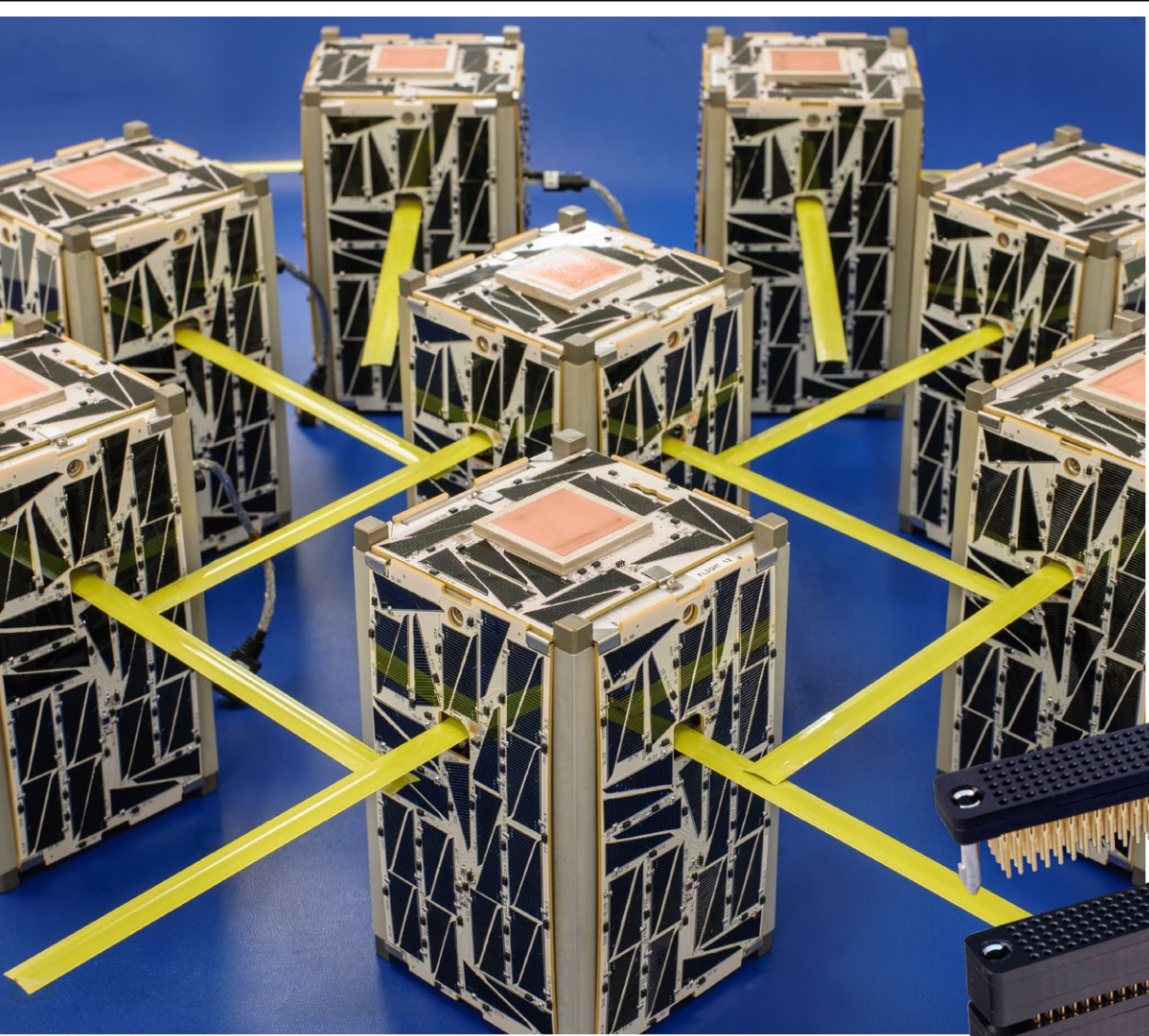




.062" PITCH COMPLIANT PIN

HD STACKER™

RUGGED BOARD-TO-BOARD STACKABLE CONNECTORS

APRIL 2018



HDSTACKER™

High-density, solder-free, rugged board-to-board stackable connectors

Mission-critical board-to-board connector applications demand fail-safe signal integrity as well as rugged and reliable harsh-environment performance. The HD Stacker™ brings Glenair innovation to stacking board-to-board connectors with several significant design improvements: Ultra high-density .0625" Chevron Contact System provides 55% more contacts per connector size, or a 31% size reduction for the same number of contacts as compared to current industry solutions. Polarized connector bodies and available polarized guide pins prevent accidental mismating. The solder-free press-fit compliant pin contacts are removable, repairable, and available in custom lengths. HD Stacker™ connectors may also be ordered with pre-wired cable or flex jumper terminations. High-speed signal integrity test reports are available upon request. Choose HD Stacker™ for the ultimate in high-density, rugged board-to-board stackable connector performance.

- High-density .0625" pitch Chevron Contact System
- PCIe 3.0 capable
- Performance up to 10.5 Gbps
- Polarized insulator and hardware options
- Solder free "eye of the needle" compliant tail for press fit installation
- High-temp PPS insulator meets NASA outgassing requirements
- Available wired / flex jumpers
- Available between-board spacers up to 1 inch

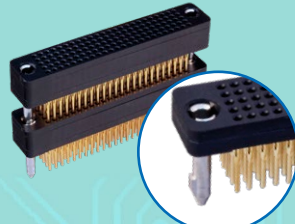
HD STACKER™ FOR MISSION-CRITICAL BOARD-TO-BOARD APPLICATIONS



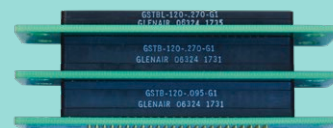
Solder-free press-fit (compliant pin) board mounting



.0625" pitch contact spacing: highest available density



Polarized shells and keyed guide pin hardware prevent mis-mating



Controlled signal integrity for differential applications (test reports available)

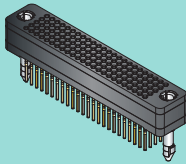
.062" PITCH COMPLIANT PIN

High-Density Stacker™

Solder-free, rugged board-to-board
stackable connectors

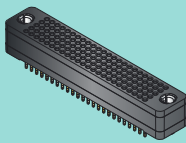


SELECTION GUIDE



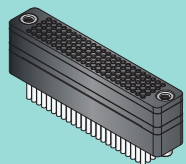
HD Stacker™ GSTB - Universal stacking connector
For top, middle, and bottom positions

page 4



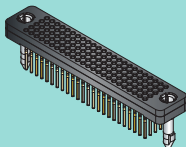
HD Stacker™ GSTB (.095) Single-sided mating connector
Bottom-of-stack

page 5



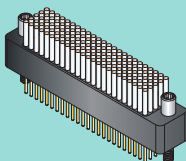
HD Stacker™ GSTF Pre-wired connector
Bottom-of-stack

page 6



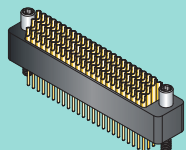
HD Stacker™ GSTBL Single-sided mating connector
Top-of-stack

page 7



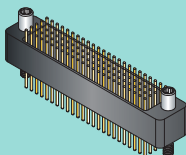
HD Stacker™ GSTT-PW Pre-wired connector
Top-of-stack

page 8



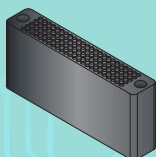
HD Stacker™ GSTT-PS Solder-cup connector
Top-of-stack

