BR for connector details.
3. Reference application notes AN0005 for optimal performance.



DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD
OPPOSITE END IS MIRRORED

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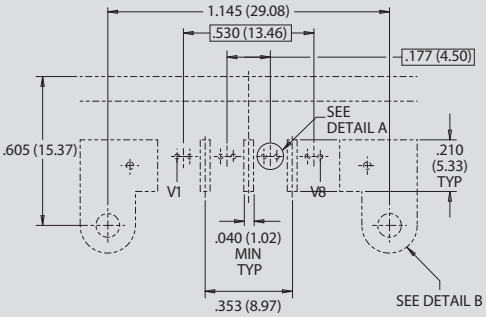
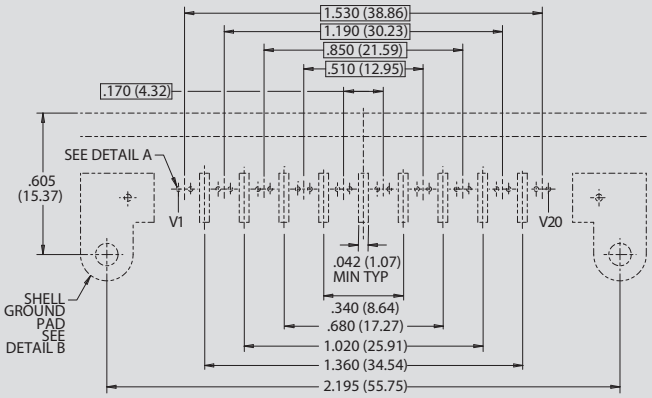
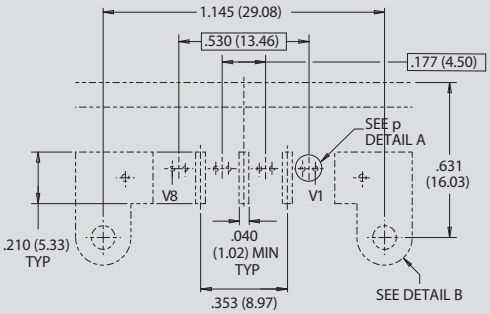
GVLM-1002: GVLRPM-BR, Rear Panel Mount, Right Angle PCB Connector Footprints



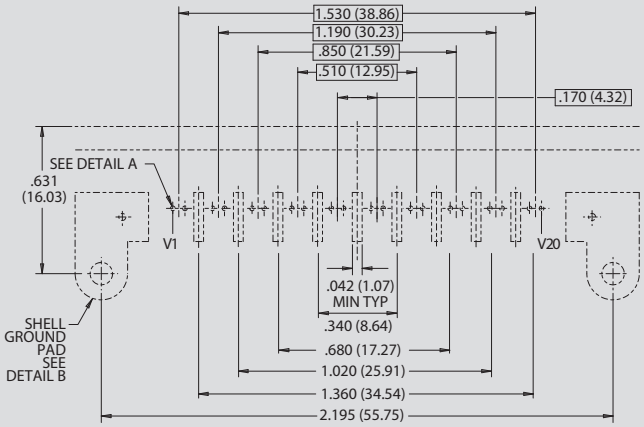
Plug Layout 4-0



Plug Layout 10-0



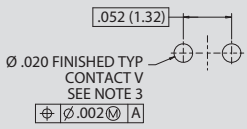
Receptacle Layout 4-0



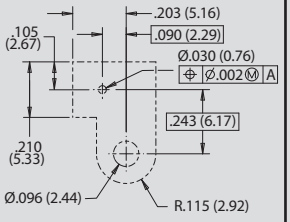
Receptacle Layout 10-0

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BR for connector details.
3. Reference application notes AN0005 for optimal performance.

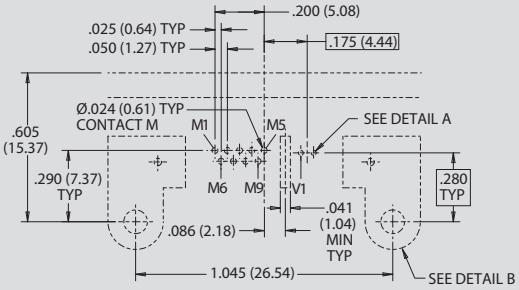


DETAIL A
TYPICAL

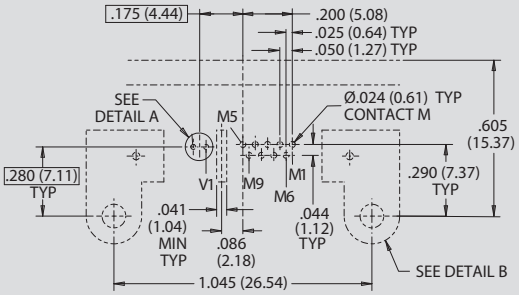


DETAIL B
TYPICAL SHELL GROUND PAD
OPPOSITE END IS MIRRORED

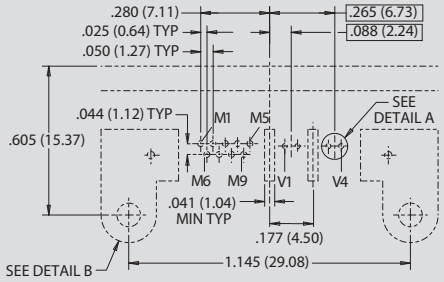
GVLM-1002: GVLRPM-BR, Rear Panel Mount, Right Angle PCB Connector Footprints



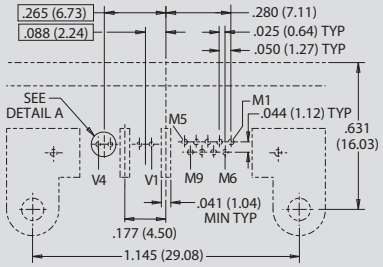
Plug Layout 1-9



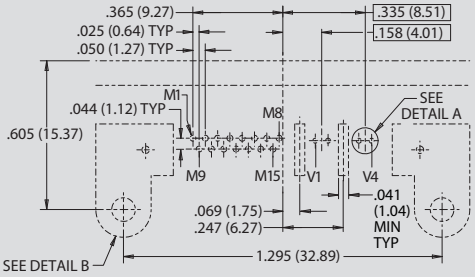
Receptacle Layout 1-9



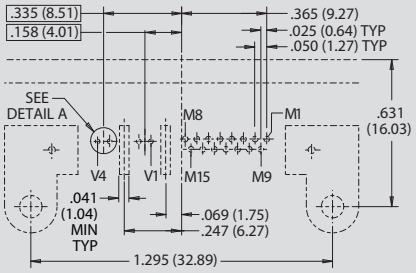
Plug Layout 2-9



Receptacle Layout 2-9



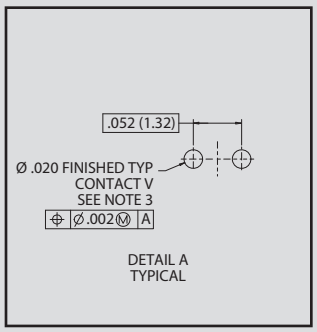
Plug Layout 2-15

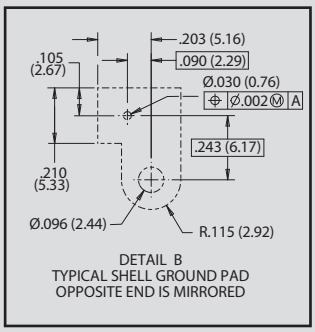


Receptacle Layout 2-15

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BR for connector details.
3. Reference application notes AN0005 for optimal performance.





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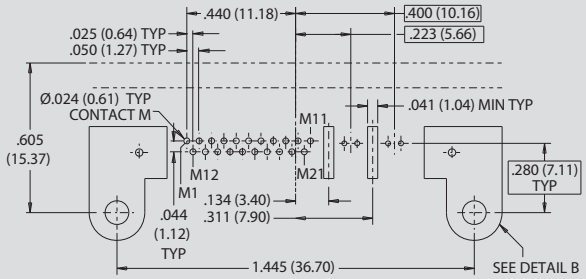
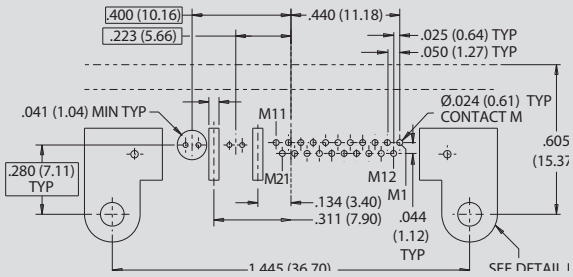
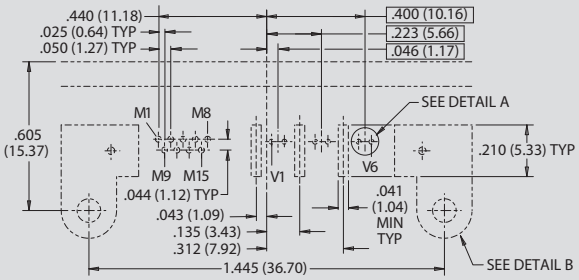
GVLM-1002: GVLRPM-BR, Rear Panel Mount, Right Angle PCB Connector Footprints



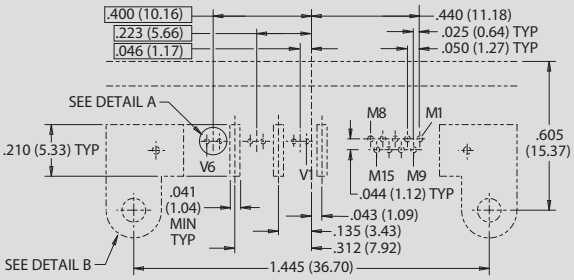
Plug Layout 2-21



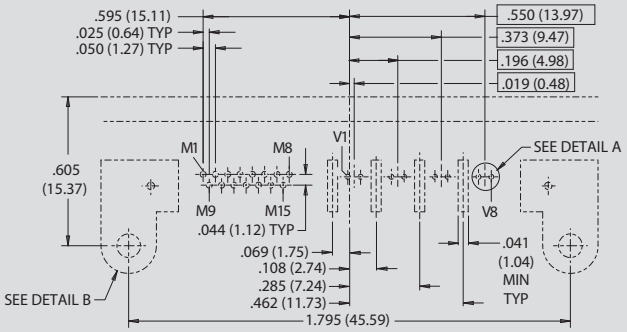
Receptacle Layout 2-21



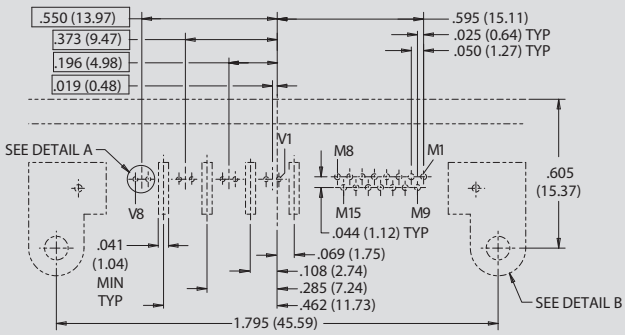
Plug Layout 3-9



Receptacle Layout 3-9



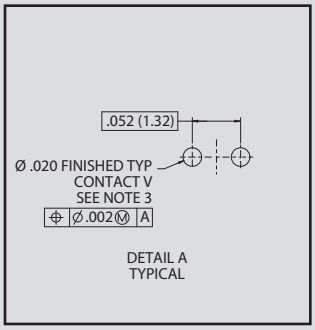
Plug Layout 4-15

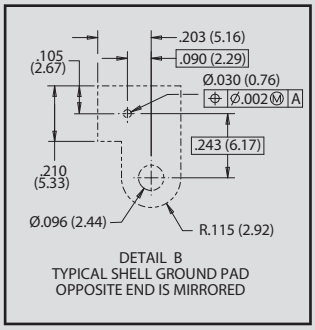


Receptacle Layout 4-15

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BR for connector details.
3. Reference application notes AN0005 for optimal performance.





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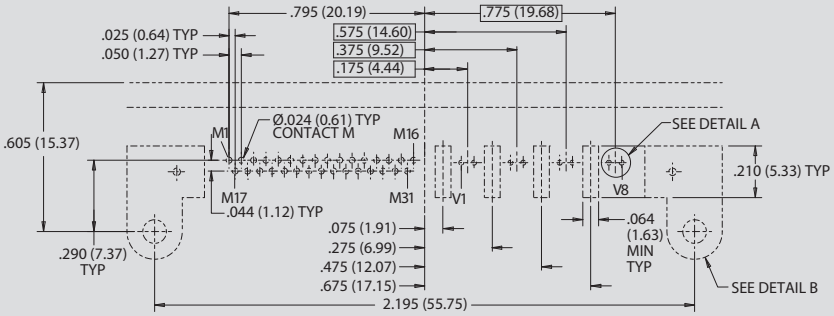
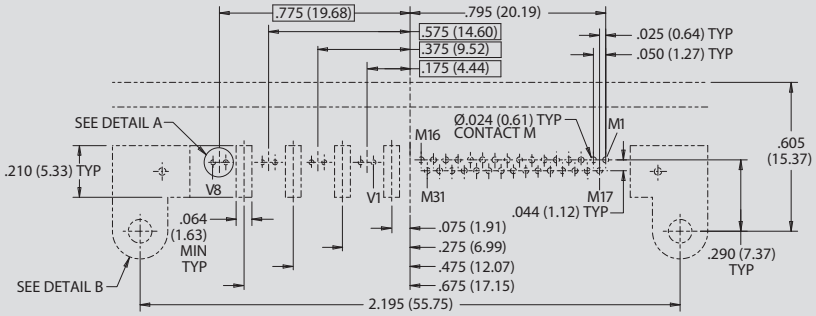
GVLM-1002: GVLRPM-BR, Rear Panel Mount, Right Angle PCB Connector Footprints



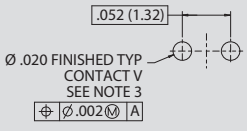
Plug Layout 4-31



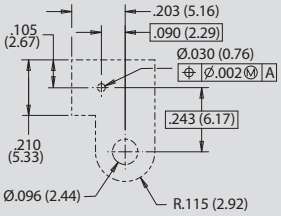
Receptacle Layout 4-31

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BR for connector details.
3. Reference application notes AN0005 for optimal performance.



DETAIL A
TYPICAL



DETAIL B
TYPICAL SHELL GROUND PAD
OPPOSITE END IS MIRRORED

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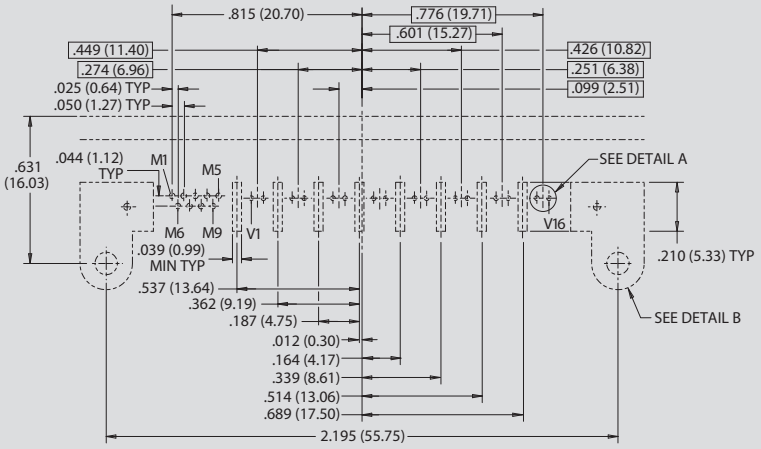
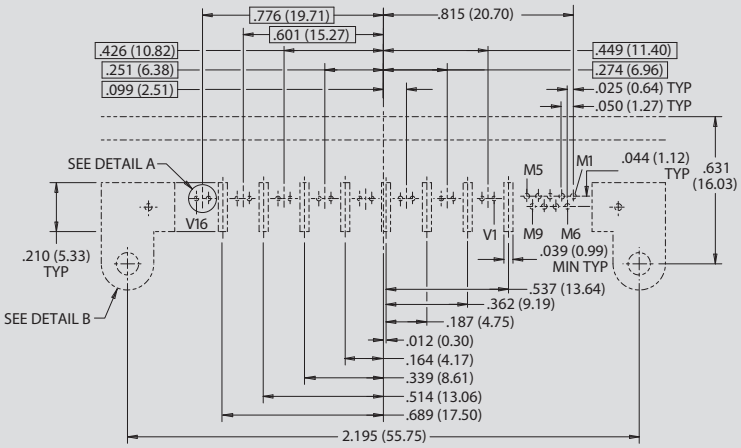
GVLM-1002: GVLRPM-BR, Rear Panel Mount, Right Angle PCB Connector Footprints



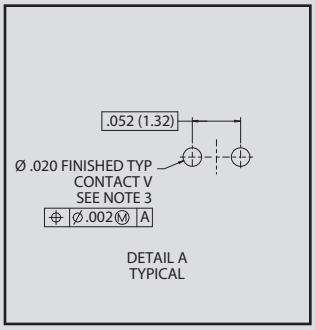
Plug Layout 8-9

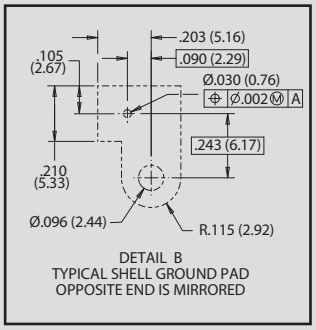


Receptacle Layout 8-9

NOTES

1. Patterns shown are for connector mounting side of PC board.
2. Reference GVLRPM-BR for connector details.
3. Reference application notes AN0005 for optimal performance.





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M83513 Micro-D VersaLink™ Connectors

GHS4-MS, Pre-Wired, Double or Single Ended Ground-Isolated Connector

MATERIALS AND FINISHES

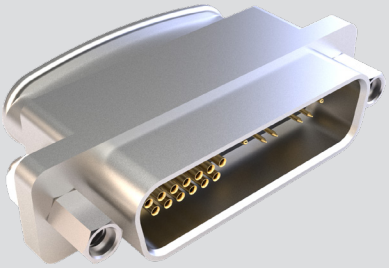
- Connector shell: aluminum alloy 6061
- Insulator (v): rigid dielectric
- Insulator (m): liquid crystal polymer (LCP) or polyphenylene sulfide (PPS)
- Flange seal: fluorosilicone rubber, blue
- Pin contact: copper alloy, gold over nickel plating
- Socket contact: copper alloy, gold over nickel plating
- Ground spring: stainless steel, gold plating
- Hardware: 300 series stainless steel, passivated
- Encapsulant: epoxy resin Hysol EE4215 and Duralco 120

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

NOTES

1. Refer to GHS4-MS-1000 for insert arrangement details on page 94.
2. Refer to GHS4-MS-1001 for wire layouts on page 99.
3. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts. GP and GS cable ends rotated 180° relative to each other due to connector symmetry.
4. Omit wire information when contact layout "M" = 0 (e.g. 2-0, 4-0, or 8-0).
5. Hardware always required to ensure connector pair is fully mated when installed.
6. Glenair VersaLink Micro-D connectors are only available as factory terminated.
7. GHS4-MS connectors only mate with GVLMS-BS and other ground isolated VersaLink Micro-D connectors.



