



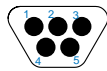
### Micro-Crimp to AlphaLink Flex Jumpers

Glenair Series 79 Micro-Crimp advanced-performance rectangular connectors in 7 contact arrangements, terminated with rugged polyimide-based flex to AlphaLink board level connectors.

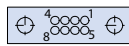


Micro-Crimp to AlphaLink flex jumper

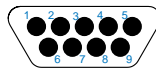
#### Recommended Micro-Crimp I/O to AlphaLink Contact Arrangements\*



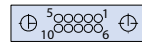
A-5



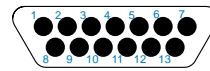
8 Contacts



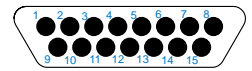
B-9



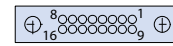
10 Contacts



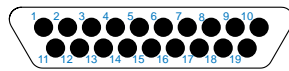
C-13



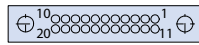
D-15



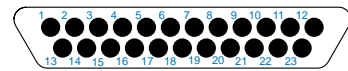
16 Contacts



E-19



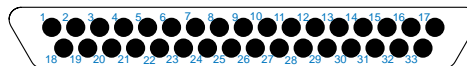
20 Contacts



F-23



28 Contacts

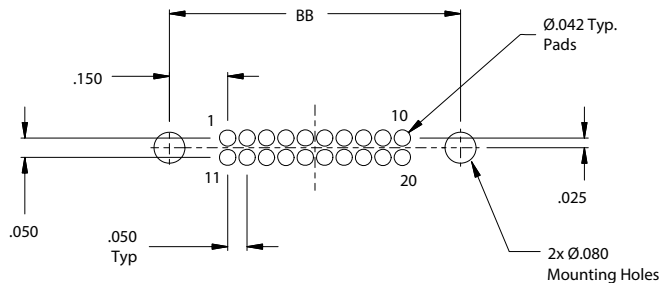


J-33



40 Contacts

\* These are recommended contact arrangements only, but do offer best availability. Contacts are mapped 1-to-1 from I/O to B/L connector (unused B/L contacts not connected). For alternative wire schedules, please consult factory.



Recommended PCB Layout (See Table IV)

H

Contact arrangements • hardware options • dimensions • PCB layout



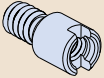
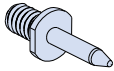
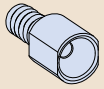
Table I: Hardware Option		
<b>N</b> No Mating Hardware		Connector supplied with blind tapped holes. .150" (3.8 mm) minimum depth. Connector supplied with blind tapped holes, .150 (3.8mm) minimum depth, #4-40 UNC-2B thread.
<b>P</b> Jackposts		Connector is supplied with non-removable stainless steel jackposts, #2-56 UNC-2B thread.
<b>G</b> Guide Pins		Connector is supplied with stainless steel non-removable guide pins for blind mate applications. Mates with type "S" guide sockets on corresponding plug connector.
<b>S</b> Guide Sockets		Connector is supplied with stainless steel non-removable bushings for blind mate applications. Mates with type "G" guide pins on corresponding plug connector.

Table II: Available I/O Insert Layout and B/L Assembly Pair			
I/O No. of Contacts	I/O Insert Layout		B/L No. of Contacts
	Contact Size	Config	
5	23	A-5	8
9	23	B-9	10
13	23	C-13	16
15	23	D-15	16
19	23	E-19	20
23	23	F-23	28
33	23	J-33	40

\* Contacts mapped 1-to-1 from I/O to B/L connector (unused B/L contacts not connected). For alternative wire schedules, please consult factory.

Table IV - B/L Connector Dimensions		
Layout	AA	BB
4	.527 (13.4)	.350 (8.9)
8	.627 (15.9)	.450 (11.4)
10	.677 (17.2)	.500 (12.7)
16	.827 (21.0)	.650 (16.5)
20	.927 (23.5)	.750 (19.1)
28	1.127 (28.6)	.950 (24.1)
32	1.227 (31.2)	1.050 (26.7)
40	1.427 (36.2)	1.250 (31.8)





# Rear panel mount environmental Micro-Crimp pin contact receptacle to AlphaLink SL flex jumper

796-112

## SERIES 79 MICRO-CRIMP INPUT/OUTPUT (I/O) RECEPTACLE CONNECTOR WITH PIN CONTACTS TO ALPHALINK SL SPRING-LOADED CONTACT BOARD LEVEL (B/L) CONNECTOR