page 9



HD Stacker™ GSTT-PF PC-tail (flex) connector
Top-of-stack

page 10



HD Stacker™ 980-008 Board-to-board spacer
Between stack

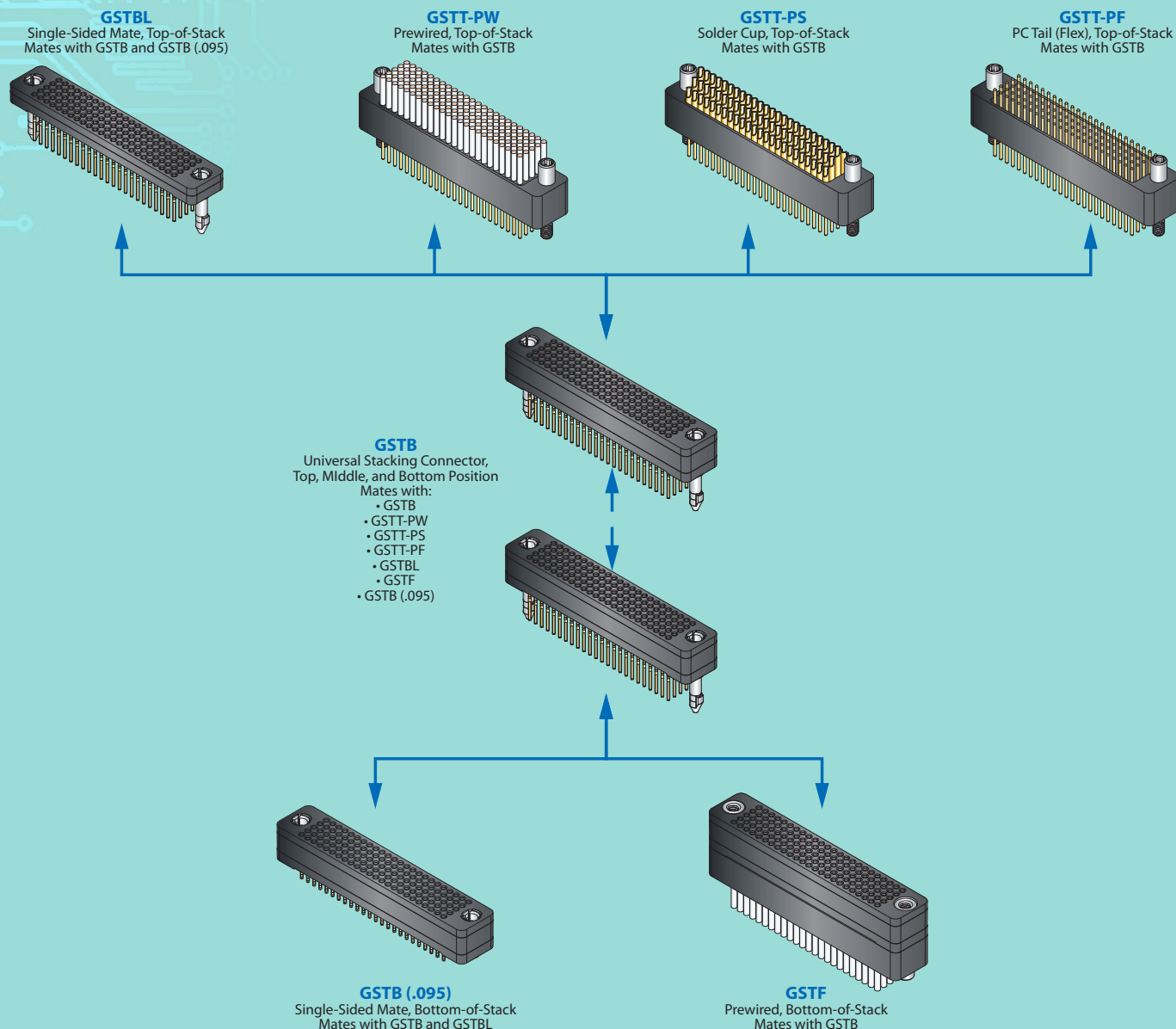
page 12

.062" PITCH COMPLIANT PIN High-Density Stacker™

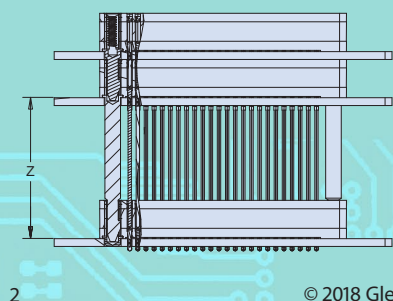


Solder-free, rugged board-to-board
stackable connectors

HD STACKER™ POSITION AND MATING COMPATIBILITY GUIDE



980-008 Between-board spacers available for all GSTB pin lengths.



"Z" Value with associated Termination Length							
Z		Termination Length		Z		Termination Length	
in	mm	in	mm	in	mm	in	mm
.348/.384	8.84/9.75	.270	6.86	.685/.784	17.40/19.91	.600	15.24
.385/.434	9.78/11.02	.300	7.62	.785/.884	19.94/22.45	.700	17.78
.435/.484	11.05/12.29	.350	8.89	.885/.984	22.48/24.99	.800	20.32
.485/.584	12.32/14.83	.400	10.16	.985/1.084	25.02/27.53	.900	22.86
.585/.684	14.86/17.37	.500	12.70	1.085/1.184	27.56/30.10	1.000	25.40

.062" PITCH COMPLIANT PIN High-Density Stacker™



Solder-free, rugged board-to-board stackable connectors

PERFORMANCE SPECIFICATIONS

Current rating: 3 Amp
DWV: 638 VAC sea level
Insulation resistance:
5000 Megohms minimum @ 500 VDC
Contact resistance: 3 – 5 Milliohms
Operating temperature: -65°C to +125°C
Mating force (max):
(4 ounces) X (number of contacts)
Insertion force (max):
(22.5 pounds) X (number of contacts)
Durability: 500 mating cycles

MATERIALS AND FINISHES

Insulator: Polyphenylene sulfide (PPS)
Contacts: Copper alloy, gold over nickel plating
Hardware: Copper alloy, nickel plated and/or 300 series stainless steel, passivated
Encapsulant: Epoxy resin Hysol EE4215

PCB REQUIREMENTS

Board material: FR-4 or equivalent with 1 oz. copper
Board thickness: .058" minimum
Drilled hole size: Ø.033" (#66 drill)
Plating material: Sn alloy or ENIG recommended
Total plating thickness: .001" – .002"

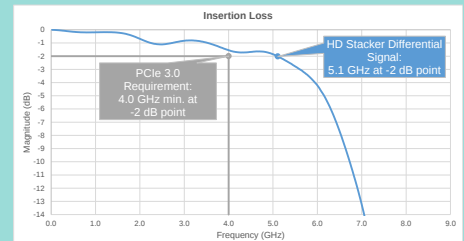
QUALIFICATION TESTING / HIGH-SPEED PERFORMANCE

Stacker connectors were qualified in accordance with MIL-DTL-55302G testing for:

- Contact engagement/separation and retention
- DWV
- Electrical resistance
- Mechanical vibration/shock
- Insulation resistance
- Thermal shock
- Contact resistance
- Humidity