PART NUMBER DEVELOPMENT

Sample Part Number	GHS4-MS	2	L-	2-13	P	B	6	J	1	-18	P	N
Series	**GHS4-MS** = Ground Isolated Micro-D											
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 (Single End) **S** = Receptacle (Single End) **GP** = Double End Cable, Pin Connectors Both Ends **GS** = Double End Cable, Socket Connector Both Ends **CS** = Double End Cable, Pin and Socket							
VersaLink Cable Type						**B** = Glenair cable 963-068-26 (100 Ohm) **C** = Glenair cable 963-069-26 (100 Ohm)						
Discrete Wire Gage (AWG)[4]							**4** = #24 **6** = #26 **8** = #28 **0** = #30 (J Wire Type Only)					
Discrete Wire Type[4]								**K** = M22759/11 600 VRMS Teflon (TFE) **J** = M22759/33 600 VRMS Modified Cross-Linked Tefzel (ETFE) **E** = NEMA HP3-EB 600 VRMS Type E M16878/4 (TFE)				
Discrete Wire Color[4]									**1** = White **5** = Color-coded Stripes Per MIL-STD-681 **7** = Ten Color Repeating			
Wire Length Inches										Wire Length in inches. "**18**" specifies 18 inches. 6 inch minimum		
Hardware[5]											**P** = Jackpost **M** = Hex Head Jackscrew **S** = Hex Head Jackscrew **L** = Hex Head Jackscrew (Non-removable) See mounting hardware table	
Shield and Jacket Option												**N** = No Shield, No Jacket (Customer To Install) **A** = Braided Shield Installed (Nickel Over Copper) **C** = Braided Shield Installed (Nickel Over Copper) with E-CTFE Halar "Expando" Jacket **S** = 100% Braided Amberstrand Shield Installed **T** = 100% Braided Amberstrand Shield Installed with E-CTFE Halar "Expando" Jacket **V** = 75% Braided Amberstrand Shield Installed **Z** = 75% Braided Amberstrand Shield Installed with E-CTFE Halar "Expando" Jacket **W** = Armorlite Braided Microfilament Stainless Steel Shield Installed **X** = Armorlite Braided Microfilament Stainless Steel Shield Installed with E- CTFE Halar "Expando" Jacket

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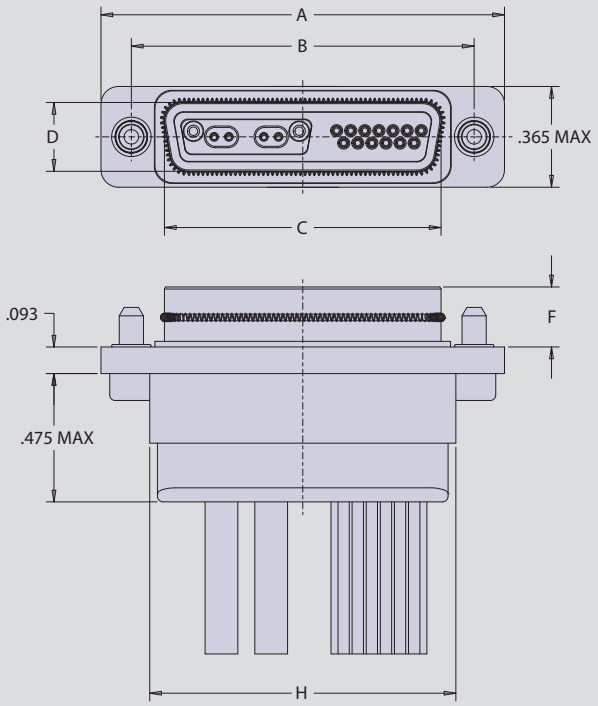
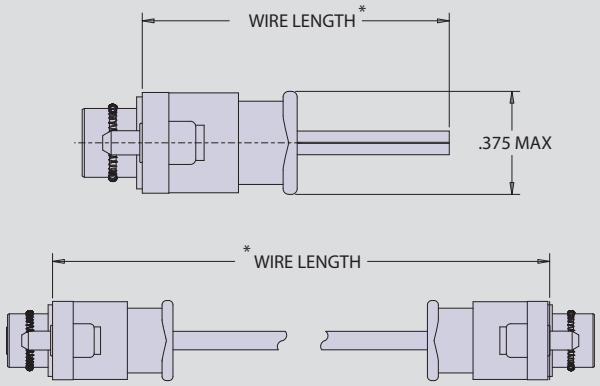
M83513 Micro-D VersaLink™ Connectors

GHS4-MS, Pre-Wired, Double or Single Ended Ground-Isolated Connector

INSERT ARRANGEMENTS





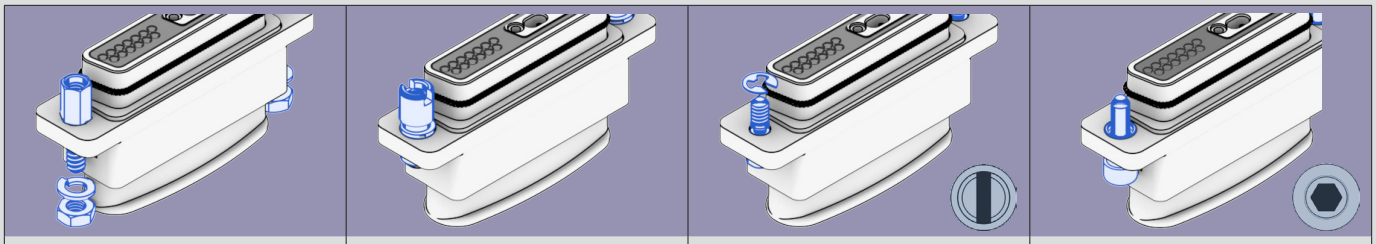
* - Wire length tolerance up to 60" +2"/-0"; greater than 60" +3%/-0%.

CABLE ASSEMBLY DIMENSIONS						
LAYOUT	A MAX	B±.003	C MAX	D MAX	F±.003	H MAX
2-0P	1.038 (26.37)	0.817 (20.75)	0.585 (14.86)	0.250 (6.35)	0.213 (5.41)	0.693 (17.60)
2-0S	1.038 (26.37)	0.817 (20.75)	0.653 (16.59)	0.315 (8.00)	0.225 (5.72)	0.693 (17.60)
2-13P	1.436 (36.47)	1.215 (30.86)	0.983 (24.97)	0.250 (6.35)	0.213 (5.41)	1.091 (27.71)
2-13S	1.436 (36.47)	1.215 (30.86)	1.051 (26.70)	0.315 (8.00)	0.225 (5.72)	1.091 (27.71)
4-0P	1.436 (36.47)	1.215 (30.86)	0.983 (24.97)	0.250 (6.35)	0.213 (5.41)	1.091 (27.71)
4-0S	1.436 (36.47)	1.215 (30.86)	1.051 (26.70)	0.315 (8.00)	0.225 (5.72)	1.091 (27.71)
4-25P	2.300 (58.42)	2.094 (53.19)	1.797 (45.64)	0.250 (6.35)	0.213 (5.41)	1.955 (49.66)
4-25S	2.300 (58.42)	2.094 (53.19)	1.865 (47.37)	0.315 (8.00)	0.225 (5.72)	1.955 (49.66)
8-0P	2.300 (58.42)	2.094 (53.19)	1.797 (45.64)	0.250 (6.35)	0.213 (5.41)	1.955 (49.66)
8-0S	2.300 (58.42)	2.094 (53.19)	1.865 (47.37)	0.315 (8.00)	0.225 (5.72)	1.955 (49.66)

INSERT ARRANGEMENTS

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

MOUNTING HARDWARE



P	M	S	L
Jackpost	Hex Head Jackscrew	Slot Head Jackscrew	Hex Head Jackscrew, Non-Removable

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M83513 Micro-D VersaLink™ Connectors

GVLMS-BS, Board Mount Straight, Ground Isolated 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

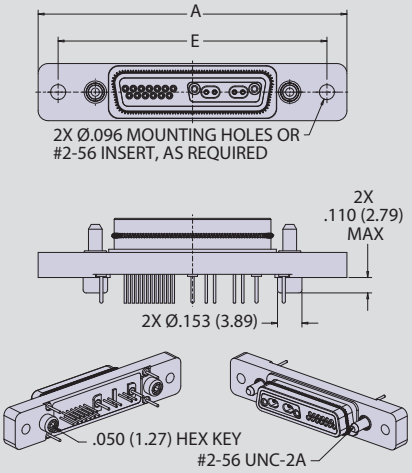
NOTES

1. Refer to GHS4-MS-1000 for insert arrangement details on page 94.
2. Refer to GVLM-1004 for GVLMS-BS for wire diagrams on page 152.
3. Connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
4. Refer to GVLM-1005 for panel cutout details on page 95.
5. Connectors are solder-dipped in 60/40 tin-lead solder.
6. 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

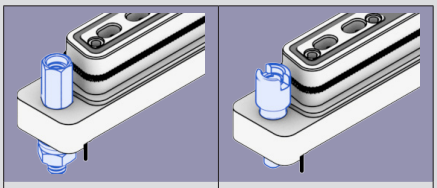


Layout	A Max	E
2-0	1.538 (39.07)	1.282 (32.56)
2-13	1.936 (49.17)	1.680 (42.67)
4-0	1.936 (49.17)	1.680 (42.67)
4-25	2.800 (71.12)	2.559 (65.00)
8-0	2.800 (71.12)	2.559 (65.00)

INSERT ARRANGEMENTS

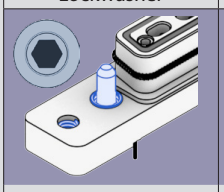
Insert Arrangements	No. of Contacts VersaLink (V)	No. of Contacts TwistPin (M)
2-0	2	0
2-13	2	13
4-0	4	0
4-25	4	25
8-0	8	0

MOUNTING HARDWARE

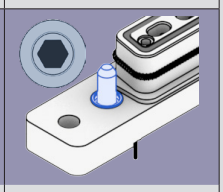


PN
Extended Jackpost, with Hex Nut and Lockwasher

R1-R6
Rear Panel Jackposts



L
Hex Head Jackscrew (non-removable), with Threaded Insert



LU
Hex Head Jackscrew (non-removable), with Thru-Hole

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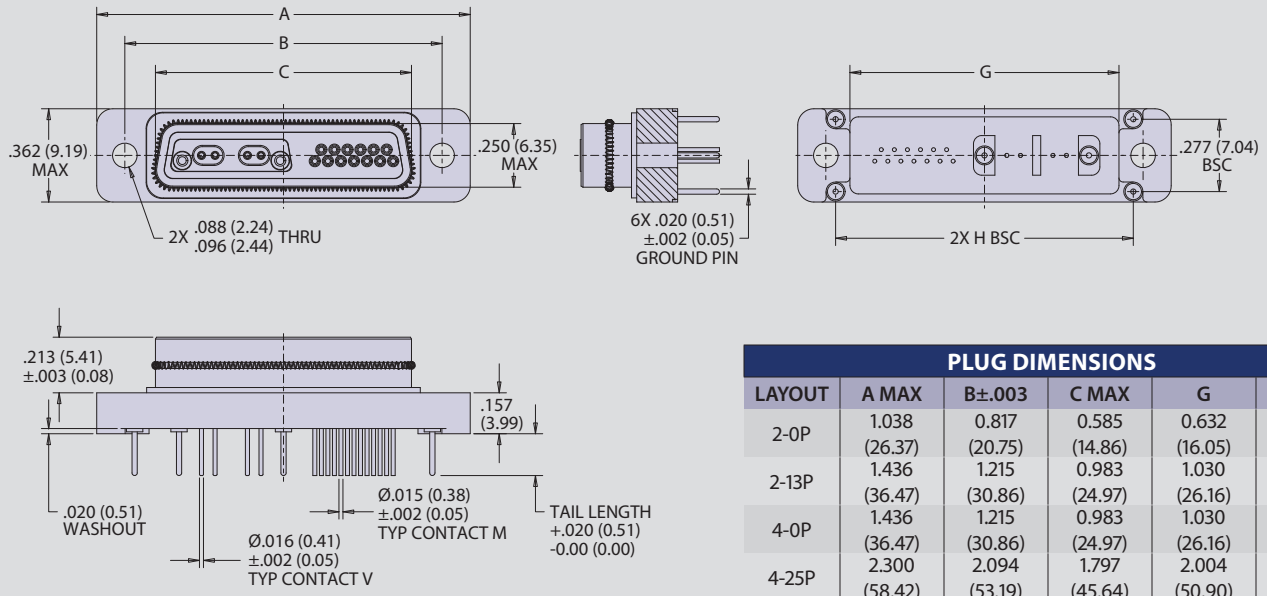
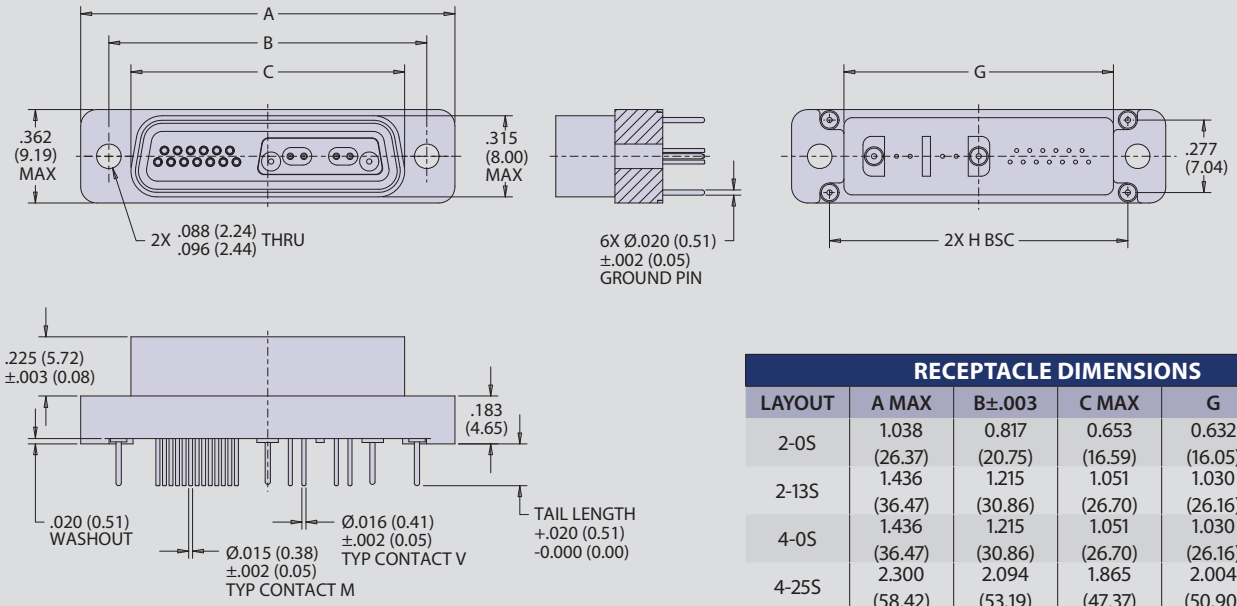
GVLMS-BS, Board Mount Straight, Ground Isolated Connectors

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)

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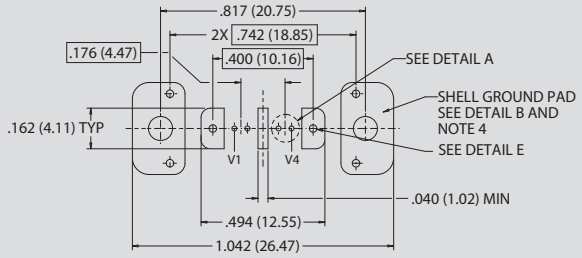
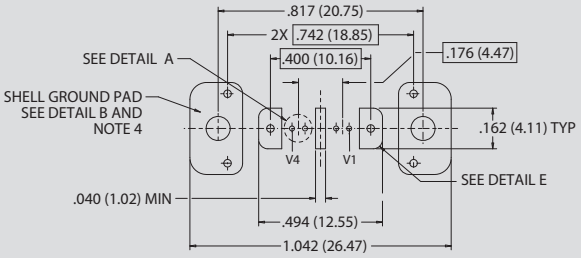
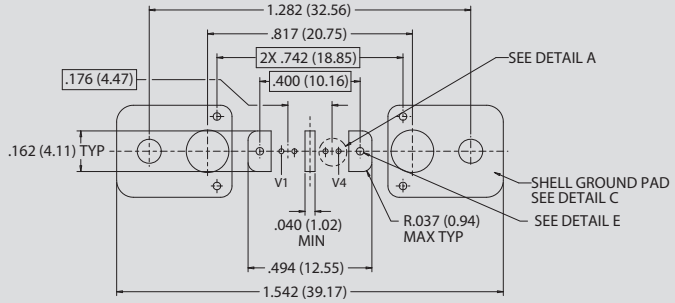
GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints



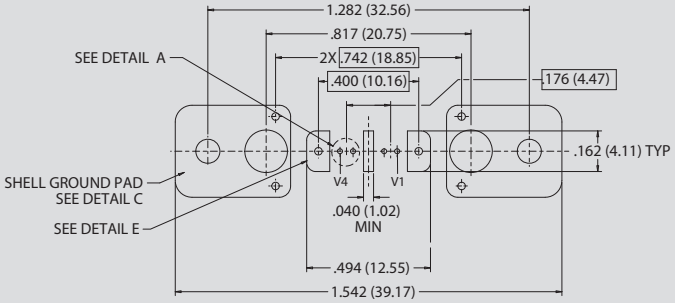
Plug Layout 2-0
PN and R1-R6 Hardware



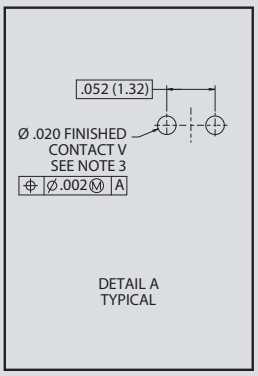
Receptacle Layout 2-0
PN and R1-R6 Hardware