How To Order 796-112	
Sample Part Number	796-112 -9-10 M G -2 T -6 S
Series / Basic Part No.	Rear Panel-Mount Micro-Crimp I/O receptacle to Series 171 AlphaLink SL
I/O Contact Arrangement	See Table II
I/O Shell Finish	Aluminum Shell M - Electroless Nickel MT - Nickel-PTFE E - Chem Film Z2 - Gold UC - Zinc Cobalt with Black Chromate J - Cadmium with Yellow Chromate NF - Cad/O.D. over Electroless Nickel
I/O Hardware Option	P - Jackposts G - Male Guide Pins S - Female Guide Sockets N - No Mating Hardware (See Table I)
AlphaLink Finish	2 = Nickel 5 = Gold
AlphaLink Hardware Option	T = Threaded thru hole Omit for thru hole
Assembly Length	3 = 3.00 ± .05 inches 6 = 6.00 ± .05 inches 12 = 12.00 ± .05 inches
Optional Shielding	S = With shielding Omit for none

### MATERIALS AND FINISHES

Shell: Aluminum alloy  
 Insulators: Liquid crystal polymer  
 Interfacial seal: Fluorosilicone  
 Contacts: Copper Alloy/Gold Plated  
 Potting: Epoxy  
 Hardware: 300 series stainless steel

### NOTES

Input/Output Series 79 Micro-Crimp connector:  
 Receptacle connector with pin contacts, rear panel mount with o-ring environmental seal  
 Refer to Glenair drawing 799-009 for insert arrangements  
 Contacts mapped 1-to-1 from I/O to B/L connector (unused B/L contacts not connected). For alternative wire schedules, please consult factory.  
 Refer to Glenair drawing 799-008 for materials, finishes and performance specifications  
 Refer to Glenair drawing 799-005 for panel cutouts  
 Blind mate ± .030 (0.76) allowable misalignment from centerline.

Board Level AlphaLink SL connector:

B/L AlphaLink SL connectors are built in accordance with Glenair drawing 171-134-02  
 B/L connectors are paired with I/O connectors as shown in Contact Arrangements diagram, page 36

Flex Performance:

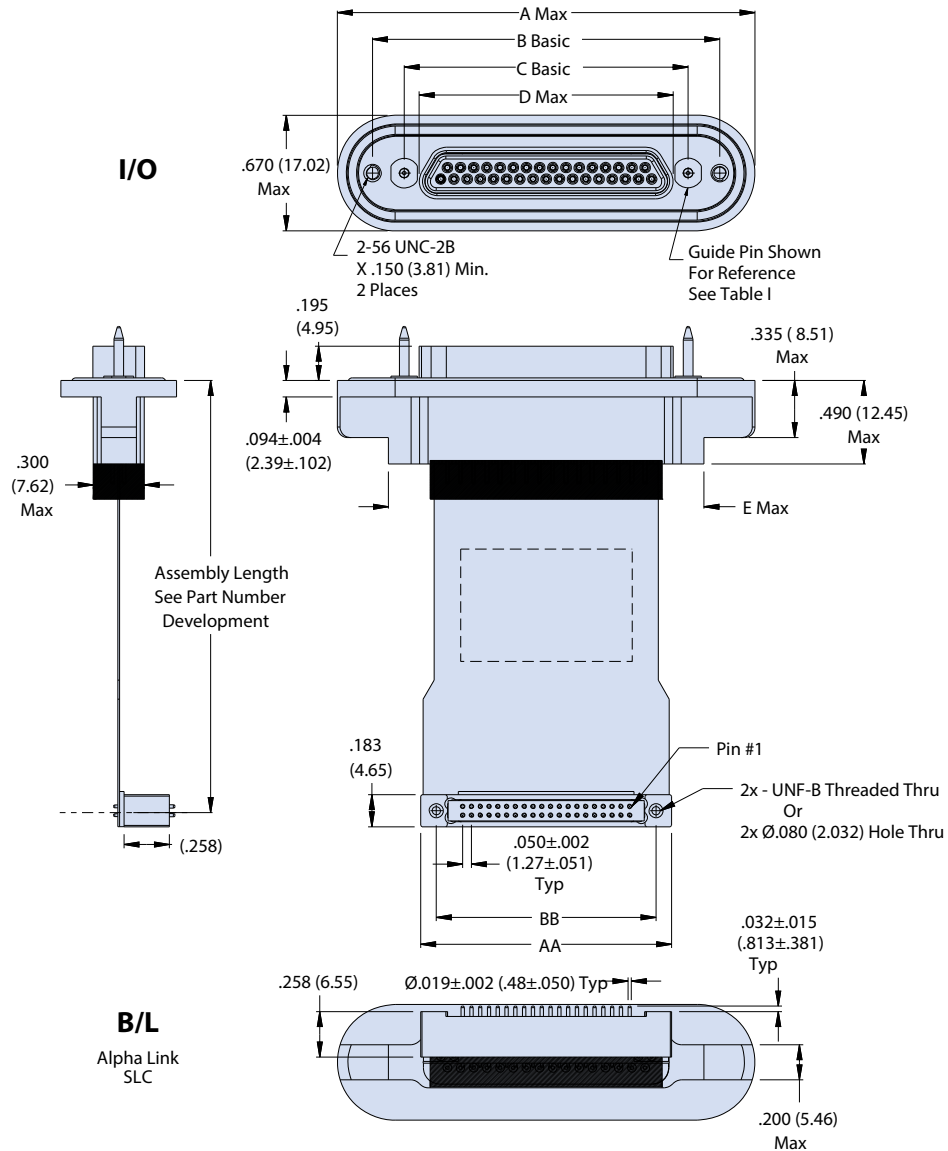
Shielding - EMI shielding film.  
 Bend radius is 6 to 10 times the flex thickness.  
 Typical flex will be .01 ± .005 thick, rugged, potted, polyimide-based flex.  
 Flex cables are terminated from the I/O connector to the B/L connector on a 1 to 1 connection (unused B/L contacts are not connected)  
 Workmanship shall be IAW IPC-6013, Class 2.