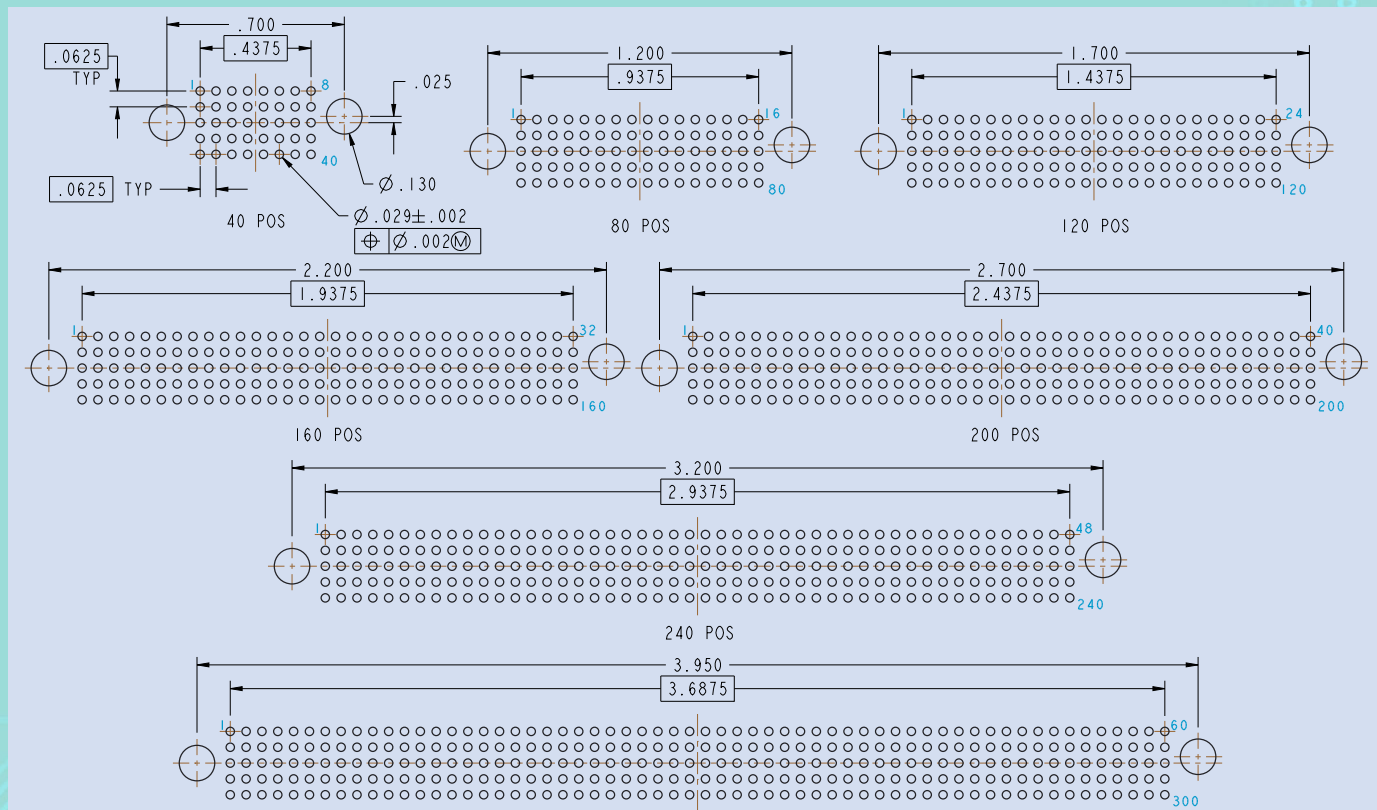
High-frequency electrical performance tests were performed for: Insertion loss, return loss, crosstalk, and time domain performance metrics including impedance and eye pattern.

Complete test reports are available at www.glenair.com/technical_information_test_reports



HD Stacker insertion loss compared to PCIe Rev. 3

PCB LAYOUTS (COMPONENT SIDE)

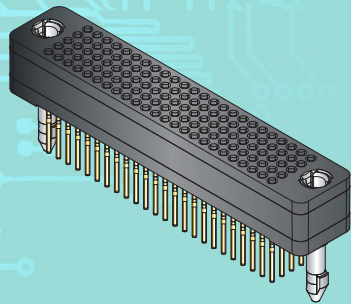


.062" PITCH COMPLIANT PIN High-Density Stacker™



GSTB universal stacking connector
For top, middle, and bottom-of-stack

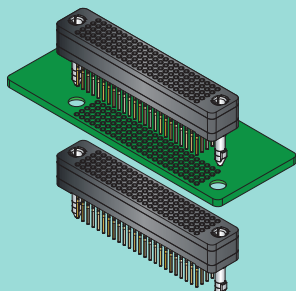
MATES WITH GSTB, GSTB (.095), GSTF, GSTT, GSTBL



- **Innovative Chevron Contact System (CCS)**
- **High-density layouts from 40 to 300 contacts**
- **Polarized insulators**
- **Keyed guide pin hardware for mis-mate protection**

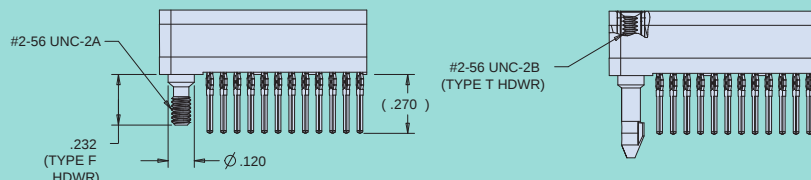
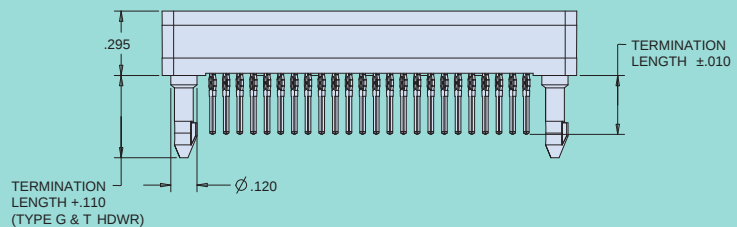
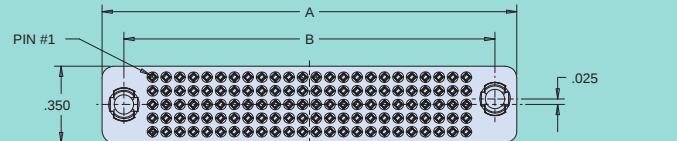


All Glenair HD Stacker™ connectors are equipped with our innovative .062" pitch high-density Chevron Contact System (CCS). Special non-orthogonal socket tines enable both higher density layouts as well as improved signal integrity. The GSTB is equipped with pin/socket contacts with solder-free press-fit board mounting.



The GSTB is a universal stacking connector that may be used in the bottom, middle, or top position depending on application. Shown: GSTB stack-mating with GSTB.

How to Order GSTB HD Stackers					
Sample Part Number	GSTB	-120	-.270	-G	1
Series	GSTB = Standard Profile Stacker				
Number of Contacts	40, 80, 120, 160, 200, 240, 300				
Pin Termination Length	.270, .300, .350, .400, .500, .600, .700, .800, .900, 1.000				
Hardware	G Keyed Guide Pin / Guide Socket T Keyed Guide Pin / Female #2-56 Jackpost for GSTT mate F Keyed Guide Socket / Fixed (non-rotating) Male Jackscrew for GSTF mate <i>Use .270 termination length only</i>				
Key Position	1	2	3	4	



Number of Contacts	A		B	
	in	mm	in	mm
40	0.90	22.86	0.70	17.78
80	1.40	35.56	1.20	30.48
120	1.90	48.26	1.70	43.18
160	2.40	60.96	2.20	55.88
200	2.90	73.66	2.70	68.58
240	3.40	86.36	3.20	81.28
300	4.15	105.41	3.95	100.33

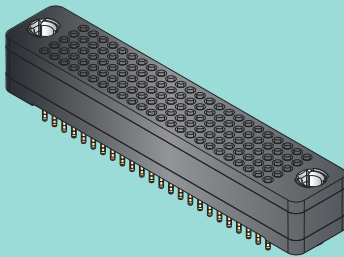
.062" PITCH COMPLIANT PIN

High-Density Stacker™

GSTB (.095) single-sided mating connector
Bottom-of-stack

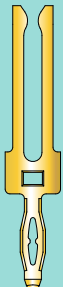


MATES WITH GSTB AND GSTBL

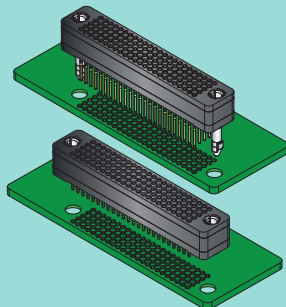


- Innovative Chevron Contact System (CCS)
- High-density layouts from 40 to 300 contacts
- Polarized insulators
- Keyed guide pin hardware for mis-mate protection