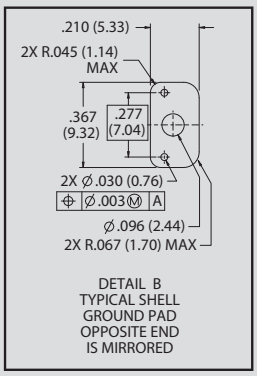


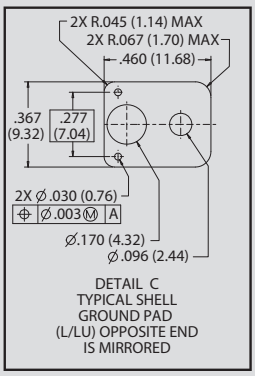
Plug Layout 2-0
L/LU Hardware

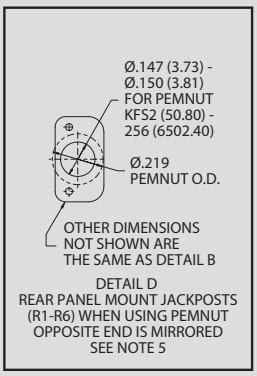


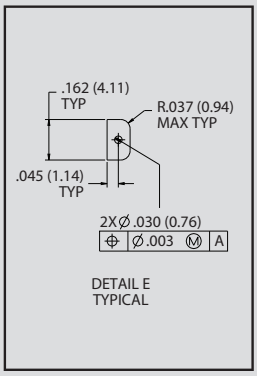
Receptacle Layout 2-0
L/LU Hardware











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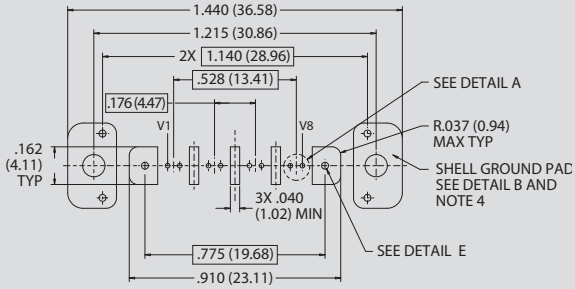
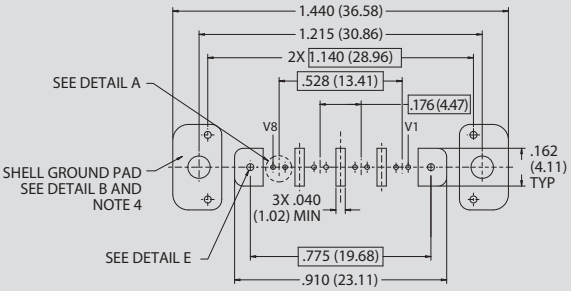
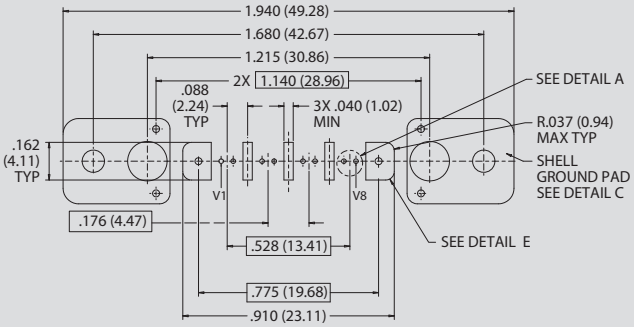
GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints



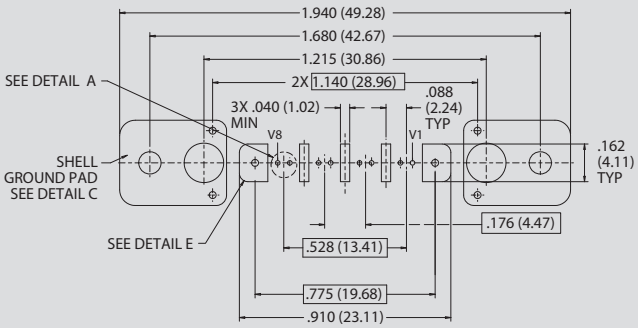
Plug Layout 4-0
PN and R1-R6 Hardware



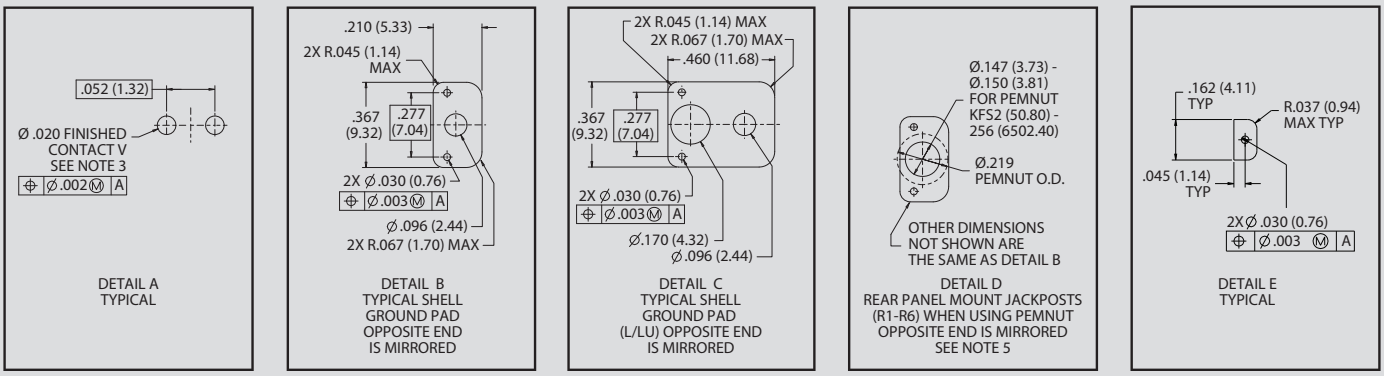
Receptacle Layout 4-0
PN and R1-R6 Hardware



Plug Layout 4-0
L/LU Hardware



Receptacle Layout 4-0
L/LU Hardware



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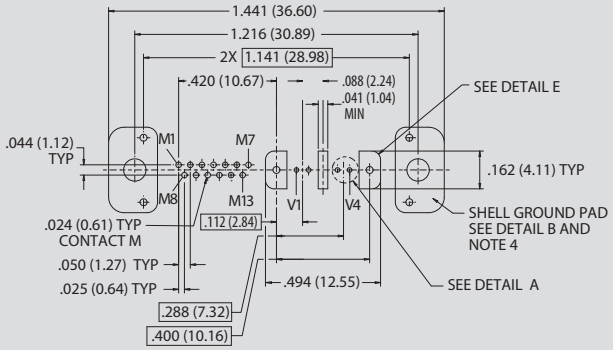
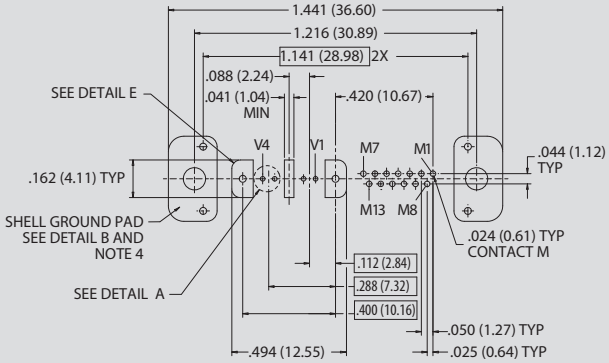
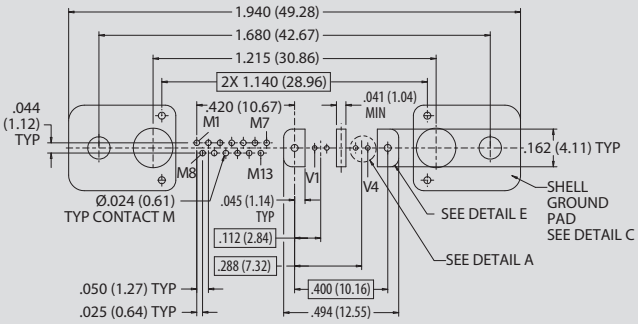


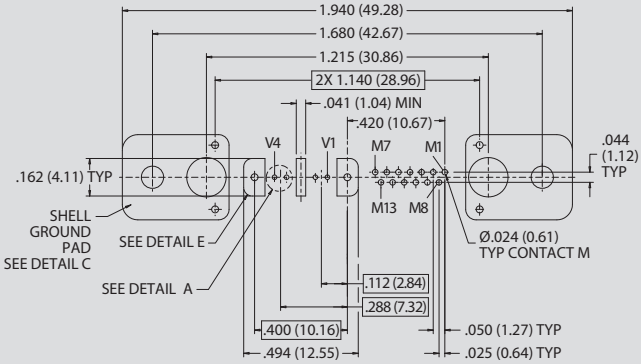
Plug Layout 2-13
PN and R1-R6 Hardware



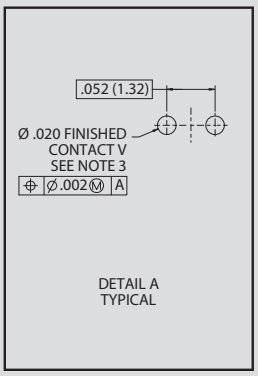
Receptacle Layout 2-13
PN and R1-R6 Hardware

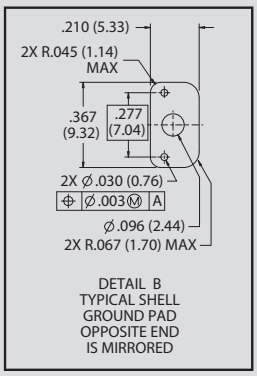


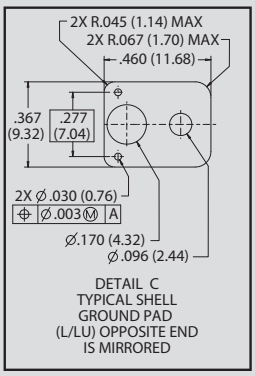
Plug Layout 2-13
L/LU Hardware

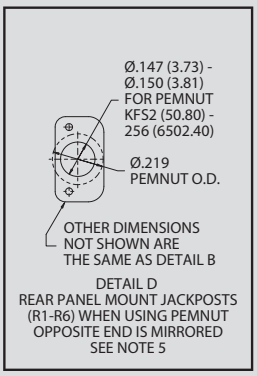


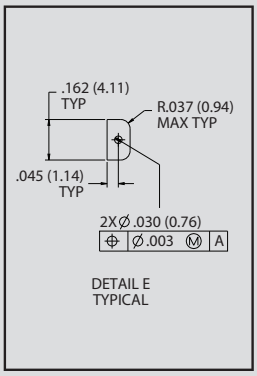
Receptacle Layout 2-13
L/LU Hardware











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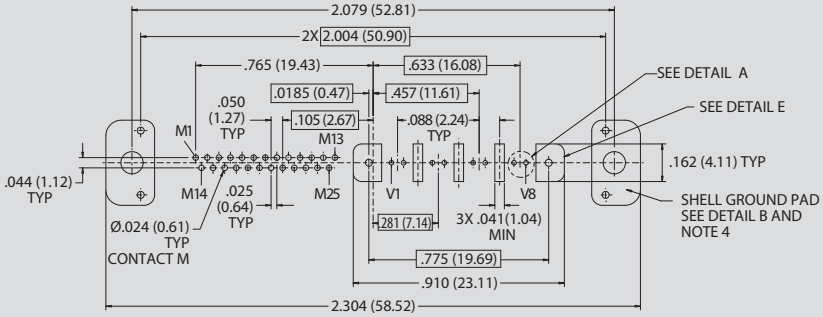
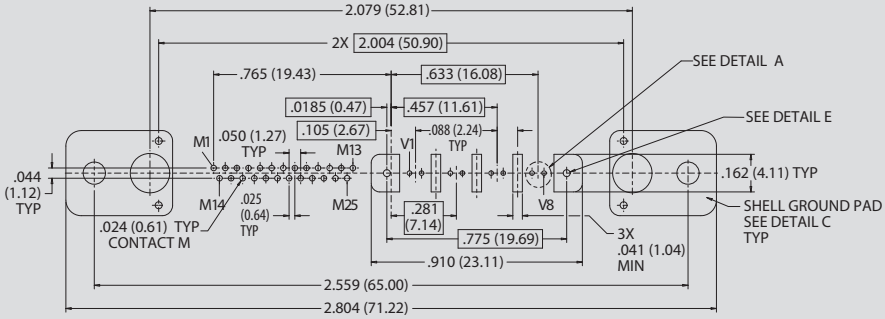
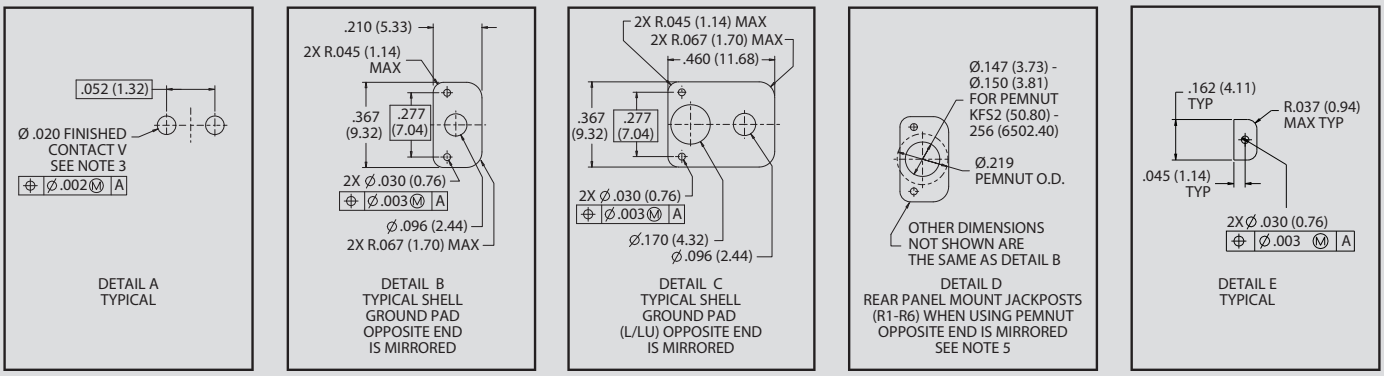
GVLM-1004: GVLMS-BS, Board Mount Straight, Ground-Isolated Connector PCB Footprints



Plug Layout 4-25
PN and R1-R6 Hardware



Plug Layout 4-25
L/LU Hardware



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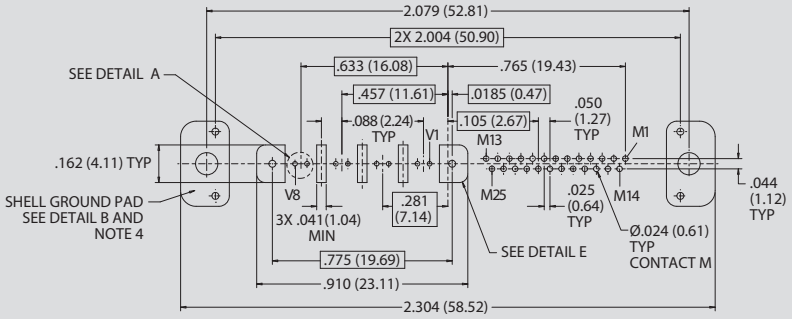
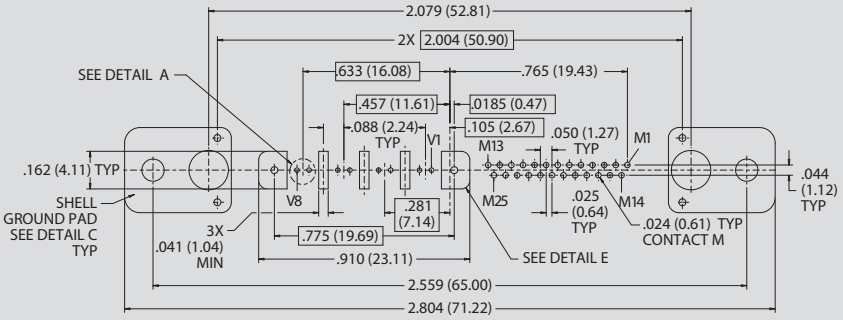
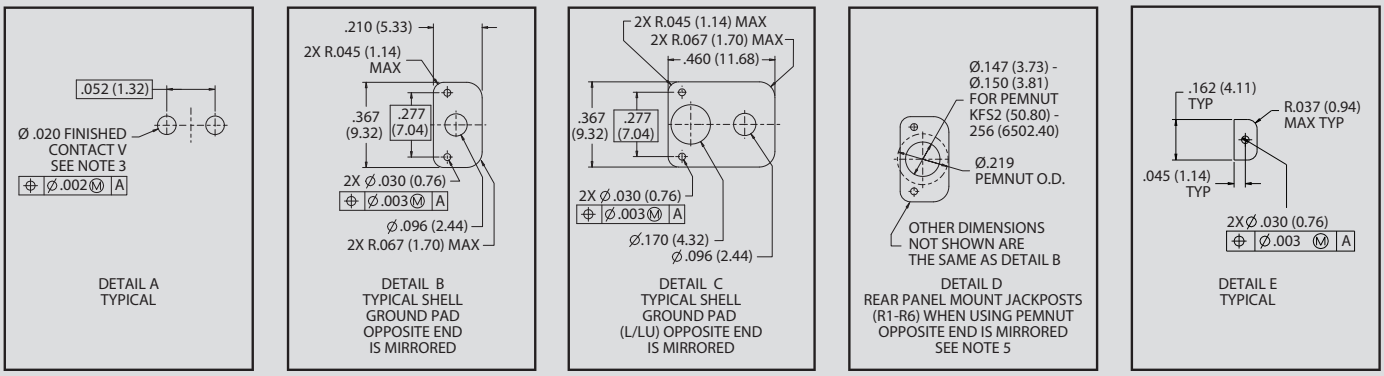


Receptacle Layout 4-25
PN and R1-R6 Hardware



Receptacle Layout 4-25
L/LU Hardware



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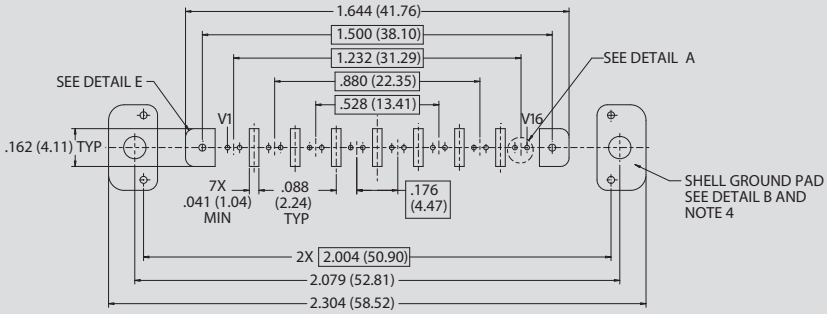
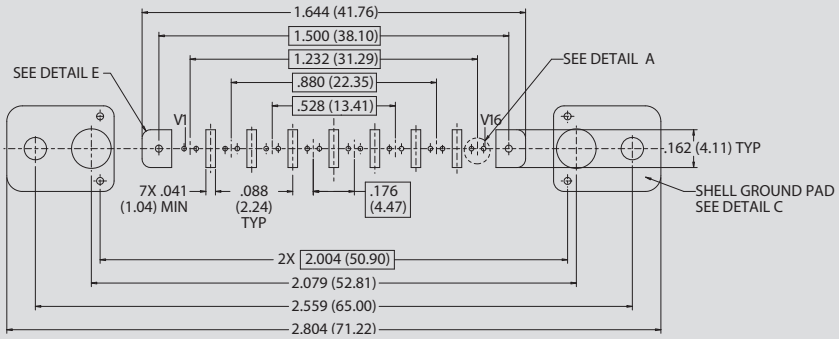
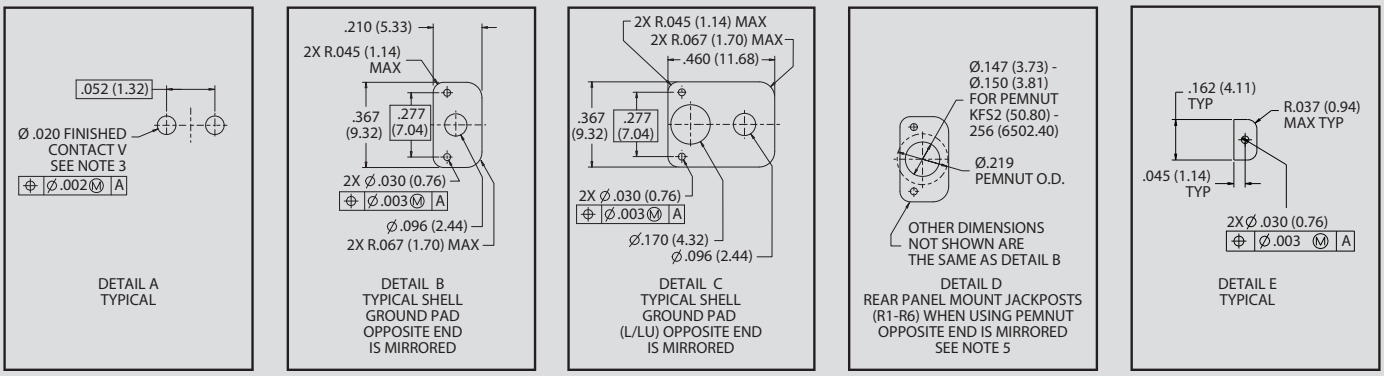


Plug Layout 8-0
PN and R1-R6 Hardware



Plug Layout 8-0
L/LU Hardware



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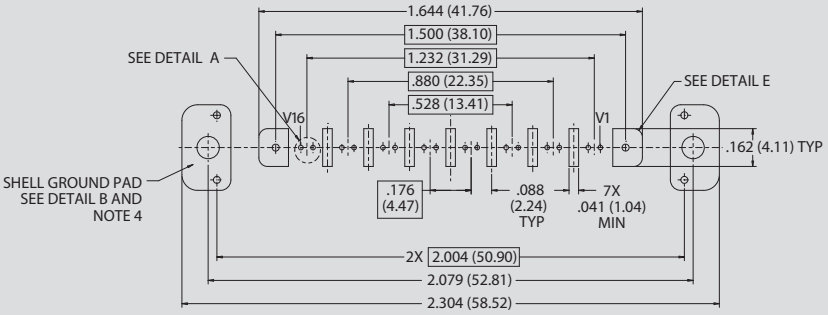
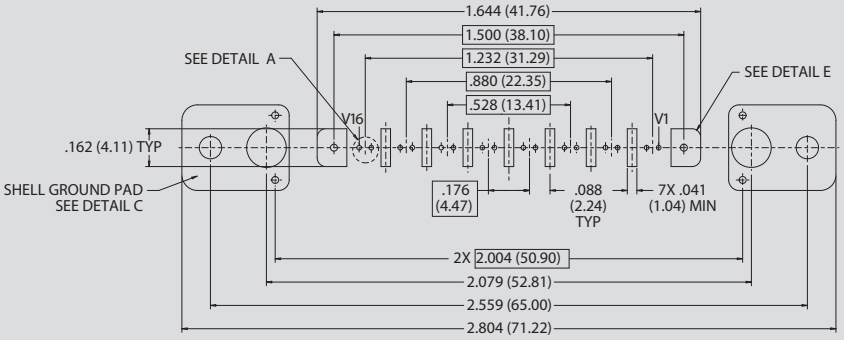


Receptacle Layout 8-0
PN and R1-R6 Hardware



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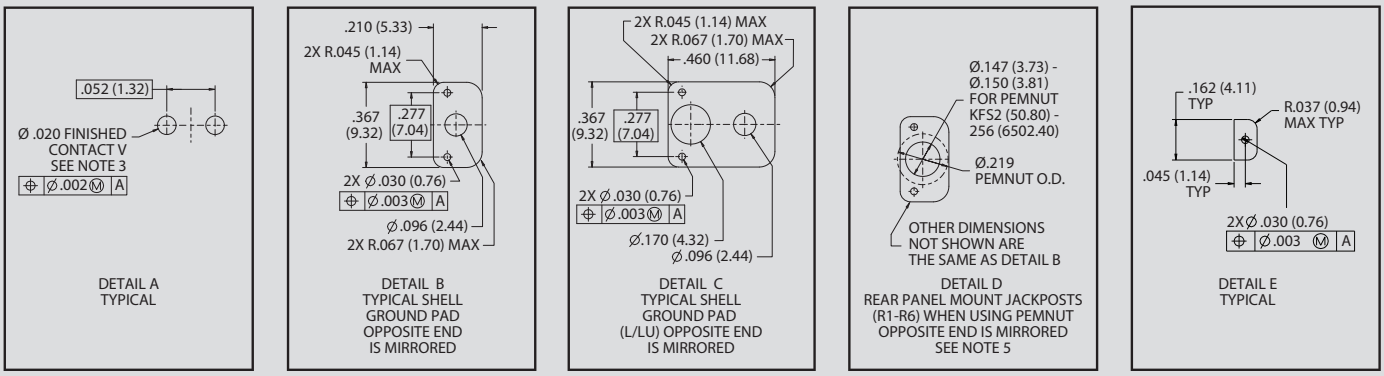
L/LU Hardware



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M83513 Micro-D VersaLink™ Connectors

GVLM-1007 Code-Red Light Weight Hermetic Bulkhead Feedthru

CODE RED

MATERIALS AND FINISHES

- Connector shell: aluminum alloy 6061, nickel plating
- 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

PERFORMANCE SPECIFICATIONS

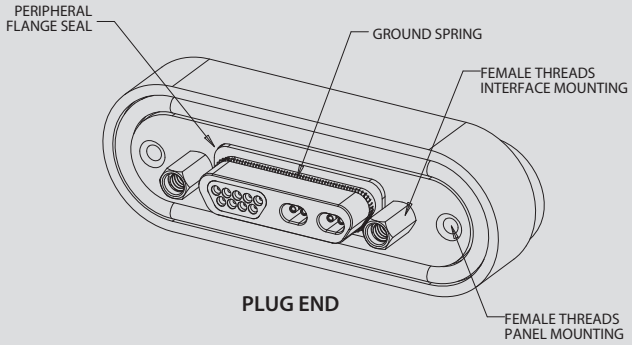
- Hermetic Sealing: 10^{-7} ccHe at 1 ATM
- Current rating: 3 amp (Micro-D contact)
- DWV: 600 VAC sea level
- Insulation resistance: 5000 megohms minimum
- Operating temperature: -55° C to +150° C
- Mating force (contact V): (5 ounces) x (# of contacts)
- Mating force (contact M): (10 ounces) x (# of contacts)
- Electrical performance IAW Glenair specification GT-19-230
- Interface dimensions IAW MIL-DTL-83513

NOTES

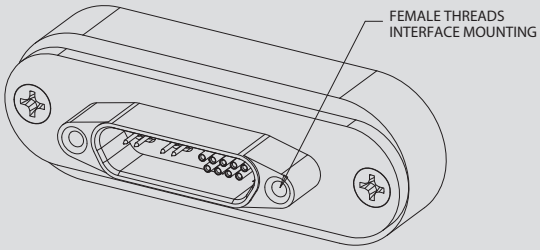
1. Refer to GHS4-M-1000 for insert arrangement details on page 94.

PART NUMBER DEVELOPMENT

Sample Part Number	GVLM-1007	-2	L	-1-9	P	N
Series	**GVLM-1007** = VersaLink Micro-D Hermetic Bulkhead Feedthru					
Shell Finish	**2** = Nickel **5** = gold					
Insulator Material	**L** = LCP or PPS					
Contact Layout	**1-0, 1-9, 2-0, 2-9, 2-15, 2-21, 3-9, 4-0, 4-15, 4-31, 8-9, 10-0**					
O-ring Location	**P** = Plug Side **S** = Receptacle side					
O-ring	**C** = Conductive **F** = Non-conductive (fluorosilicone) **N** = Non-conductive (nitrile) **V** = Non-conductive (viton)					



PLUG END



RECEPTACLE END

INSERT ARRANGEMENTS

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

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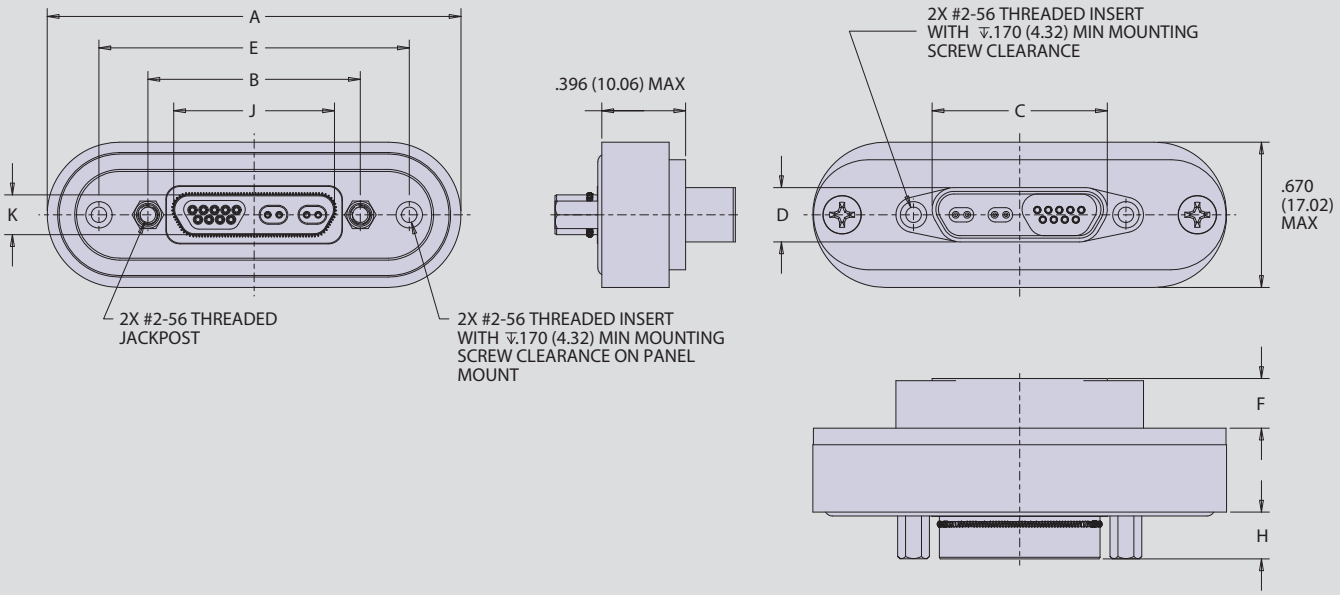
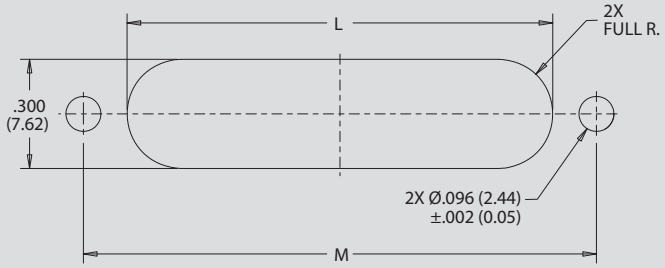
M83513 Micro-D VersaLink™ Connectors

GVLM-1007 Code-Red Light Weight Hermetic Bulkhead Feedthru



DIMENSIONS									
LAYOUT	A MAX	B	C MAX	D MAX	E	F ±0.003	H ±0.003	J MAX	K MAX
1-0	1.480 (37.59)	0.565 (14.35)	0.400 (10.16)	0.250 (6.35)	1.010 (25.65)	0.225 (5.72)	0.213 (5.41)	0.333 (8.46)	0.184 (4.67)
2-0	1.630 (41.40)	0.715 (18.16)	0.551 (14.00)	0.250 (6.35)	1.160 (29.46)	0.225 (5.72)	0.213 (5.41)	0.483 (12.27)	0.184 (4.67)
1-9	1.780 (45.21)	0.865 (21.97)	0.701 (17.81)	0.250 (6.35)	1.310 (33.27)	0.225 (5.72)	0.213 (5.41)	0.633 (16.08)	0.184 (4.67)
2-9	1.880 (47.75)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	1.410 (35.81)	0.225 (5.72)	0.213 (5.41)	0.733 (18.62)	0.184 (4.67)
4-0	1.880 (47.75)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	1.410 (35.81)	0.225 (5.72)	0.213 (5.41)	0.733 (18.62)	0.184 (4.67)
2-15	2.030 (51.56)	1.115 (28.32)	0.951 (24.16)	0.250 (6.35)	1.560 (39.62)	0.225 (5.72)	0.213 (5.41)	0.883 (22.43)	0.184 (4.67)
2-21	2.180 (55.37)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	1.710 (43.43)	0.225 (5.72)	0.213 (5.41)	1.033 (26.24)	0.184 (4.67)
3-9	2.180 (55.37)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	1.710 (43.43)	0.225 (5.72)	0.213 (5.41)	1.033 (26.24)	0.184 (4.67)
4-15	2.530 (64.26)	1.615 (41.02)	1.450 (36.83)	0.250 (6.35)	2.060 (52.32)	0.225 (5.72)	0.213 (5.41)	1.384 (35.15)	0.184 (4.67)
4-31	2.930 (74.42)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	2.460 (62.48)	0.225 (5.72)	0.213 (5.41)	1.784 (45.31)	0.184 (4.67)
8-9	2.930 (74.42)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	2.460 (62.48)	0.225 (5.72)	0.213 (5.41)	1.784 (45.31)	0.184 (4.67)
10-0	2.930 (74.42)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	2.460 (62.48)	0.225 (5.72)	0.213 (5.41)	1.784 (45.31)	0.184 (4.67)

RECOMMENDED PANEL CUTOUT



RECOMMENDED PANEL CUTOUT DIMNENSIONS		
PART NUMBER	L	M
1-0	0.780 (19.81)	1.010 (25.65)
2-0	0.930 (23.62)	1.160 (29.46)
1-9	1.080 (27.43)	1.310 (33.27)
2-9	1.180 (29.97)	1.410 (35.81)
4-0	1.180 (29.97)	1.410 (35.81)
2-15	1.330 (33.78)	1.560 (39.62)
2-21	1.480 (37.59)	1.710 (43.43)
3-9	1.480 (37.59)	1.710 (43.43)
4-15	1.830 (46.48)	2.060 (52.32)
4-31	2.230 (56.64)	2.460 (62.48)
8-9	2.230 (56.64)	2.460 (62.48)
10-0	2.230 (56.64)	2.460 (62.48)

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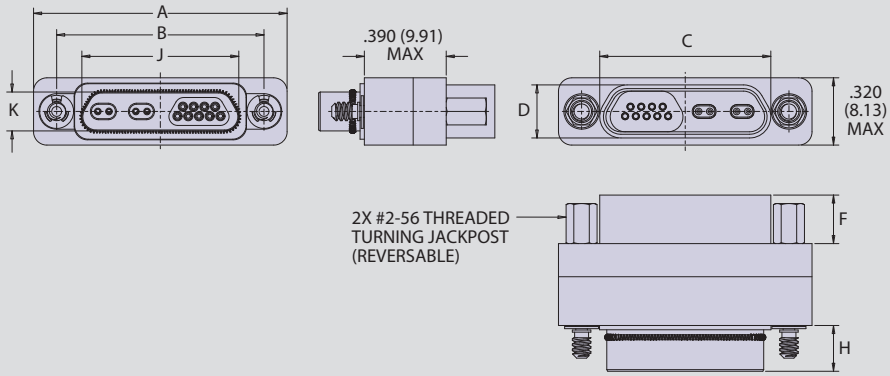
"ZERO-CROSSTALK"

M83513 Micro-D VersaLink™ Connectors

GVLM-USP1 Sav-Con for Common-Ground Design Layouts

PART NUMBER DEVELOPMENT				
Sample Part Number		**GVLM2L**	**-2-0**	**USP1**
Series	**GVLM2L** = VersaLink Micro-D, Nickel Plating, LCP Insulator			
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 Style[1]	**USP1** = SavCon®			



MATERIALS AND FINISHES

- Connector shell: aluminum alloy 6061, nickel plating
- 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 contact)
- DWV: 600 VAC sea level
- Insulation resistance: 5000 megohms minimum
- Operating temperature: -55° C to +150° C
- Mating force (contact V): (5 ounces) x (# of contacts)
- Mating force (contact M): (10 ounces) x (# of contacts)
- Electrical performance IAW Glenair specification GT-19-230
- Interface dimensions IAW MIL-DTL-83513

NOTES

1. Refer to GHS4-M-1000 for insert arrangement details on page 94.

UNISAVER DIMENSIONS

LAYOUT	A MAX	B±.003	C MAX	D MAX	F±.003	H ±.003	J MAX	K MAX
1-0	0.785 (19.94)	0.565 (14.35)	.400 (10.16)	.250 (6.35)	.225 (5.72)	.213 (5.41)	.333 (8.46)	.184 (4.67)
1-9	1.085 (27.56)	0.865 (21.97)	.701 (17.81)	.250 (6.35)	.225 (5.72)	.213 (5.41)	.633 (16.08)	.184 (4.67)
2-0	0.935 (23.75)	0.715 (18.16)	.551 (14.00)	.250 (6.35)	.225 (5.72)	.213 (5.41)	.183 (4.65)	.184 (4.67)
2-9	1.185 (30.10)	0.965 (24.51)	.801 (20.35)	.250 (6.35)	.225 (5.72)	.213 (5.41)	.733 (18.62)	.184 (4.67)
2-15	1.335 (33.91)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.225 (5.72)	.213 (5.41)	.883 (22.43)	.184 (4.67)
2-21	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.225 (5.72)	.213 (5.41)	1.033 (26.24)	.184 (4.67)
3-9	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.225 (5.72)	.213 (5.41)	1.033 (26.24)	.184 (4.67)
4-0	1.185 (30.10)	0.965 (24.51)	.801 (20.35)	.250 (6.35)	.225 (5.72)	.213 (5.41)	.733 (18.62)	.184 (4.67)
4-15	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.225 (5.72)	.213 (5.41)	1.384 (35.15)	.184 (4.67)
4-31	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.225 (5.72)	.213 (5.41)	1.784 (45.31)	.184 (4.67)
8-9	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.225 (5.72)	.213 (5.41)	1.784 (45.31)	.184 (4.67)
10-0	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.225 (5.72)	.213 (5.41)	1.784 (45.31)	.184 (4.67)

INSERT ARRANGEMENTS

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

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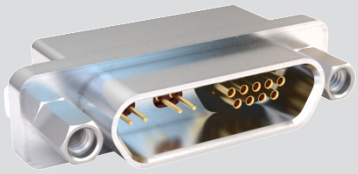
M83513 Micro-D VersaLink™ Connectors

GVLM-SP Shorting Plug for Common-Ground Design Layouts



MATERIALS AND FINISHES

- Connector shell: aluminum alloy 6061, nickel plating
- 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 / Duralco 120

PERFORMANCE SPECIFICATIONS

- Operating temperature: -55° C to +150° C
- Mating force (contact V): (5 ounces) x (# of contacts)
- Mating force (contact M): (10 ounces) x (# of contacts)
- Interface dimensions IAW MIL-DTL-83513

NOTES

1. Refer to GHS4-M-1000 for insert arrangement details on page 94.
2. Plug connector uses pin Micro-D contacts and socket VersaLink contacts. Receptacle uses socket Micro-D contacts and pin VersaLink contacts.
3. Hardware always required to ensure connector pair is fully mated when installed.