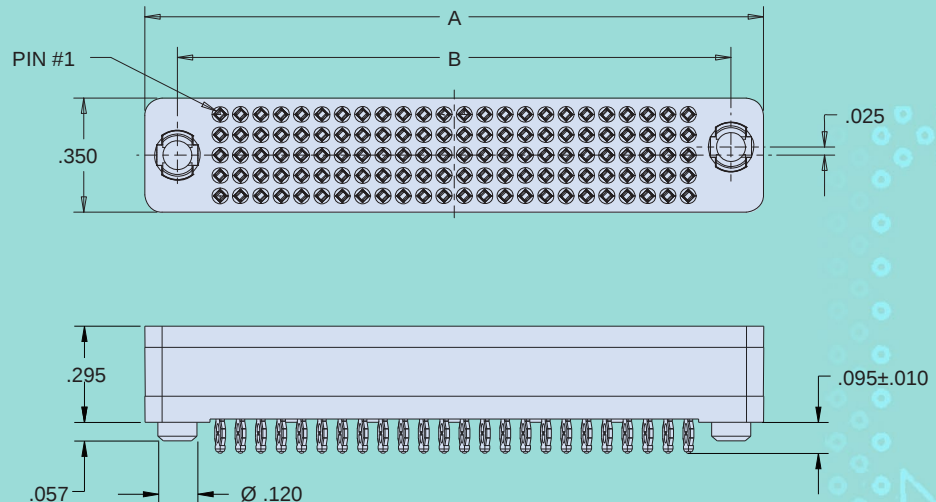
How to Order GSTB (.095) HD Stackers					
Sample Part Number		GSTB	-120	-.095	-B 1
Series	GSTB = Standard Profile Stacker				
Number of Contacts	40, 80, 120, 160, 200, 240, 300				
Zero Termination Length	.095				
Hardware	B Keyed Guide Pins for bottom stack				
Key Position	1 PIN 1 R 2 PIN 1 R 3 PIN 1 L 4 PIN 1 L				



All Glenair HD Stacker™ connectors are equipped with our innovative .062" pitch high-density Chevron Contact System (CCS). Special non-orthogonal socket tines enable both higher density layouts as well as improved signal integrity. The GSTB (.095) is equipped with socket contacts with solder-free press-fit board mounting section only (no pin contacts)



The GSTB (.095) is used in bottom-of-stack applications that only require a single-sided mating interface. Shown: GSTB (.095) on bottom, stack-mating with GSTB above.



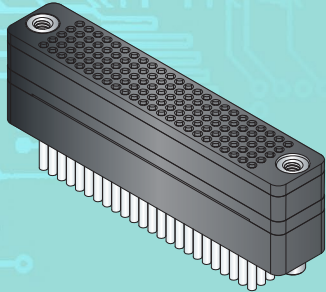
Number of Contacts	A		B	
	in	mm	in	mm
40	0.90	22.86	0.70	17.78
80	1.40	35.56	1.20	30.48
120	1.90	48.26	1.70	43.18
160	2.40	60.96	2.20	55.88
200	2.90	73.66	2.70	68.58
240	3.40	86.36	3.20	81.28
300	4.15	105.41	3.95	100.33

.062" PITCH COMPLIANT PIN High-Density Stacker™



GSTF pre-wired connector Bottom-of-stack

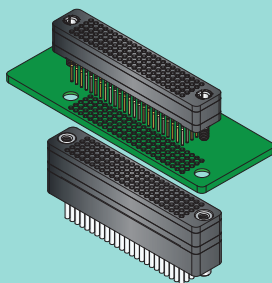
MATES WITH GSTB



- Innovative Chevron Contact System (CCS)
- High-density layouts from 40 to 300 contacts
- Polarized insulators
- Keyed guide pin hardware for mis-mate protection
- Mil-qualified hookup wire in white, yellow, striped, and ten-color repeat

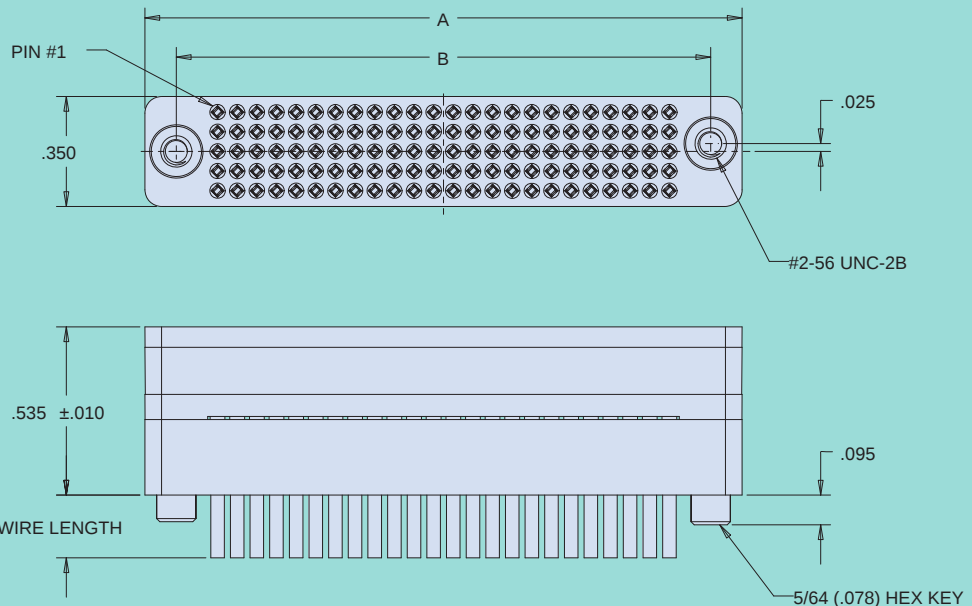


All Glenair HD Stacker™ connectors are equipped with our innovative .062" pitch high-density Chevron Contact System (CCS). Special non-orthogonal socket tines enable both higher density layouts as well as improved signal integrity. The GSTF is equipped with mating socket contacts and a pre-wired cable jumper.



The GSTF is a bottom-of-stack solution for subsystems that require an I/O interface for performance testing and analytics. Shown: GSTF stack-mating with GSTB.

How to Order GSTF HD Stacker Connectors									
Sample Part Number		GSTF	-120	P	W	-4	K	7	-18 M
Series	GSTF = Pre-wired Bottom Stacker								
Number of Contacts	40, 80, 120, 160, 200, 240, 300								
Contact Type	P = pin								
Termination Type	W = prewired								
Wire Gauge	4 = #24 6 = #26 8 = #28								
Wire Type	K = M22759/11 600 VRMS Teflon (TFE) J = M22759/33 600 VRMS modified cross-linked Tefzel (ETFE) E = NEMA HP3-EB 600VRMS type E M16878/4 (TFE)								
Wire Color	1 = White 2 = Yellow 5 = Color-coded stripes per MIL-STD-681 7 = Ten-color repeating								
Wire Length	Length in inches ("-18" specifies 18 inches.) 4" minimum.								
Hardware	M = #2-56 Hex Head Jackscrew								



Number of Contacts	A		B	
	in	mm	in	mm
40	0.90	22.86	0.70	17.78
80	1.40	35.56	1.20	30.48
120	1.90	48.26	1.70	43.18
160	2.40	60.96	2.20	55.88
200	2.90	73.66	2.70	68.58
240	3.40	86.36	3.20	81.28
300	4.15	105.41	3.95	100.33

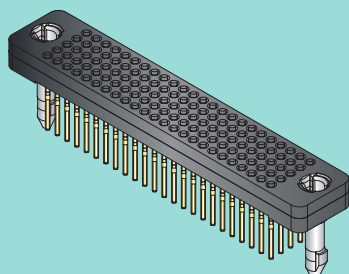
.062" PITCH COMPLIANT PIN

High-Density Stacker™

GSTBL single-sided mating connector
Top-of-stack



MATES WITH GSTB AND GSTB (.095)