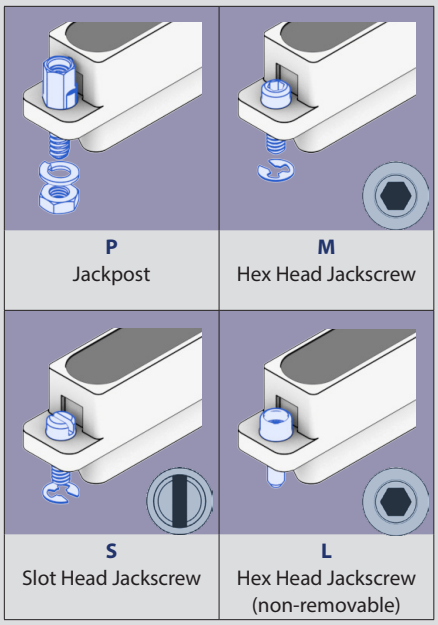
PART NUMBER DEVELOPMENT

Sample Part Number	GVLM	2	L-	2-0	P	SP	M	N
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[2]	**P** = Plug **S** = Receptacle							
Connector Style	**SP** = Shorting Plug							
Hardware[3]	**P** = Jackpost **M** = Hex Head Jackscrew **S** = Slot Head Jackscrew **L** = Hex Head Jackscrew (non-removable)							
Lanyard Option	**N** = No Lanyard							

INSERT ARRANGEMENTS

Insert Arrangements	No. of Contacts VersaLink (V)	No. of Contacts 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

HARDWARE



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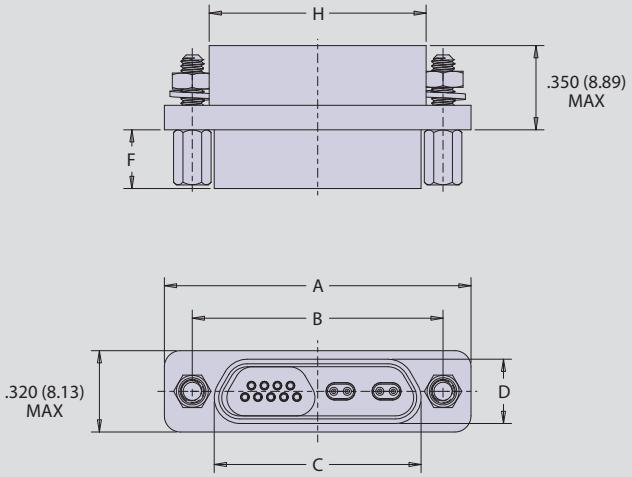
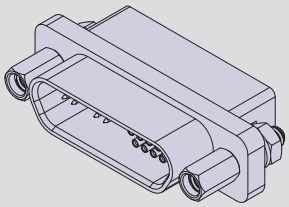
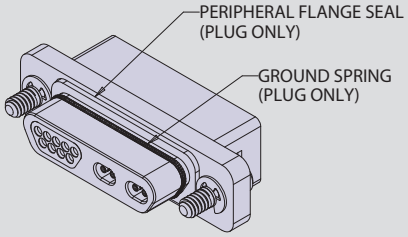
GVLM-SP Shorting Plug for Common-Ground Design Layouts

GVLM-SP SHORTING CONNECTOR





RECEPTACLE



PLUG

SHORTING PLUG DIMENSIONS						
LAYOUT	A MAX	B±.003	C MAX	D MAX	F±.003	H MAX
1-0P	0.785 (19.94)	0.565 (14.35)	0.333 (8.46)	0.184 (4.67)	0.213 (5.41)	0.445 (11.30)
1-0S	0.785 (19.94)	0.565 (14.35)	0.400 (10.16)	0.250 (6.35)	0.225 (5.72)	0.445 (11.30)
2-0P	0.935 (23.75)	0.715 (18.16)	0.483 (12.27)	0.184 (4.67)	0.213 (5.41)	0.595 (15.11)
2-0S	0.935 (23.75)	0.715 (18.16)	0.551 (14.00)	0.250 (6.35)	0.225 (5.72)	0.595 (15.11)
1-9P	1.085 (27.56)	0.865 (21.97)	0.633 (16.08)	0.184 (4.67)	0.213 (5.41)	0.745 (18.92)
1-9S	1.085 (27.56)	0.865 (21.97)	0.701 (17.81)	0.250 (6.35)	0.225 (5.72)	0.745 (18.92)
2-9P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.213 (5.41)	0.845 (21.46)
2-9S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.225 (5.72)	0.845 (21.46)
4-0P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.213 (5.41)	0.845 (21.46)
4-0S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.225 (5.72)	0.845 (21.46)
2-15P	1.335 (33.91)	1.115 (28.32)	0.883 (22.43)	0.184 (4.67)	0.213 (5.41)	0.995 (25.27)
2-15S	1.335 (33.91)	1.115 (28.32)	0.951 (24.16)	0.250 (6.35)	0.225 (5.72)	0.995 (25.27)
2-21P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	0.184 (4.67)	0.213 (5.41)	1.145 (29.08)
2-21S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	0.225 (5.72)	1.145 (29.08)
3-9P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	0.184 (4.67)	0.213 (5.41)	1.145 (29.08)
3-9S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	0.225 (5.72)	1.145 (29.08)
4-15P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	0.184 (4.67)	0.213 (5.41)	1.495 (37.97)
4-15S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	0.250 (6.35)	0.225 (5.72)	1.495 (37.97)
4-31P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
4-31S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)
8-9P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
8-9S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)
10-0P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.213 (5.41)	1.895 (48.13)
10-0S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.225 (5.72)	1.895 (48.13)

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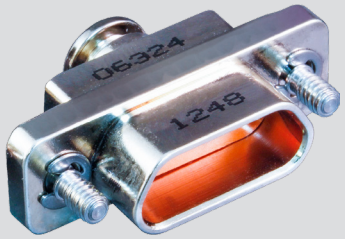
500-154 Micro-D Protective Covers for Common-Ground Design Layouts

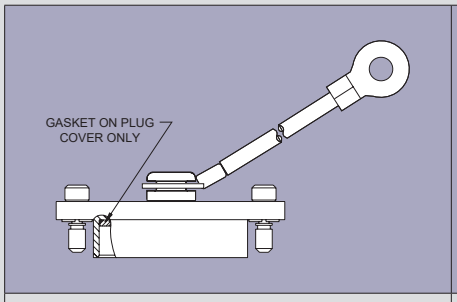


Dust Cover for High-Speed Micro-D connector

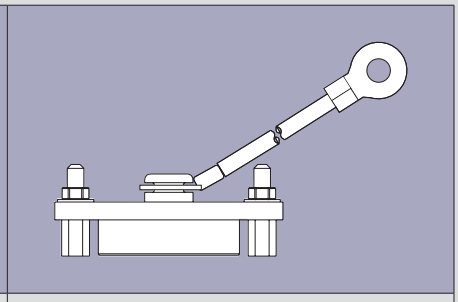
HOW TO ORDER

Sample Part Number	500-154	M	2-0	P	B	N	5	-01
Series	**500-154** = Dust Covers for Glenair High-Speed Micro-D Plug or Receptacle							
Shell Finish	**M** = Electroless Nickel **Z2** = Gold Plate							
Shell Size	**1-0**, **2-0**, **1-9**, **2-9**, **4-0**, **2-15**, **2-21**, **3-9**, **4-15**, **4-31**, **8-9**, **10-0**							
Style	**P** = Dust Cover for Plug **R** = Dust Cover for Receptacle							
Hardware Type	**B** = No Hardware (Ø.093) **M** = Hex Head Jackscrew **S** = Slotted Jackscrew **P** = Female Jackpost **M** = Hex Head Jackscrew **S** = Jackscrew **L** = Hex Head Non-Removable Jackscrew							
Attachment Type	**F** = Wire Rope, Nylon Jacket **H** = Wire Rope, Fluoropolymer Jacket **N** = No Lanyard Attachment **NB** = No Lanyard Or Attachment Boss **R** = Wire Rope, PVC Jacket **T** = Wire Rope, No Jacket **G** = Flexible Nylon Rope							
Attachment Length	Length in One Inch Increments; Example: "6" equals six inches.							
Attachment Diameter (I.D. of Ring Terminal)	**01** = .140 (3.6) **02** = .182 (4.6) **03** = .191 (4.9) **04** = .197 (5.0) **05** = .167 (4.2) **06** = .125 (3.2)							

PROTECTIVE COVER STYLES



Style P
Use With Micro-D Plugs



Style R
Use With Micro-D Receptacles

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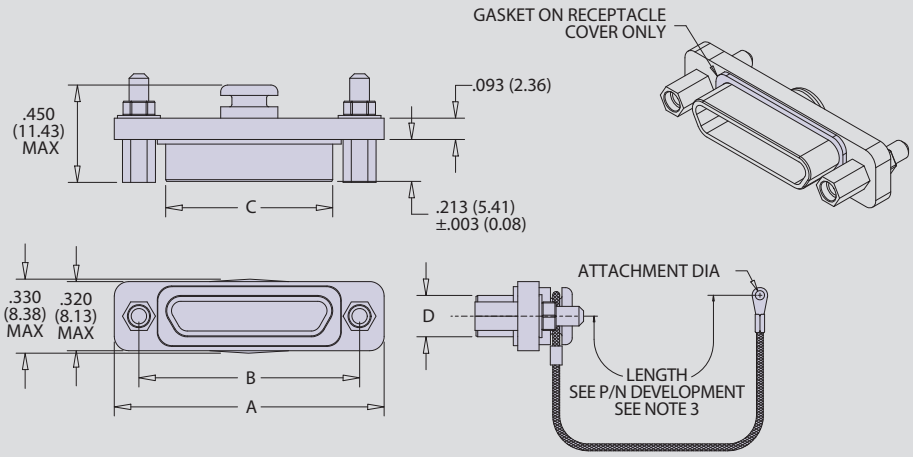
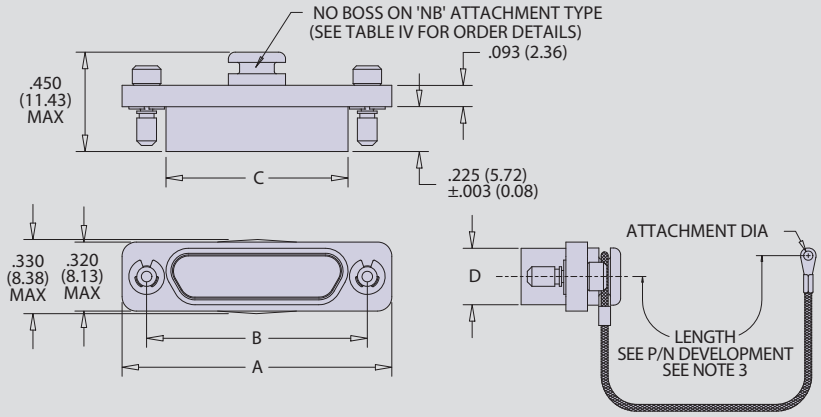
500-154 Micro-D Protective Covers Utilizing Common-Ground Design Layouts

500-148 DIMENSIONS

Style R
Dust Cover For Receptacle



Style P
Dust Cover For Plug



DUST COVER DIMENSIONS				
Layout Layout	A Max	B ±.003	C Max	D Max
1-0P	.785 (19.94)	.565 (14.35)	.333 (8.46)	.184 (4.67)
1-0S	.785 (19.94)	.565 (14.35)	.400 (10.16)	.250 (6.35)
2-0P	.935 (23.75)	.715 (18.16)	.483 (12.27)	.184 (4.67)
2-0S	.935 (23.75)	.715 (18.16)	.551 (14.00)	.250 (6.35)
1-9P	1.085 (27.56)	.865 (21.97)	.633 (16.08)	.184 (4.67)
1-9S	1.085 (27.56)	.865 (21.97)	.701 (17.81)	.250 (6.35)
2-9P, 4-0P	1.185 (30.10)	.965 (24.51)	.733 (18.62)	.184 (4.67)
2-9S, 4-0S	1.185 (30.10)	.965 (24.51)	.801 (20.35)	.250 (6.35)
2-15P	1.335 (33.91)	1.115 (28.32)	.883 (22.43)	.184 (4.67)
2-15S	1.335 (33.91)	1.115 (28.32)	.951 (24.16)	.250 (6.35)
2-21P, 3-9P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)
2-21S, 3-9S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)
4-15P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)
4-15S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)
4-31P, 8-9P, 10-0P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)
4-31S, 8-9S, 10-0S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)

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179-266 • 179-269 • 179-295 VersaLink Jackpost Kits

NOTES

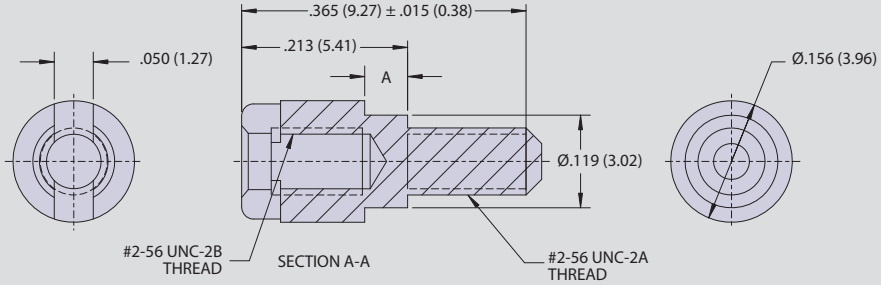
1. Kit contains two rear panel mount jackposts.
2. Material/finish: S303SE corrosion resistant steel IAW ASTM A484 and ASTM A582 / passivated.
3. Rear panel mount jackposts to be used on GHS4-RPM, GVLM-BR, GVLRPM-BR, and GVLRPM-BS connector assemblies.

DASH NUMBER

Dash No.	A ±.003 (±0.08)
1	.024 (0.61)
2	.041 (1.04)
3	.055 (1.40)
4	.086 (2.18)
5	.118 (3.00)
6	.073 (1.85)

PART NUMBER DEVELOPMENT

Sample Part Number	179-266	-3
Series	**179-266** = Versalink Rear Panel Mount Blind Hole Jackpost Kit	
Panel Thickness	**1** = .032 **2** = .047 **3** = .062 **4** = .093 **5** = .125 **6** = .080; In Inches	



NOTES

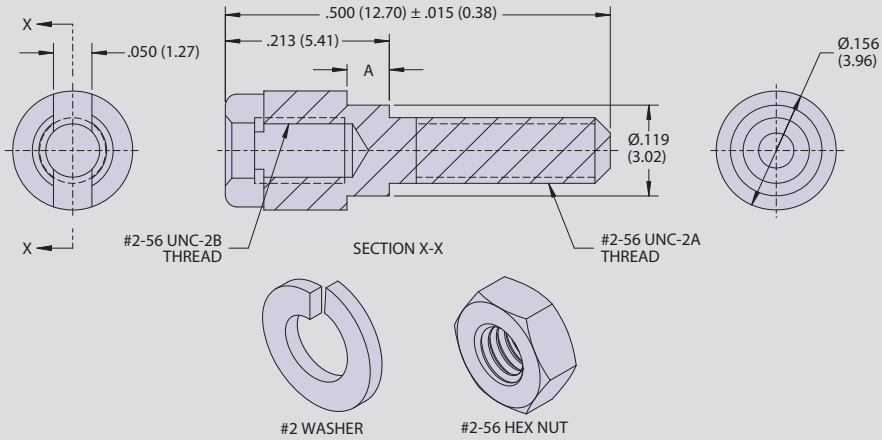
1. Kit contains two thru hole jackposts, two washers, and two hex nuts.
2. Material/finish: S303SE corrosion resistant steel IAW ASTM A484 and ASTM A582 / passivated.
3. Thru hole jackposts to be used on GHS4-M and GVLM-BS connector assemblies.

DASH NUMBER

Dash No.	A ±.003 (±0.08)
1	.024 (0.61)
2	.041 (1.04)
3	.055 (1.40)
4	.086 (2.18)
5	.118 (3.00)
6	.073 (1.85)

PART NUMBER DEVELOPMENT

Sample Part Number	179-269	-3
Series	**179-269** = Versalink Rear Panel Mount Jackpost Kit	
Panel Thickness	**1** = .032 **2** = .047 **3** = .062 **4** = .093 **5** = .125 **6** = .080; In Inches	



NOTES

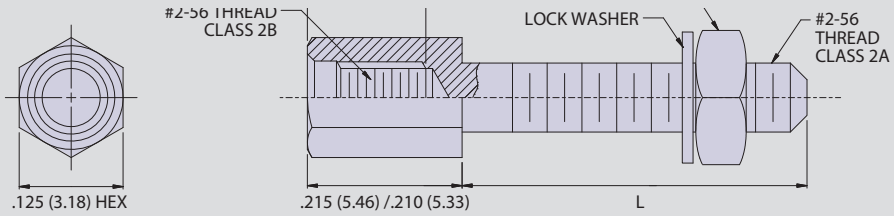
1. Kit contains two jackposts, two nuts, and two washers.
2. Material/finish: CRES/ passivated.
3. Thru-hole jackposts to be used on GHS4-M and GVLM-BS connector assemblies.