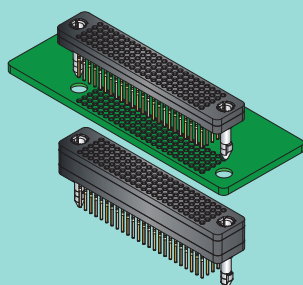
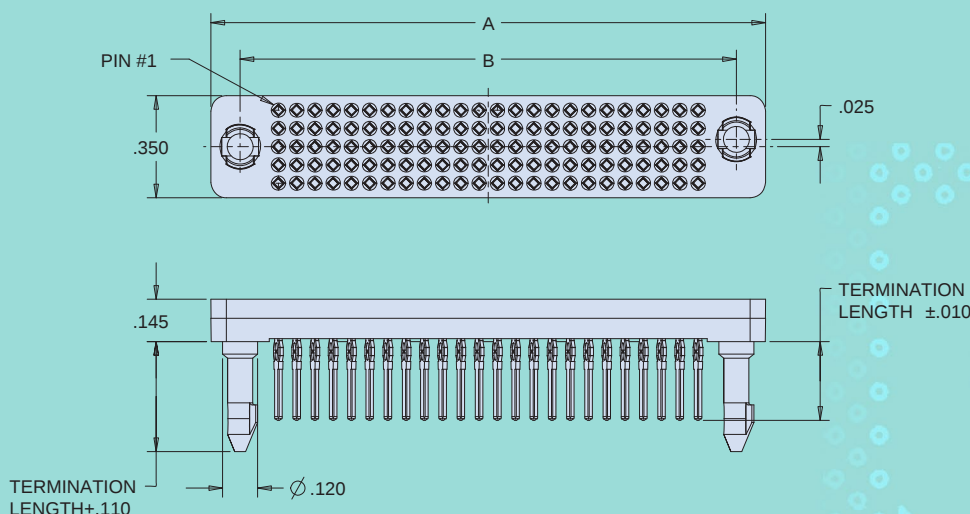


- Innovative Chevron Contact System (CCS)
- High-density layouts from 40 to 300 contacts
- Polarized insulators
- Keyed guide pin hardware for mis-mate protection

How to Order GSTBL HD Stacker					
Sample Part Number		GSTBL	-120	-270	-G 1
Series	GSTBL = Low Profile Stacker				
Number of Contacts	40, 80, 120, 160, 200, 240, 300				
Pin Termination Length	.270, .300, .350, .400, .500, .600, .700, .800, .900, 1.000				
Hardware	G Keyed Guide Pin				
Key Position	1 2 3 4				



All Glenair HD Stacker™ connectors are equipped with our innovative .062" pitch high-density Chevron Contact System (CCS). Special non-orthogonal socket tines enable both higher density layouts as well as improved signal integrity. The GSTBL is equipped with pin contacts with solder-free press-fit board mounting (no socket contacts).



The GSTBL is used in top-of-stack applications that only require a single-sided mating interface. Shown: GSTBL stack-mating with GSTB.

Number of Contacts	A		B	
	in	mm	in	mm
40	0.90	22.86	0.70	17.78
80	1.40	35.56	1.20	30.48
120	1.90	48.26	1.70	43.18
160	2.40	60.96	2.20	55.88
200	2.90	73.66	2.70	68.58
240	3.40	86.36	3.20	81.28
300	4.15	105.41	3.95	100.33

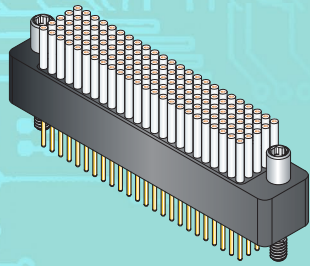
.062" PITCH COMPLIANT PIN

High-Density Stacker™

GSTT-PW pre-wired connector
Top-of-stack

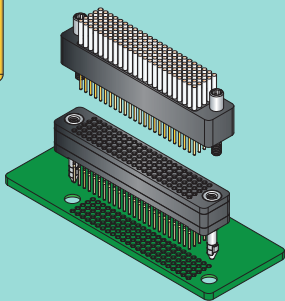


MATES WITH GSTB



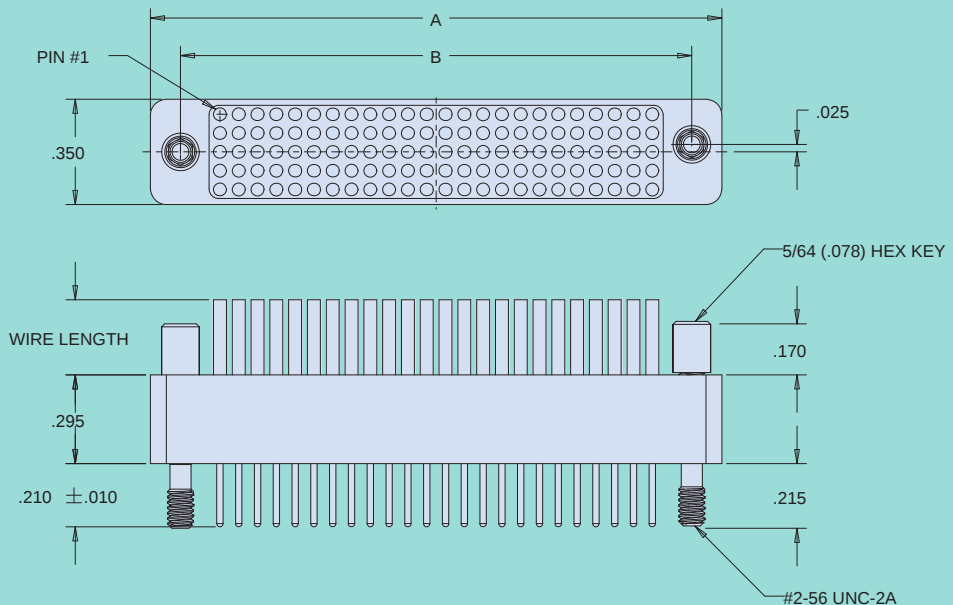
- Innovative Chevron Contact System (CCS)
- High-density layouts from 40 to 300 contacts
- Polarized insulators
- Keyed guide pin hardware for mis-mate protection
- Mil-qualified hookup wire in white, yellow, striped, and ten-color repeat

All Glenair HD Stacker™ connectors are equipped with our innovative .062" pitch high-density Chevron Contact System (CCS). Special non-orthogonal socket tines enable both higher density layouts as well as improved signal integrity. The GSTT-PW is equipped with pin contacts and a pre-wired cable jumper.



The GSTT-PW is a top-of-stack solution for subsystems that require an I/O interface for performance testing and analytics. Shown: GSTT-PW stack-mating with GSTB.

How to Order GSTT-PW HD Stacker Connectors										
Sample Part Number		GSTT	-120	P	W	-4	K	7	-18	M
Series	GSTT = Pre-Wired Top Stacker									
Number of Contacts	40, 80, 120, 160, 200, 240, 300									
Contact Type	P = pin									
Termination Type	W = prewired									
Wire Gauge	4 = #24 6 = #26 8 = #28									
Wire Type	K = M22759/11 600 VRMS Teflon (TFE) J = M22759/33 600 VRMS modified cross-linked Tefzel (ETFE) E = NEMA HP3-EB 600VRMS type E M16878/4 (TFE)									
Wire Color	1 = White 2 = Yellow 5 = Color-coded stripes per MIL-STD-681 7 = Ten-color repeating									
Wire Length	Length in inches ("-18" specifies 18 inches.) 4" minimum.									
Hardware	M = #2-56 Hex Head Jackscrew									



Number of Contacts	A		B	
	in	mm	in	mm
40	0.90	22.86	0.70	17.78
80	1.40	35.56	1.20	30.48
120	1.90	48.26	1.70	43.18
160	2.40	60.96	2.20	55.88
200	2.90	73.66	2.70	68.58
240	3.40	86.36	3.20	81.28
300	4.15	105.41	3.95	100.33

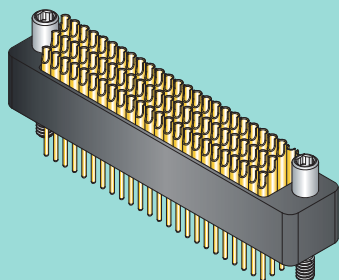
.062" PITCH COMPLIANT PIN

High-Density Stacker™

GSTT-PS solder cup connector
Top-of-stack



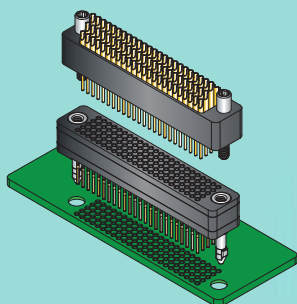
MATES WITH GSTB



- Innovative Chevron Contact System (CCS)
- High-density layouts from 40 to 300 contacts
- Polarized insulators
- Keyed guide pin hardware for mis-mate protection
- Solder cup cascaded for easy wire-to-contact terminations

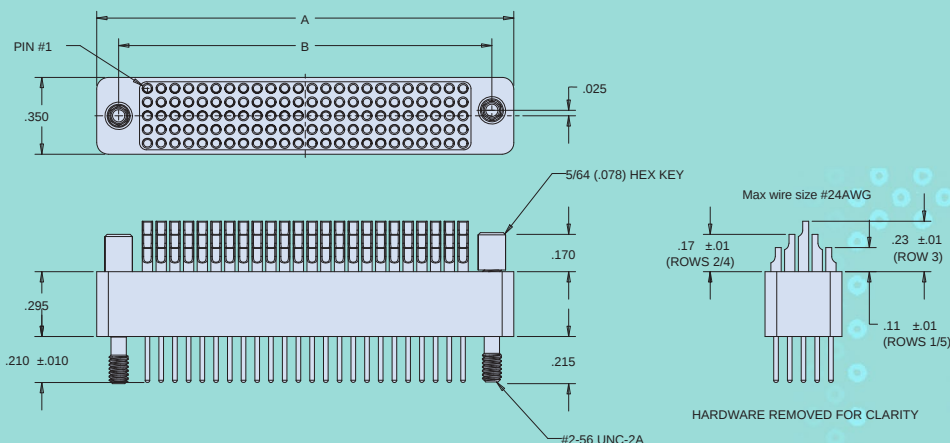


All Glenair HD Stacker™ connectors are equipped with our innovative .062" pitch high-density Chevron Contact System (CCS). Special non-orthogonal socket tines enable both higher density layouts as well as improved signal integrity. The GSTT-PS is equipped with pin contacts and solder cups for wire-to-contact termination.



The GSTT-PS is a top-of-stack solution for solder termination of wires to contacts. Shown: GSTT-PS stack-mating with GSTB

How to Order GSTT-PS HD Stacker Connectors					
Sample Part Number		GSTT	-120	P	S M
Series	GSTT = Solder-Cup Top Stacker				
Number of Contacts	40, 80, 120, 160, 200, 240, 300				
Contact Type	P = Pin				
Termination Type	S = Solder Cup				
Hardware	M = #2-56 Hex Head Jackscrew				



Number of Contacts	A		B	
	in	mm	in	mm
40	0.90	22.86	0.70	17.78
80	1.40	35.56	1.20	30.48
120	1.90	48.26	1.70	43.18
160	2.40	60.96	2.20	55.88
200	2.90	73.66	2.70	68.58
240	3.40	86.36	3.20	81.28
300	4.15	105.41	3.95	100.33

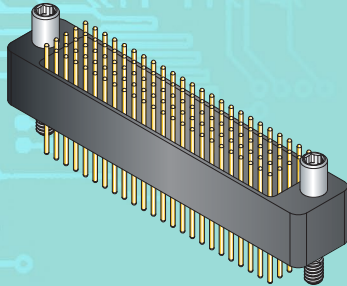
.062" PITCH COMPLIANT PIN

High-Density Stacker™

GSTT-PF PC-tail (flex) connector
Top-of-stack



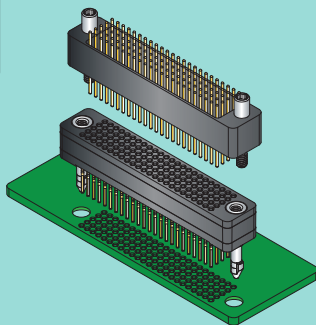
MATES WITH GSTB



- Innovative Chevron Contact System (CCS)
- High-density layouts from 40 to 300 contacts
- Polarized insulators
- Keyed guide pin hardware for mis-mate protection
- Turnkey PC-tail flex jumpers available from Glenair, consult factory.

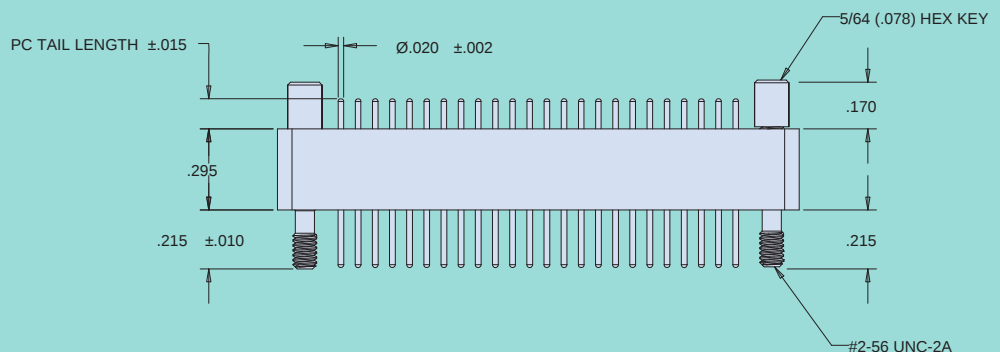
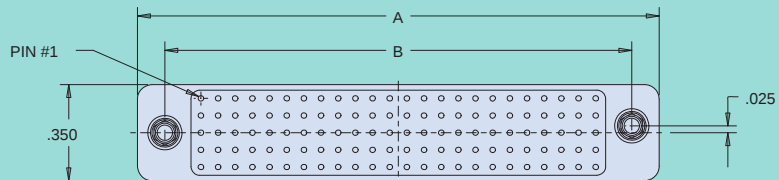


All Glenair HD Stacker™ connectors are equipped with our innovative .062" pitch high-density Chevron Contact System (CCS). Special non-orthogonal socket tines enable both higher density layouts as well as improved signal integrity. The GSTT-PF is equipped with pin contacts and PC tails for termination to flex



The GSTT-PF is a top-of-stack connector for termination to flex. Shown: GSTT-PF stack-mating with GSTB.

How to Order GSTT-PF HD Stacker Connectors						
Sample Part Number		GSTT	-120	P	F	-.080 M
Series	GSTT = PC Tail Top Stacker (for flex termination)					
Number of Contacts	40, 80, 120, 160, 200, 240, 300					
Contact Type	P = Pin					
Termination Type	F = PC Tail (for flex termination)					
PC Tail Length	.080, .110, .140, .172, .190, .250					
Hardware	M = #2-56 Hex Head Jackscrew					



Number of Contacts	A		B	
	in	mm	in	mm
40	0.90	22.86	0.70	17.78
80	1.40	35.56	1.20	30.48
120	1.90	48.26	1.70	43.18
160	2.40	60.96	2.20	55.88
200	2.90	73.66	2.70	68.58
240	3.40	86.36	3.20	81.28
300	4.15	105.41	3.95	100.33