DASH NUMBER

Dash No.	L	Series
1	.288 (7.32)	GHS4-M
2	.382 (9.70)	GVLM-BR, -BS
4	.452 (11.48)	GVLM-BSS

PART NUMBER DEVELOPMENT

Sample Part Number	179-295	-2
Series	**179-295** = Versalink Jackpost Kit	
Dash No.	**1** = .288 **2** = .382 **4** = .452; in inches	



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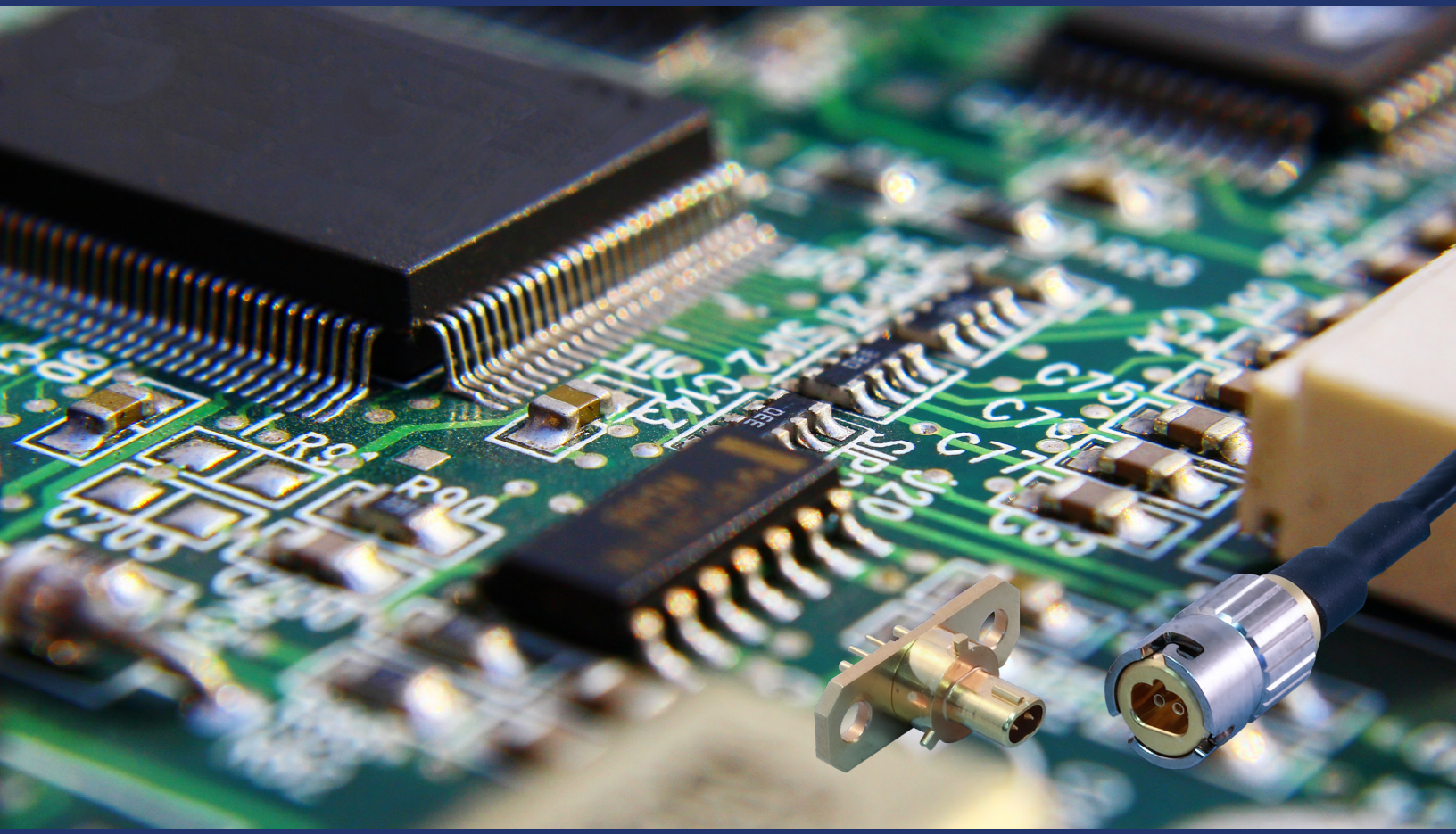
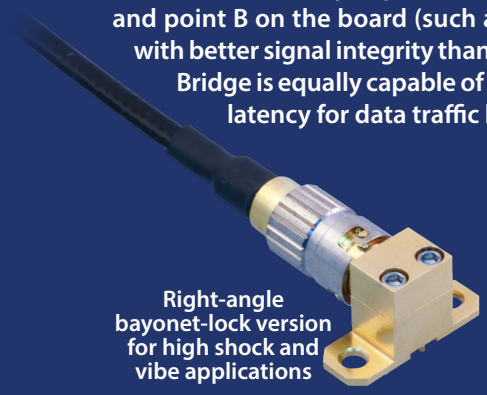
VersaLink™ BRIDGE

VersaLink Bridge: bypass high-loss board traces with a low insertion-loss and low signal-latency point-to-point twinax jumper



High-speed data transmission from one PCB to another, from one side of a backplane to another, or even from one side of a complex embedded system to another, is frequently accomplished by routing high-speed traces on a dedicated high-speed signal layer. This is a complex assignment—fraught with potential for impedance discontinuities and unacceptable insertion loss—as traces must navigate difficult and/or long routing paths around via columns and other board irregularities. The Glenair VersaLink Bridge is a high-density, micro-form factor twinax connector / jumper assembly used to bridge the gap between point A and point B on the board (such as between two SML integrated circuit chips) with better signal integrity than native board traces can ever deliver. VersaLink Bridge is equally capable of dramatically reducing insertion loss and signal latency for data traffic between an ASIC or FPGA and the I/O.



Right-angle bayonet-lock version for high shock and vibe applications

See Glenair application note AN0011 for more information on this advantage

- **Small footprint, high-density solution**
- **Versatile solder-mount or screw-mount board termination**
- **100 Ohm differential twinax**
- **Push-pull for quick disconnect mating or bayonet-lock for MIL-DTL-83513 shock and vibration applications**
- **Keyed polarization prevents mis-mating**
- **Low insertion loss and low signal latency for high datarate board transmissions**

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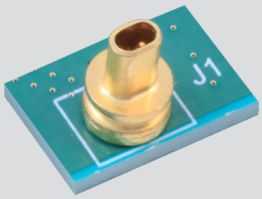
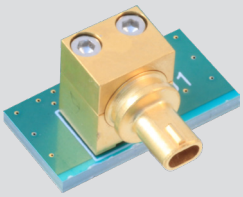
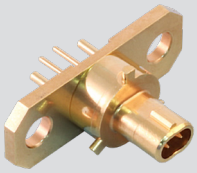
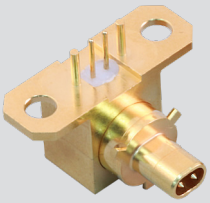
VersaLink™ BRIDGE	VersaLink Bridge Board Level Connectors Series Overview	Page 169
	GHS4-853-0001 VersaLink Bridge Pre-terminated Jumper	Page 170
	853-051 Quick Disconnect, Socket Plug.	Page 171
	853-052 Quick Disconnect, Straight Board, Pin Jack	Page 172
	853-054 Quick Disconnect, Right Angle, Pin Board Level Jack	Page 173
	853-064 Bayonet, Socket Plug	Page 174
	853-065 Bayonet, Straight PCB Mount, Pin Contact Jack	Page 175
	853-067 Bayonet, Right Angle PCB Mount, Pin Contact Jack	Page 176

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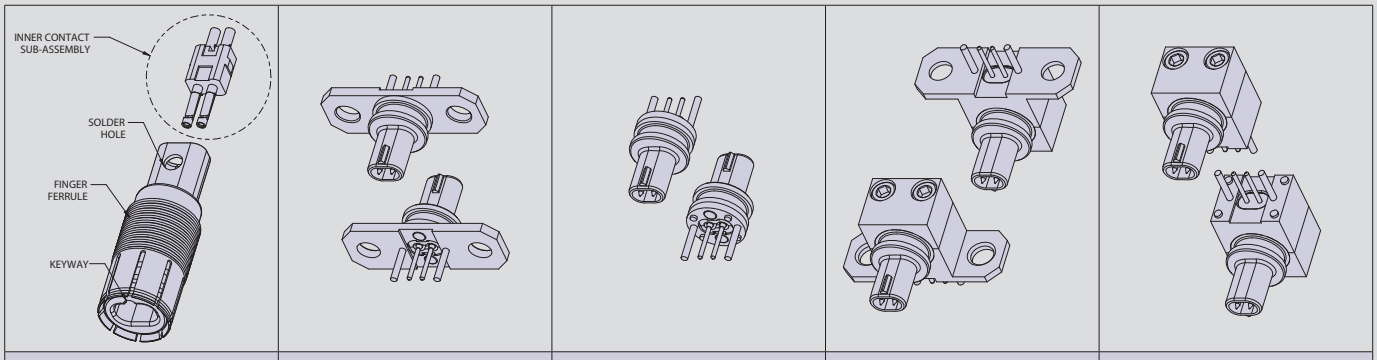
VersaLink™ Bridge Board Connectors

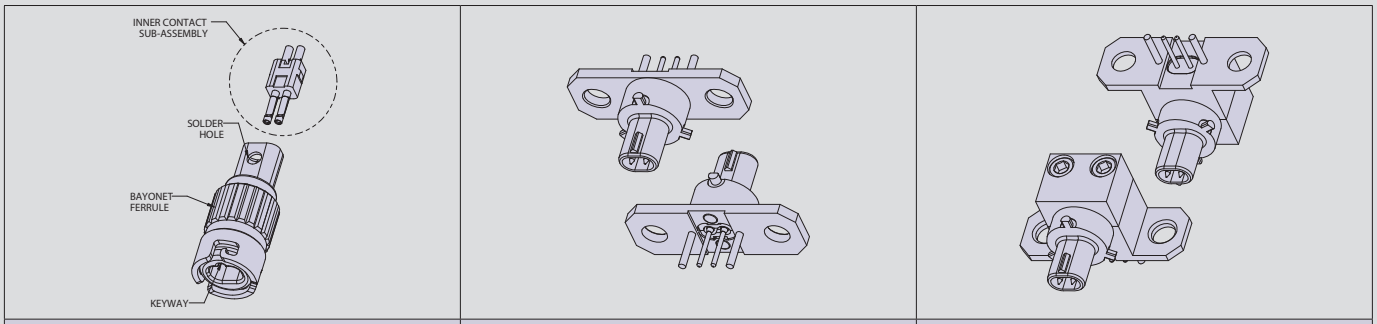
Overview of Differential twinax "Bypass" Connector and Jumper Assemblies

AVAILABLE CONFIGURATIONS: QUICK-DISCONNECT



Quick-disconnect plug	QDC Jack board pin straight screw mount	QDC Jack board pin straight solder mount	QDC Jack board pin right-angle screw mount	QDC Jack board pin right-angle solder mount

AVAILABLE CONFIGURATIONS: BAYONET-LOCK



Bayonet-lock plug	Bayonet-lock Jack board pin straight screw mount	Bayonet-lock Jack board pin straight screw mount

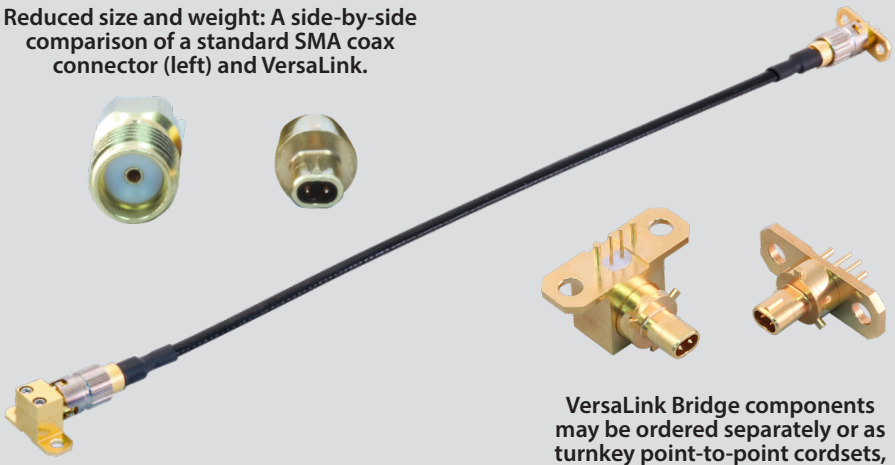
RECOMMENDED CABLES

Dash No	Cable P/N	Cable Construction	Wire Gauge	Max Overall Size	Crimp Die	Assembly Instructions
-01	963-069-26	Double Shielded Parallel Pair	26	.133 x .083	859-205	AI85153
-02	963-068-26	Double Shielded Twisted Pair	26	.133 x .083	859-205	AI85153

MATERIALS AND FINISHES

- Contacts: Copper alloy / gold
- Insulators: Superior rigid dielectric
- Body: Copper alloy / gold
- Ferrules (plugs): Copper alloy / electroless nickel
- Spring (plugs): Stainless steel
- Electrical parameters (for Board Connectors)
- Impedance: 100 Ohms
- DWV: 500 RMS
- IR: 5000 megaohms min. at 200 VDC

Reduced size and weight: A side-by-side comparison of a standard SMA coax connector (left) and VersaLink.



VersaLink Bridge components may be ordered separately or as turnkey point-to-point cordsets, consult factory.

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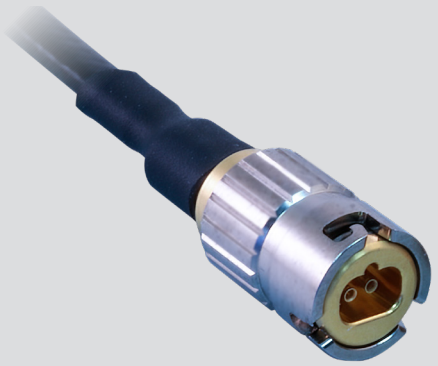
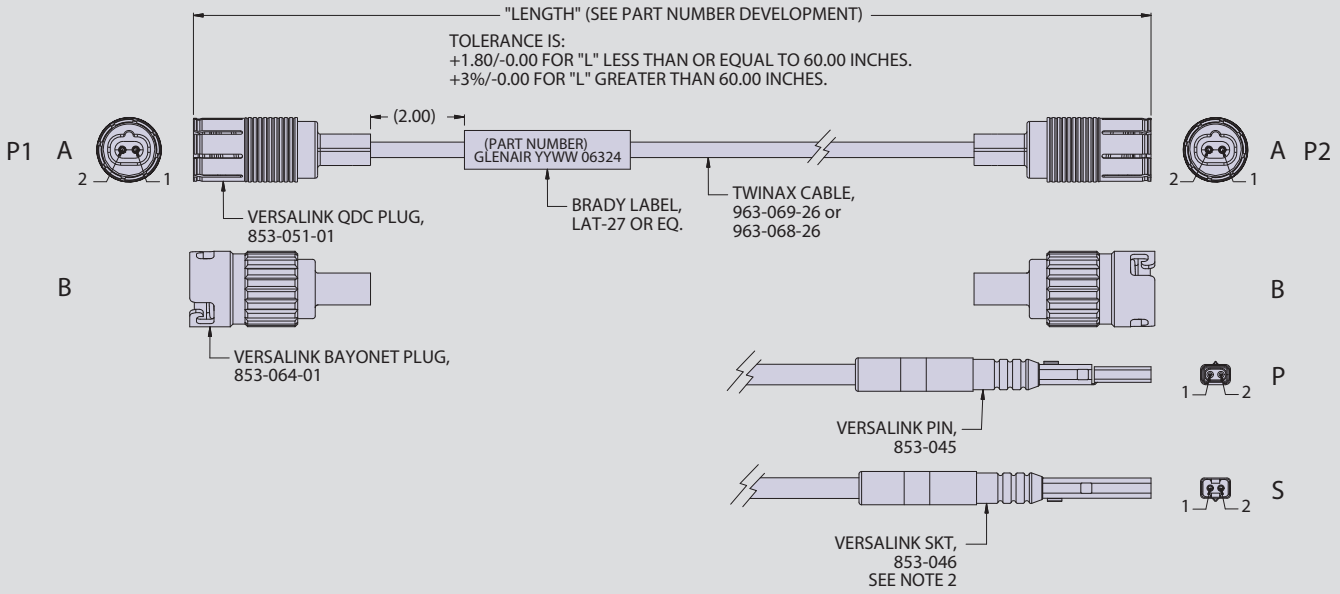
GHS4-853-0001 VersaLink Bridge Cable Assembly

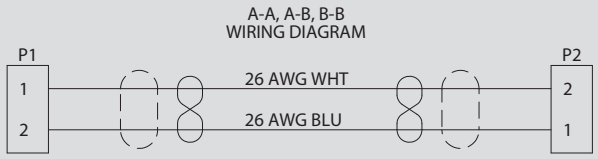


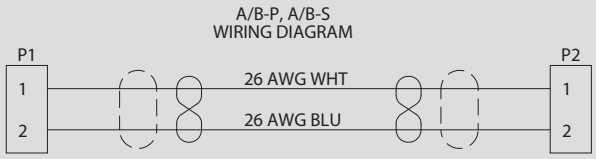
PART NUMBER DEVELOPMENT					
Sample Part Number	**GHS4-853-0001**	**-A**	**A**	**-1**	**-12**
Series	**GHS4-853-0001** = VersaLink Bridge Cable Assembly				
P1 End	**A** = VersaLink QDC Plug **B** = VersaLink Bayonet Plug				
P2 End	**A** = VersaLink QDC Plug **B** = VersaLink Bayonet Plug **P** = VersaLink Pin **S** = VersaLink Socket **N** = No Connector				
Cable Type	**-01** = 963-069-26 **-02** = 963-068-26				
Cable Length	Length in inches; i.e. 12 equals 12 inches				

RECOMMENDED CABLES

Dash No	Cable P/N	Cable Construction	Wire Gauge	Max Overall Size
-1	963-069-26	Double Shielded Parallel Pair	26	.133 x .083
-2	963-068-26	Double Shielded Twisted Pair	26	.133 x .083







NOTES

1. 100% electrical test, continuity and IR 200 megohms min.
2. When 'S' is selected for P2, key will be flipped to maintain 1 to 1 pinout.

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853-051 Quick Disconnect, Socket Plug

PART NUMBER DEVELOPMENT			
Sample Part Number		**853-051**	**-01**
Series	**853-051** = Quick Disconnect, Socket Plug		
Dash No	**-01** = 963-069-26 cable **-02** = 963-068-26 cable		

RECOMMENDED CABLES

Dash No	Cable P/N	Cable Construction	Wire Gauge	Max Overall Size	Crimp Die	Assembly Instructions
-01	963-069-26	Double Shielded Parallel Pair	26	.133 x .083	859-205	AI85153
-02	963-068-26	Double Shielded Twisted Pair	26	.133 x .083	859-205	AI85153

MATERIALS AND FINISHES

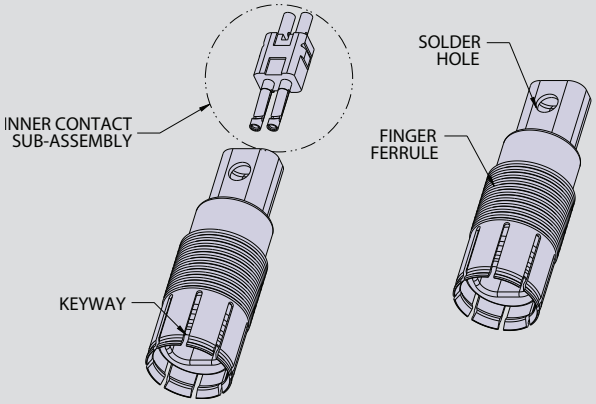
- Contacts: copper alloy/gold
- Insulators: superior rigid dielectric
- Body: copper alloy/gold
- Finger ferrule: copper alloy/electroless nickel
- Spring: stainless steel

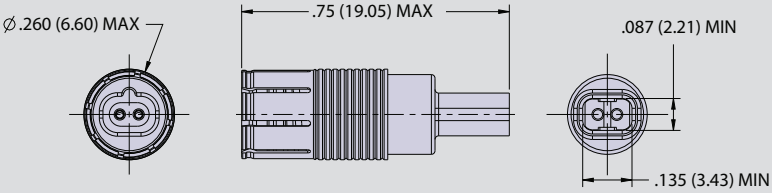
PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to 150°C
- Mates with 853-052 and 853-054

NOTES

1. Contact factory to inquire about use with other cables.
2. Crimp tools:
   - » Inner contacts: 809-464
   - » Die: 859-205





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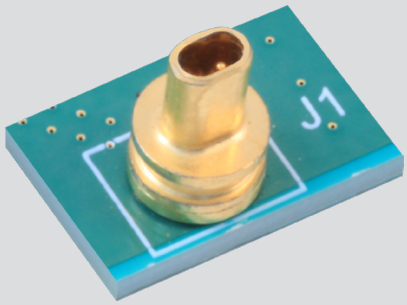
853-052 Quick Disconnect, Straight Board, Pin Jack



PART NUMBER DEVELOPMENT					
Sample Part Number		**853-052**	**-1**	**G**	**-.140**
Series	**853-052** = Quick Disconnect, Straight Board Level, Pin Jack				
Dash No	**-1** = Solder Mount **-2** = Screw Mount				
PC Tail Finish	**S** = Solder Dipped in 63/37 Tin-lead **G** = Gold Plated				
PC Tail Length	Length in inches +.025 (0.64) /-.000 (0.00) **-.155, -.140, -.110, -.080**				

MATERIALS AND FINISHES

- Contacts: copper alloy/gold
- Insulators: superior rigid dielectric
- Body: copper alloy/gold

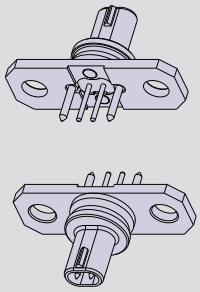
PERFORMANCE SPECIFICATIONS

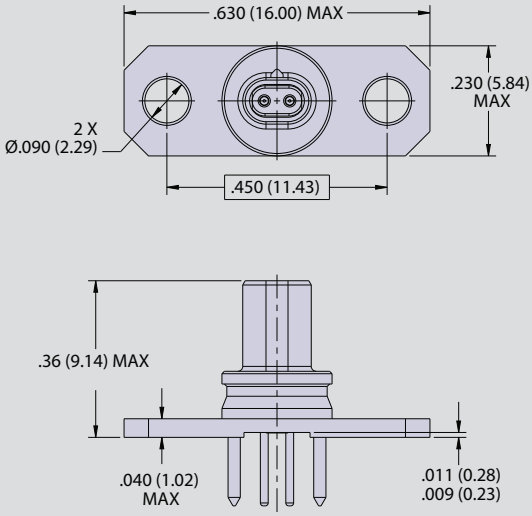
- Impedance: 100 Ohms
- DWV: 500 Vrms
- IR: 5000 megaOhms min at 200 Vdc
- Operating temperature: -65°C to 150°C
- Mates with 853-051

NOTES

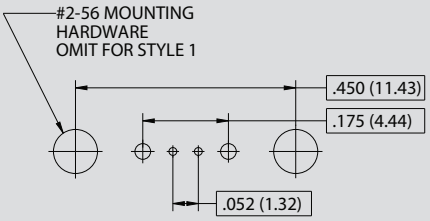
1. See application note AN0005 for optimal PCB layout.

853-052 VERSALINK QDC SCREW MOUNT JACK



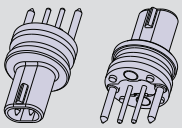


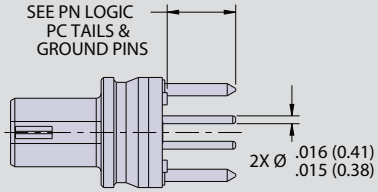
PCB LAYOUT

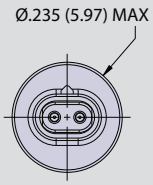


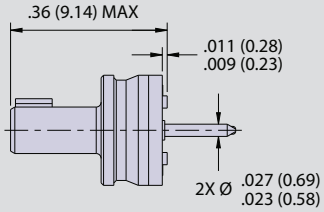
SEE NOTE 1

853-052 VERSALINK QDC SOLDER MOUNT JACK









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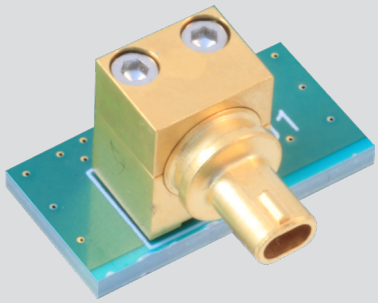
853-054 Quick Disconnect, Right Angle, Pin Board Level Jack



PART NUMBER DEVELOPMENT				
Sample Part Number	**853-054**	**-1**	**G**	**-140**
Series	**853-054** = Quick Disconnect, Right Angle, Board Level, Pin Jack			
Style	**-1** = Solder Mount **-2** = Screw Mount			
PC Tail Finish	**S** = Solder Dipped in 63/37 Tin-Lead **G** = Gold Plated			
PC Tail Length	Length in inches .035 (0.89)/.000 (0.00) **-.155, .140, .110, .080**			

MATERIALS AND FINISHES

- Contacts: copper alloy/gold
- Insulators: superior rigid dielectric
- Body: copper alloy/gold

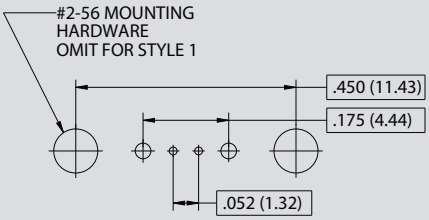
PERFORMANCE SPECIFICATIONS

- Impedance: 100 Ohms
- DWV: 500 Vrms
- IR: 5000 megaOhms min at 200 Vdc
- Operating temperature: -65°C to 150°C
- Mates with 853-051

NOTES

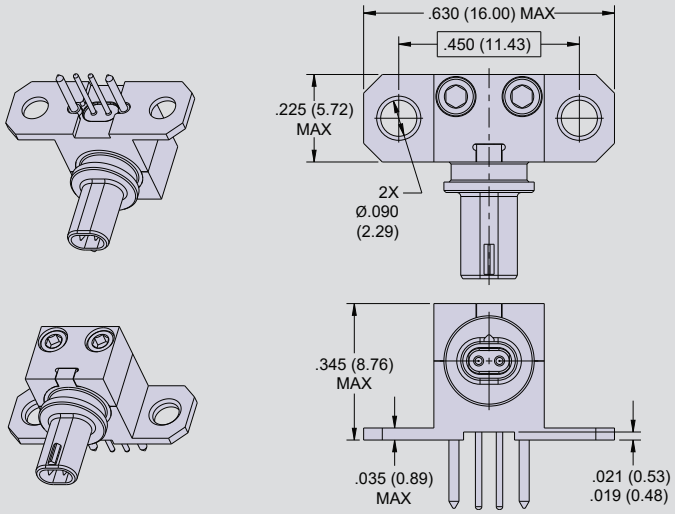
1. See application note AN0005 for optimal PCB layout.

PCB LAYOUT

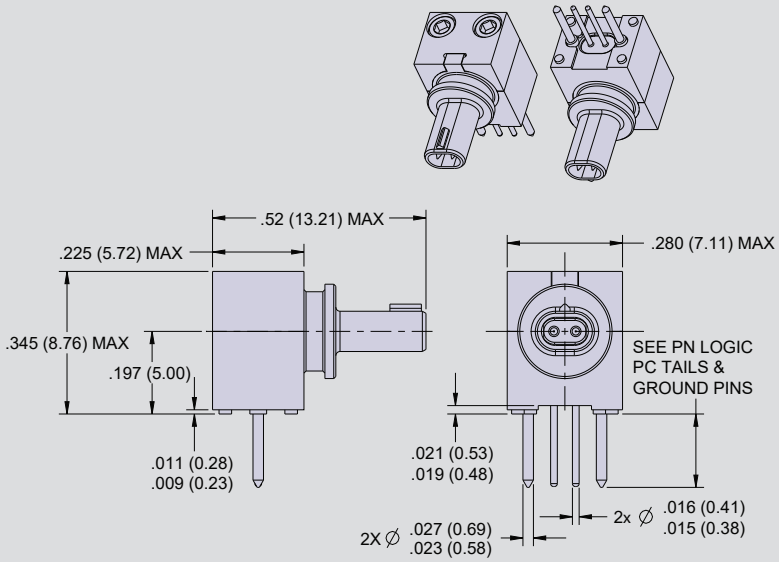


SEE NOTE 1

853-054 VERSALINK QDC SCREW MOUNT JACK



853-054 VERSALINK QDC SOLDER MOUNT JACK



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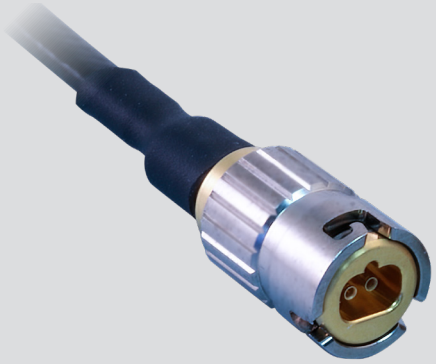
Dimensions in Inch (millimeter) are subject to change without notice.

853-064 Bayonet, Socket Plug



PART NUMBER DEVELOPMENT		
Sample Part Number	**853-064**	**-01**
Series	**853-064** = Bayonet Coupling, Board Level Socket Plug	
Dash No	**-01** = 963-069-26 **-02** = 963-068-26	

RECOMMENDED CABLES

Dash No	Cable P/N	Cable Construction	Wire Gauge	Max Overall Size	Crimp Die	Assembly Instructions
-01	963-069-26	Double Shielded Parallel Pair	26	.133 x .083	859-205	AI85153
-02	963-068-26	Double Shielded Twisted Pair	26	.133 x .083	859-205	AI85153

MATERIALS AND FINISHES

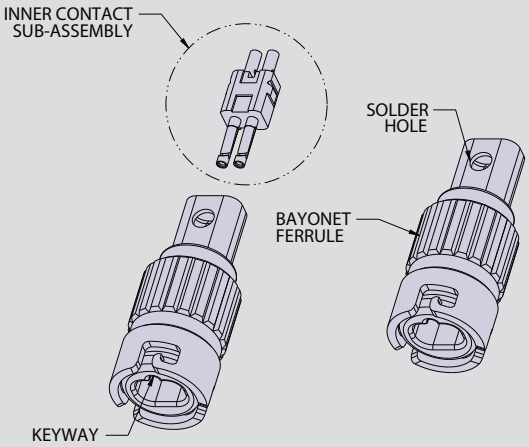
- Contacts: copper alloy/gold
- Insulators: superior rigid dielectric
- Body: copper alloy/gold
- Coupling nut: copper alloy/electroless nickel
- Spring: stainless steel

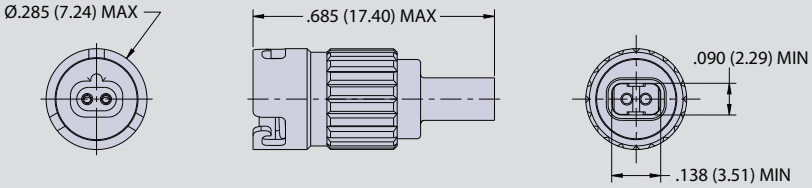
PERFORMANCE SPECIFICATIONS

- Operating temperature: -65°C to 150°C
- Mates with 853-065 and 853-067

NOTES

1. Contact factory to inquire about use with other cables.
2. Crimp tools:
   - » Inner contacts: 809-464
   - » Die: 859-205





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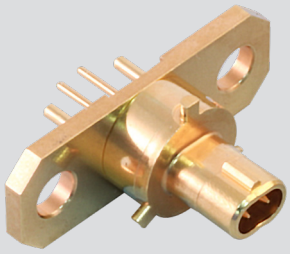
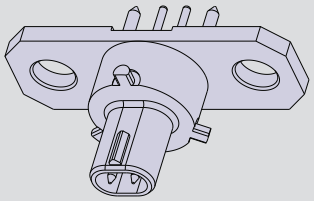
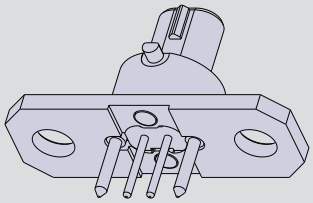
VersaLink™ Bridge Board Connectors

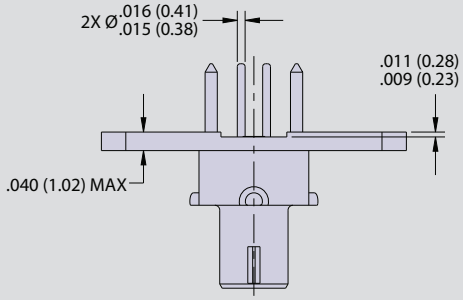
853-065 Bayonet, Straight PCB Mount, Pin Contact Jack

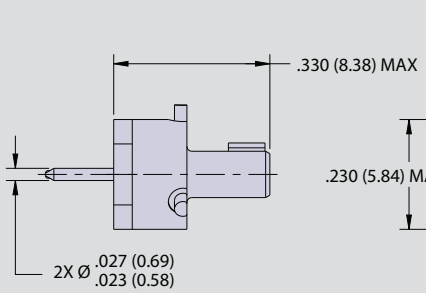


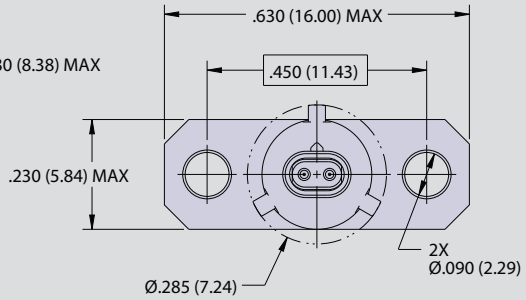
PART NUMBER DEVELOPMENT				
Sample Part Number		**853-065**	**-G**	**-.140**
Series	**853-065** = Bayonet, Straight Board Level, Pin Jack			
PC Tail Finish	**-S** = Solder Dipped in 63/37 Tin-lead **-G** = Gold Plated			
PC Tail Length	Length in inches +.025 (0.64) /-.000 (0.00) **-.155, -.140, -.110, -.080**			











MATERIALS AND FINISHES

- Contacts: copper alloy/gold
- Insulators: superior rigid dielectric
- Body: copper alloy/gold

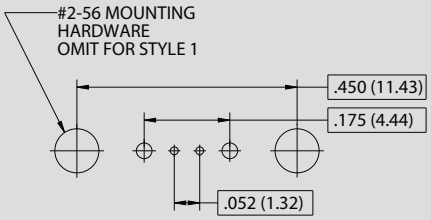
PERFORMANCE SPECIFICATIONS

- Impedance: 100 Ohms
- DWV: 500 Vrms
- IR: 5000 megaOhms min at 200 Vdc
- Operating temperature: -65°C to 150°C
- Mates with 853-064

NOTES

1. See application note AN0005 for optimal PCB layout.

PCB LAYOUT



SEE NOTE 1

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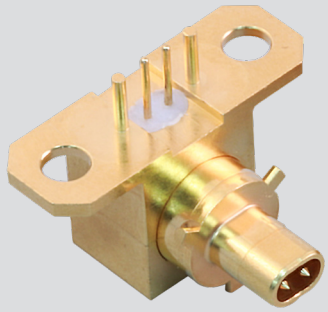
853-067 Bayonet, Right Angle PCB Mount, Pin Contact Jack



PART NUMBER DEVELOPMENT				
Sample Part Number		**853-067**	**-G**	**-.140**
Series	**853-067** = Bayonet, Right Angle Board Level, Pin Jack			
PC Tail Finish	**S** = Solder Dipped in 63/37 Tin-lead **G** = Gold Plated			
PC Tail Length	Length in inches .035 (0.89)/.000 (0.00) **.155, .140, .110, .080**			

MATERIALS AND FINISHES

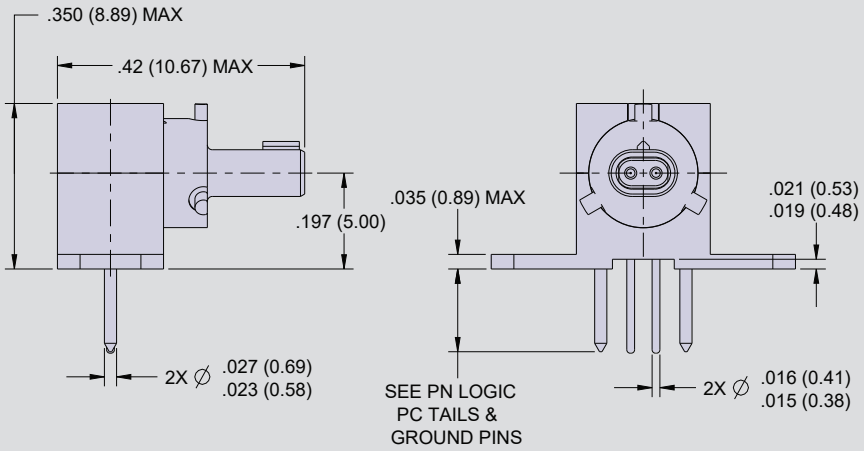
- Contacts: copper alloy/gold
- Insulators: superior rigid dielectric
- Body: copper alloy/gold

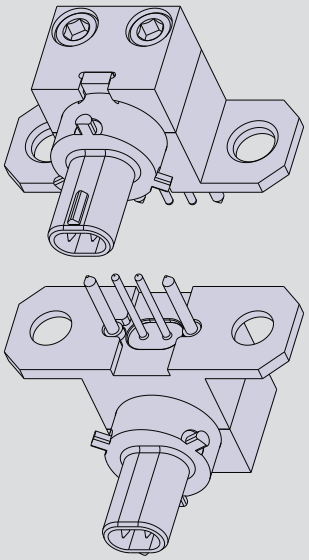
PERFORMANCE SPECIFICATIONS

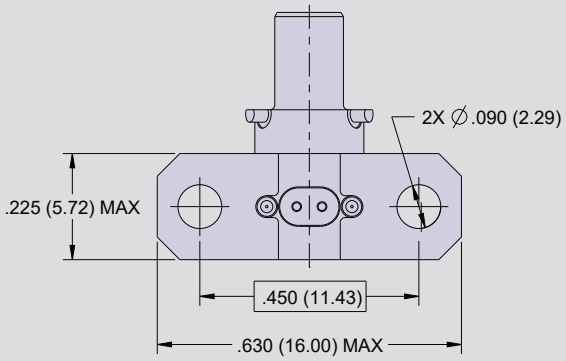
- Impedance: 100 Ohms
- DWV: 500 Vrms
- IR: 5000 megaOhms min at 200 Vdc
- Operating temperature: -65°C to 150°C
- Mates with 853-064

NOTES

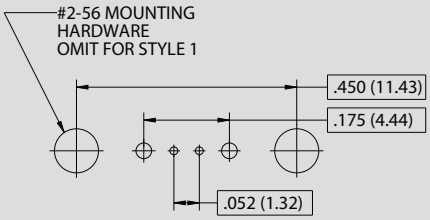
1. See application note AN0005 for optimal PCB layout.