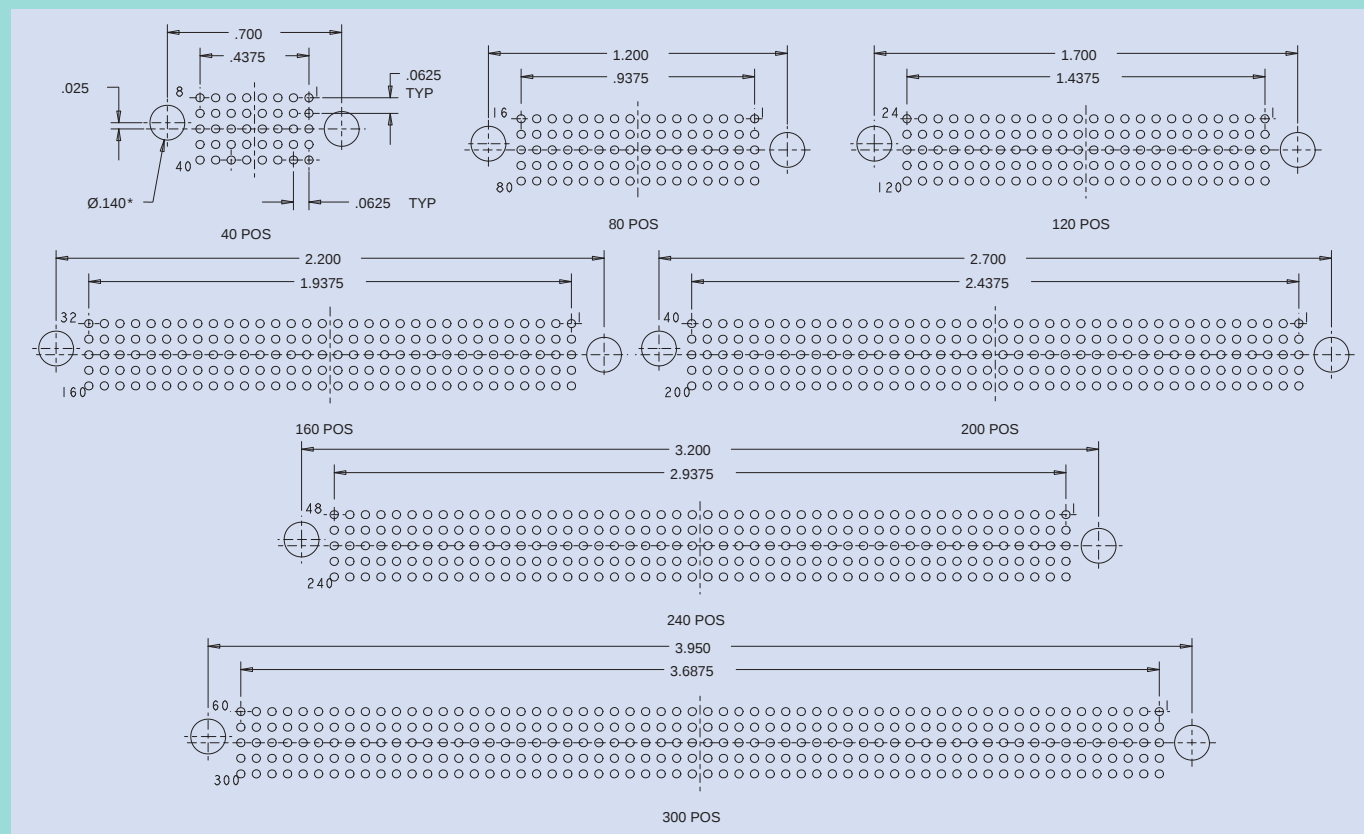
.062" PITCH COMPLIANT PIN

High-Density Stacker™

GSTT-PF PC-tail (flex) connector
Top-of-stack



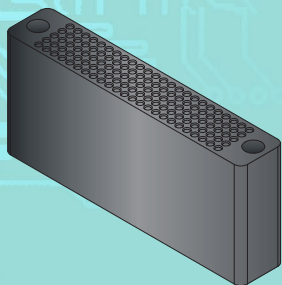
FLEX LAYOUTS (COMPONENT SIDE)



.062" PITCH COMPLIANT PIN High-Density Stacker™ Board-to-Board Spacer



USE WITH GSTB OR GSTBL



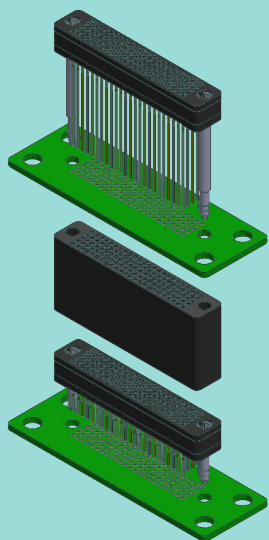
- Bridges board-to-board gaps beyond the base HD Stacker height of .295" (7.49mm)
- Specify any board-to-board height up to 1.025" (26.03 mm)

How to Order 980-008 HD Stacker Board-to-Board Spacers			
Sample Part Number	980-008	-120	-.530
Series	980-008 = HD Stacker Board-to-Board Spacer		
Number of Contacts	40, 80, 120, 160, 200, 240, 300		
Spacer Height*	.030, .080, .130, .230, .330, .430, .530, .630, .730		

*contact Glenair for additional spacer heights

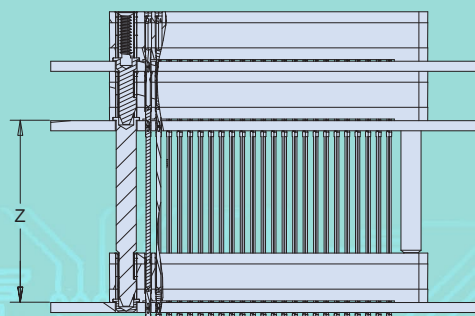
Board-to-Board Height		Spacer Height		Termination Length*		Board-to-Board Height		Spacer Height		Termination Length*	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
.295	7.49	N/A	N/A	.270	6.86	.625	15.88	.330	8.38	.600	15.24
.325	8.25	.030	0.76	.300	7.62	.725	18.42	.430	10.92	.700	17.78
.375	9.52	.080	2.03	.350	8.89	.825	20.96	.530	13.46	.800	20.32
.425	10.80	.130	3.30	.400	10.16	.925	23.50	.630	16.00	.900	22.86
.525	13.34	.230	5.84	.500	12.70	1.025	26.03	.730	18.54	1.000	25.40

*Based on .060" board thickness. To determine Termination Length for other board thicknesses, refer to "Z" value table below, or contact Glenair for assistance.



980-008 Spacer is used in applications that require additional space between PCBs to accommodate board electronics. Spacers serve as a rigid, precision standoff for board-to-board heights up to 1.025" (26.03mm).

"Z" Value with associated Termination Length							
Z		Termination Length		Z		Termination Length	
in	mm	in	mm	in	mm	in	mm
.348/.384	8.84/9.75	.270	6.86	.685/.784	17.40/19.91	.600	15.24
.385/.434	9.78/11.02	.300	7.62	.785/.884	19.94/22.45	.700	17.78
.435/.484	11.05/12.29	.350	8.89	.885/.984	22.48/24.99	.800	20.32
.485/.584	12.32/14.83	.400	10.16	.985/1.084	25.02/27.53	.900	22.86
.585/.684	14.86/17.37	.500	12.70	1.085/1.184	27.56/30.10	1.000	25.40



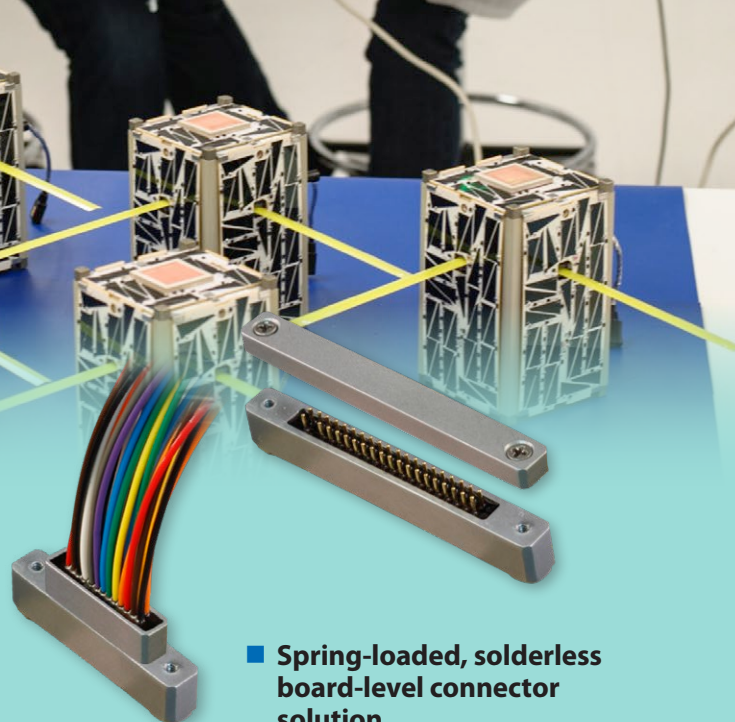


ALSO AVAILABLE FROM
GLENAIR:

AlphaLink®

Board-level spring-loaded- contact connectors and turnkey flex jumpers

AlphaLink® SL is a high-performance, solderless board-level connector technology developed by Glenair that significantly expands board-level interconnection options for users of mil-spec caliber connectors. Precision-machined and EMI shielded, these ultralightweight PC tail, solder cup, and/or pigtail equipped connectors are designed for high-reliability applications that require avionic system levels of vibration and shock tolerance. Ultra low-profile and high-density, AlphaLink® SL connectors are equipped with 2–3 Amp spring-loaded contacts and may be ordered either as discrete connectors or in turnkey flex jumpers that combine popular Glenair high-reliability I/O connectors. Glenair is perfectly positioned to provide the entire solution with in-house manufacturing for every component part—from connectors and contacts to rugged polyimide-based flex. AlphaLink® SL flex jumpers are available with Series 80 Mighty Mouse, Series 88 SuperFly, and Series 89 nanominiature circular connectors, as well as Series 89 nanominiature, Micro-D subminiature and Series 79 Micro-Crimp rectangular connectors. A wide range of insert arrangements, from 4–40 contacts is available.



- Spring-loaded, solderless board-level connector solution
- PC tail and solder cup versions for easy termination to flex or wire
- Available I/O-to-board flex and pigtail wire jumpers
- Lightweight, low-profile: up to 40% space savings compared to 2mm pitch solutions
- High-density .050" center-to-center contact footprint
- Fast and easy PC board integration with reduced board preparation and masking
- Withstands temperature, vibration and shock extremes

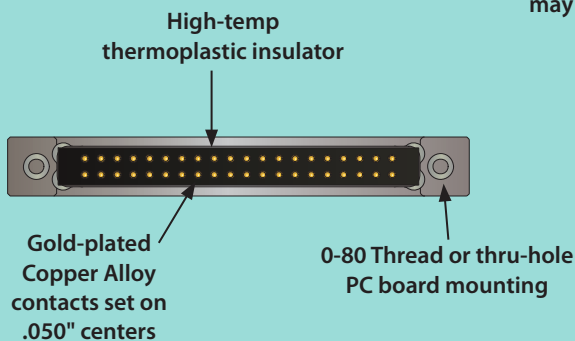
SERIES 171 ALPHALINK® SL

Spring-loaded board-level connector

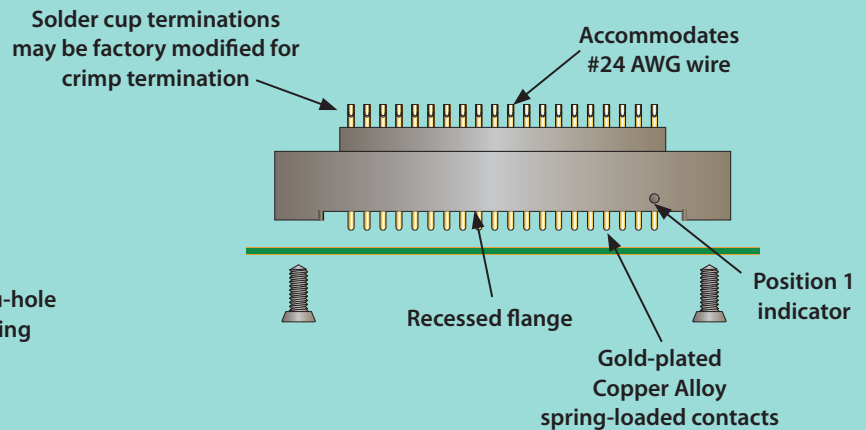
Design features

AlphaLink

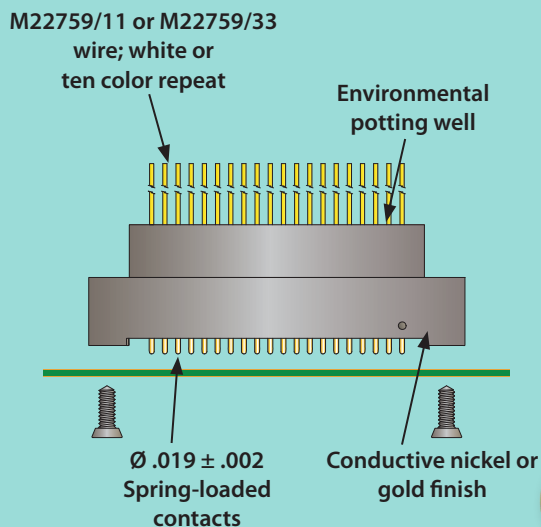
AlphaLink® SL Spring-Loaded Contact Interface



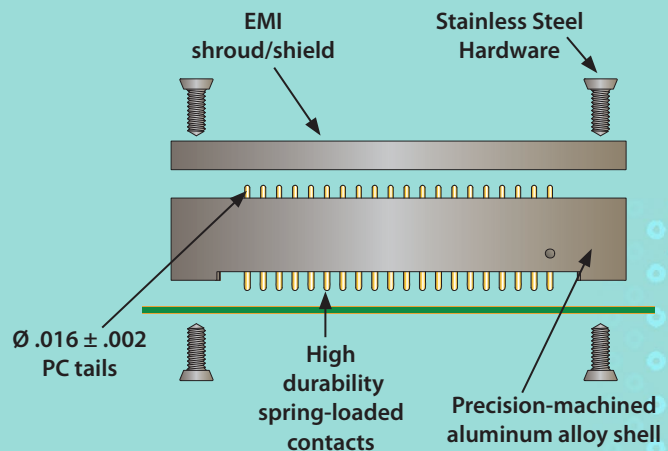
171-134-01 Solder Cup Termination



171-134-03 Wire Pigtail Termination

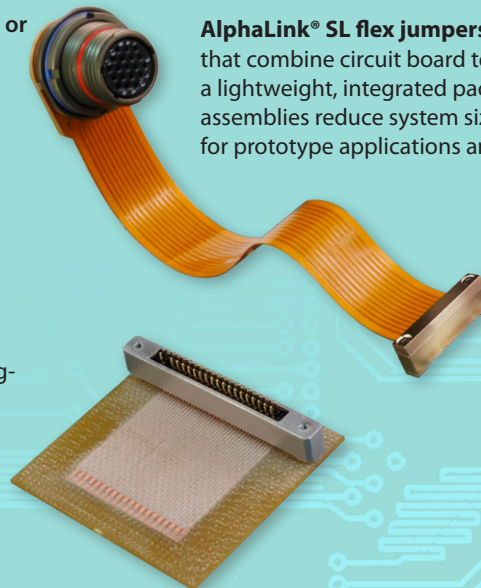


171-134-02 PC Tail Termination



AlphaLink® SL spring-loaded contact PC board connectors deliver up to 50% footprint savings versus conventional 2mm pitch solutions. PC tail equipped connectors, the 171-134-02, are supplied with an EMI shroud / shield for improved EMC compared to low-cost plastic board connectors. All connector styles incorporate a high-reliability spring-loaded contact that delivers a virtually unlimited number of mating cycles. Connectors are typically mated to the PC board using conductive pads or vias. Stainless steel mounting hardware provides a robust, vibration-resistant attachment solution compared to stamped-and-formed retention barbs.

AlphaLink® SL flex jumpers: Compact interconnect assemblies that combine circuit board technology and cabling into a lightweight, integrated package. These turnkey jumper assemblies reduce system size and weight and are ideally suited for prototype applications and new product development efforts.



Glenair

For more information
contact Glenair at
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visit our website at
www.glenair.com
U.S. CAGE code 06324



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