PCB LAYOUT



SEE NOTE 1

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GLENAIR MODULAR
HIGH-SPEED
MICRO-D (GMMD)

GMMD: The modular Micro-D differential twinax or RF coax high-speed solution. Combo design accommodates both high data-rate, RF, and standard low-speed signal requirements in a single connector package.

The Series GMMD is an innovative modular Micro-D connector for RF coax and high-speed differential datalink applications. The unique micro miniature design of the GMMD also accommodates standard analog signal and power contacts, making it the most versatile Micro-D rectangular in the industry. GMMD leverages Glenair Signature Micro-D and Nano TwistPin contact inserts, as well as ultra small form-factor differential twinax modules delivering 18 Gb/second per pair and RF to 20 GHz. GMMD is supplied as factory-terminated pigtails, point-to-point jumpers, and SMT receptacles for easy PCB mounting.

Glenair Signature Twinax contact modules (left) are fully shielded for outstanding cross-talk isolation and signal integrity. Standard Micro-D TwistPin contact modules deliver reliable performance IAW MIL-PRF-83513

RoHS MATERIALS

- **Low crosstalk, high bandwidth twinax modules** for 18Gb/s per pair and RF up to 20GHz
- **Cable and 90° PCB configurations** for matched 100 Ohm differential impedance performance from I/O to board
- **SMT receptacles** for easy PCB mounting
- **Combo layouts** include twinax, 50 and 75Ω coax, mixed signal and power
- **TwistPin contacts** for low resistance and high shock and vibe performance
- **Standard Micro-D** shell sizes and hardware

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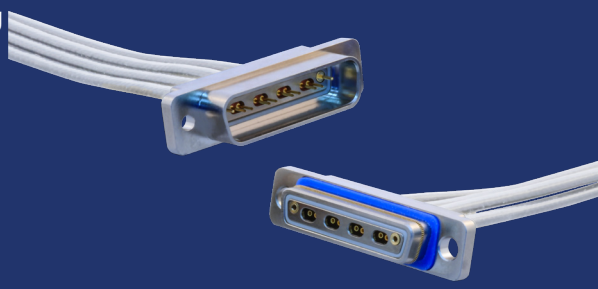
SpeedLine™

High-Speed Protocol Cables

Glenair supplies a wide range of high-speed shielded twisted pair cabling for use with El Ochito®, VersaLink™, SpeedMaster™, and other of our shielded high-speed connector and contact technologies. High flexibility and high-density reduced-weight cable designs are a specialty. Glenair offers turnkey Cat 8 Ethernet, SuperSpeed USB4, HDMI, SATA, and other solutions for today's most mission-critical application platforms.

Glenair SpeedLine cables are optimized for signal integrity, weight savings, flexibility, and durability. In addition, these aerospace and space-grade cables have been optimized for ease of termination and across-the-board compatibility with our broad range of high-speed contact modules and connectors.



SpeedLine™ high-speed cable assemblies such as this VersaLink cordset for DisplayPort 2.0 and USB4 are supplied as turnkey tested solutions, ready for immediate use

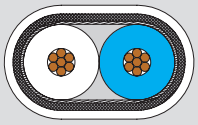
- Cat 8 Ethernet, SuperSpeed USB4, HDMI, SATA, and other solutions for mission-critical applications
- Individual foil shielding around each data pair for reduced crosstalk and attenuation
- Up to 200°C high-temperature-rated cable
- Skydrol resistant, RoHS compliant versions
- Ethernet versions meet ANSI/TIA 568-C.2 Category 6A requirement up to 262 feet/80 meters
- Low-skew SuperSpeed USB data pairs have individual braided shields
- LSZH jacketing options including Duralectric Light and polyurethane

SpeedLine™ high-speed protocol cables

shielded differential data-pair cables for:

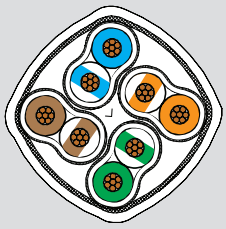
- USB
- SATA
- PCIe
- HDMI
- DisplayPort
- High-datarate Ethernet

963-069-26



- 100 Ohm #26 AWG flat pair shielded cable for use with VersaLink™ connectors
- Performance up to 18 GHz
- -65 to +200 °C rated operating temperature
- FEP jacket, FEP insulation
- Dual shields: Aluminized Kapton tape and #44 AWG silver-plated copper

963-080-26



- 100 Ohm twisted pair shielded cable.
- -65 to +200 °C rated operating temperature
- FEP jacket, FEP insulation
- Dual shields: Aluminized Polyimide tape and silver-plated copper

Glenair signature SpeedLine high-speed protocol cables are designed for direct application and use with VersaLink™, SpeedMaster™, El Ochito®, and other of our lightweight, small form-factor high-speed protocol connectors.

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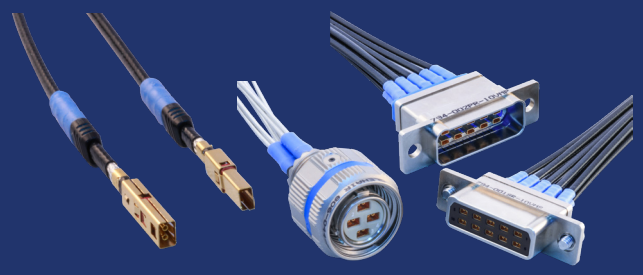
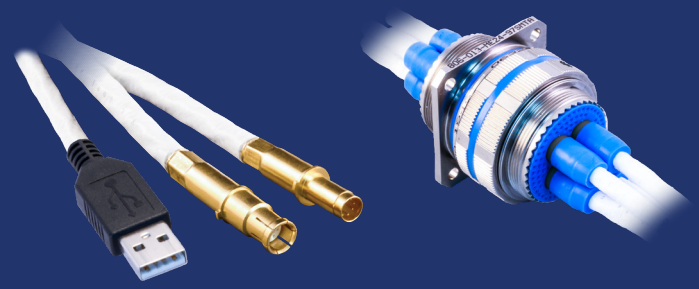
Glenair Signature SpeedLine™ Cables, Shielded Contacts, and Connectors: a complete ecosystem of interconnect technologies for high-speed protocol applications in rugged aerospace-grade systems

Glenair supplies a complete ecosystem of military/aerospace-grade interconnect technology in support of every popular high-speed protocol. Downselect typically begins with protocol identification in accordance with application data rate requirements and standards. For each high-speed protocol, Glenair can supply an exactingly-designed, tested, and qualified SpeedLine™ differential data cable, shielded high-speed contact insert, and a signature range of ruggedized, environmentally-sealed connector housings.

SPEEDLINE HIGH-SPEED PROTOCOL CABLE ASSEMBLIES



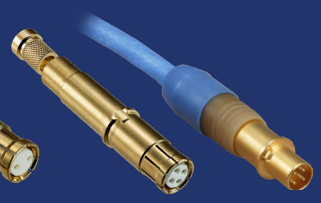
Glenair SpeedLine high-speed cable assemblies for VersaLink™ include factory-terminated pigtails and double-ended jumpers as well as turnkey Series 806 Mil-Aero and Series 794 Micro-Crimp high-density solutions



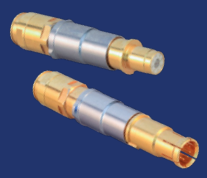
Glenair SpeedLine high-speed cable assemblies for El Ochito® include single- and double-ended jumpers, commercial protocol connector jumpers, and integrated Series 806 Mil-Aero, SuperNine®, and Series 792 Micro-Crimp

SPEEDLINE-COMPATIBLE HIGH-SPEED DIFFERENTIAL-PAIR SHIELDED CONTACTS

Size #8 differential twinax contacts

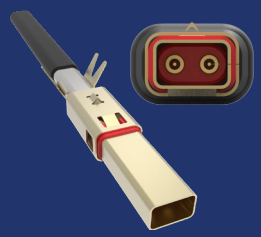


Size #8 quadrax contacts



Size #8 El Ochito octaxial

Size #8 SpeedMaster octaxial



VersaLink differential twinax

SPEEDLINE COMPATIBLE GLENAIR SIGNATURE HIGH-SPEED CONNECTORS

Series 806 Mil-Aero high-speed El Ochito micro miniature

SuperNine MIL-DTL-38999 "Better than QPL" high-speed El Ochito

Speed-Master™ modular 10G+ Ethernet (shown in SuperNine® packaging)

Series 792 Micro-Crimp precision-machined high-speed El Ochito

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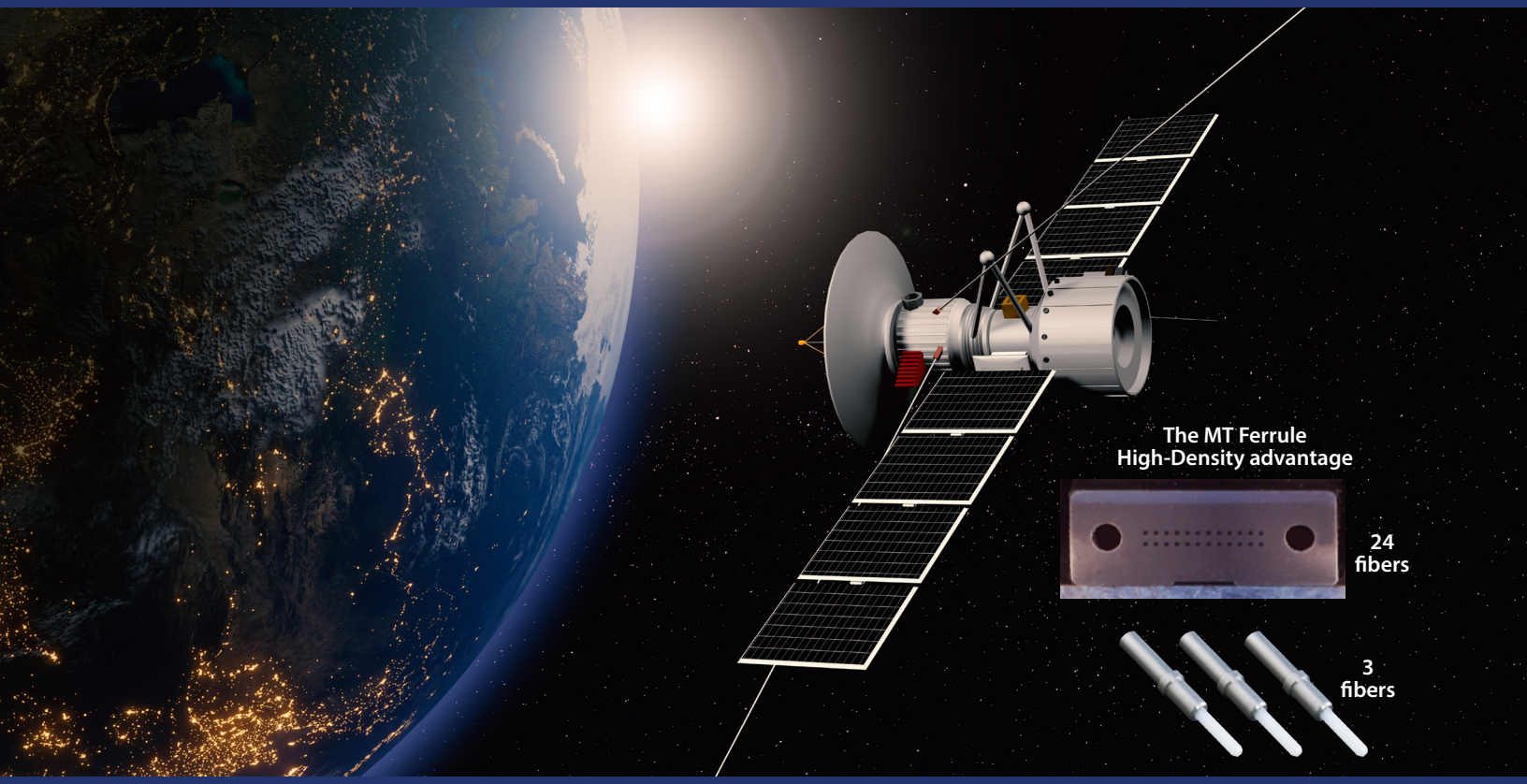
COMPATIBLE WITH

FIBER KING
FIBER OPTIC CABLES

Rugged Fiber Optic CONNECTORS

Rugged High-Density PRIZM® MT Expanded Beam and MT Elite PC Fiber Optic Systems



Easy-to-use, harsh environment, super high-density PRIZM® MT expanded-beam fiber optic assemblies in Glenair ruggedized I/O and backplane connector packaging

ALSO AVAILABLE: MT ELITE® PHYSICAL CONTACT SINGLEMODE AND MULTIMODE CONNECTOR AND CABLE SOLUTIONS

- **Glenair is qualified by US Conec to terminate one- and two-row PRIZM® MT ferrules for both ribbon and round fiber optic cable**
- **Available as turnkey, factory-terminated PRIZM® MT expanded beam assemblies—fully ruggedized for harsh air and space applications**
- **Highest-density fiber optic solution with reliable, repeatable optical performance**
- **Outstanding stability under shock and vibration conditions**
- **PRIZM® MT provides outstanding tolerance to debris contamination**

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RUGGED HIGH-DENSITY

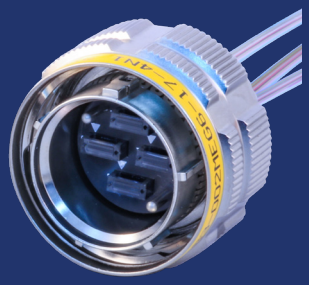
MT Ferrule Expanded Beam

Glenair US and UK are qualified by US Conec to terminate 1 and 2 row PRIZM® MT and ferrules for ribbon and round cable fiber

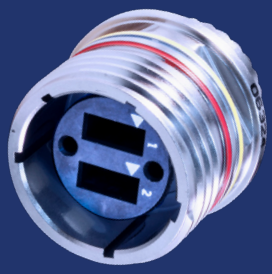
ABOUT MT FERRULE FIBER OPTICS

PRIZM® MT is a monolithic optical fiber ferrule that integrates microlenses and mechanical alignment features into a single component. The design provides low insertion loss and return loss for up to 32 fibers and is optimally resistant to debris contamination. Glenair supplies the PRIZM MT ferrule in factory-terminated cable assemblies for both inside-the-box as well as environmental point-to-point applications. Ruggedized aerospace-grade I/O and backplane connectors are also available for use with standard MT Elite® physical contact (PC) ferrules. MT Elite compatible connectors and ferrule kits are ordered separately for complete convenience in the implementation of both singlemode and multimode fiber optic datalinks.

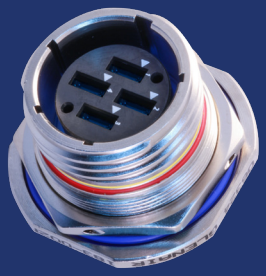
SUPERNINE MT CONNECTOR CONFIGURATIONS



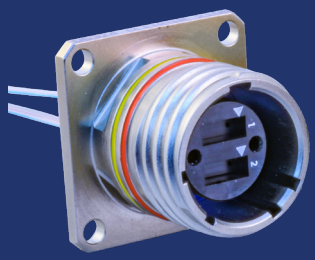
Cable Plug



In-Line Receptacle

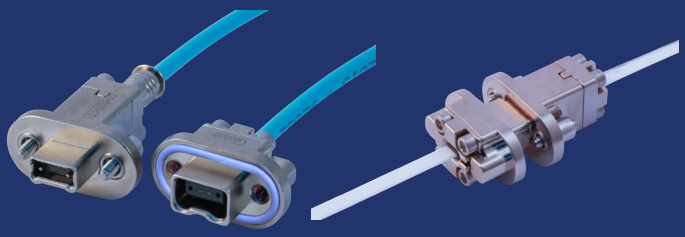


Jam-Nut Receptacle



Panel-Mount Receptacles

SERIES 79 MT CONNECTOR CONFIGURATIONS



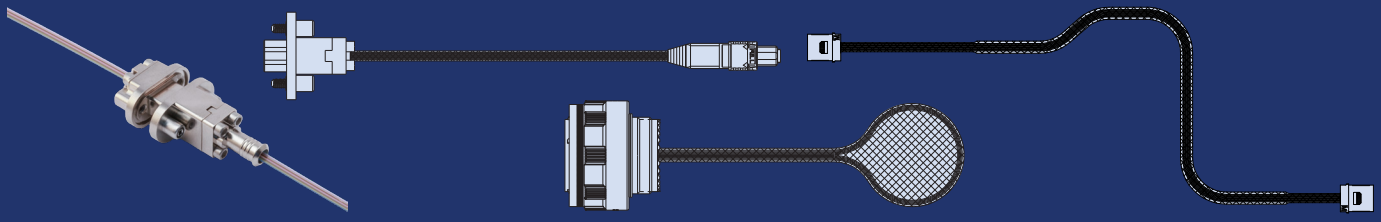
Plugs and receptacles with integrated banding porch, retaining plates, or EMI gasket for ribbon or round fiber media supporting both MT Elite® and PRIZM® MT ferrules.

VITA 66 STYLE MT CONNECTORS

VITA 66.1 and 66.4 format. Discrete backplane connectors and MT ferrule assemblies.

CATALOG FAST-TURNAROUND "ASAP" MT OPTICAL FLEX JUMPERS AND CABLE ASSEMBLIES

Glenair supplies—as a commercial off-the-shelf product—point-to-point optical flex jumpers with MT Elite and PRIZM MT optical ferrules. Available configurations include simple MT-to-MTP jumpers in straight or curved profiles, circular and rectangular I/O connectors with MT optical fiber pigtails, as well as special optical loop assemblies. A complete range of multimode and singlemode fiber in popular sizes, plus radiation-hardened fiber for earth orbit applications. Series 79- and SuperNine-to-MT ribbon fiber breakout cable assemblies are also available.



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