Consult factory for more options and/or special designs and requirements

H

# Rear panel mount environmental Micro-Crimp pin contact receptacle to AlphaLink SL flex jumper

796-112



Micro-Crimp I/O Connector Shell Size/Dimensions										
Shell Size	A Max		B Basic		C Basic		D Max		E Max	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.341	34.06	.925	23.50	.565	14.35	.401	10.19	.760	19.30
B	1.491	37.87	1.075	27.31	.715	18.16	.551	14.00	.910	21.11
C	1.641	41.68	1.225	31.12	.865	21.97	.701	17.81	1.060	26.92
D	1.741	44.22	1.325	33.66	.965	24.51	.801	20.35	1.160	29.46
E	1.891	48.03	1.475	37.47	1.115	28.32	.951	24.16	1.310	33.27
F	2.041	51.84	1.625	41.28	1.265	32.13	1.101	27.96	1.460	37.08
J	2.391	60.73	1.975	50.17	1.615	41.02	1.460	37.08	1.810	45.97



# Rear panel mount environmental Micro-Crimp socket contact plug to AlphaLink SL flex jumper

796-113

## SERIES 79 MICRO-CRIMP INPUT/OUTPUT (I/O) PLUG CONNECTOR WITH SOCKET CONTACTS TO ALPHALINK SL SPRING-LOADED CONTACT BOARD LEVEL (B/L) CONNECTOR

How To Order 796-113									
Sample Part Number	796-113	-9-10	M	E	G	-2	T	-6	S
Series / Basic Part No.	Rear Panel-Mount Micro-Crimp I/O plug to Series 171 AlphaLink SL								
I/O Contact Arrangement	See Table II								
I/O Shell Finish	<b>Aluminum Shell</b> M - Electroless Nickel    MT - Nickel-PTFE    E - Chem Film Z2 - Gold    UC - Zinc Cobalt with Black Chromate J - Cadmium with Yellow Chromate    NF - Cad/O.D. over Electroless Nickel								
EMI Spring	E = EMI Spring    N = No EMI Spring								
I/O Hardware Option	P - Jackposts    G - Male Guide Pins    S - Female Guide Sockets N - No Mating Hardware (See Table I)								
AlphaLink Finish	2 = Nickel    5 = Gold								
AlphaLink Hardware Option	T = Threaded thru hole    Omit for thru hole								
Assembly Length	3 = 3.00 ± .05 inches    6 = 6.00 ± .05 inches    12 = 12.00 ± .05 inches								
Optional Shielding	S = With shielding    Omit for none								

### MATERIALS AND FINISHES

Shell: Aluminum alloy  
 Insulators: Liquid crystal polymer  
 Interfacial seal: Fluorosilicone  
 Contacts: Copper Alloy/Gold Plated  
 Potting: Epoxy  
 Hardware: 300 series stainless steel

### NOTES

Input/Output Series 79 Micro-Crimp connector:  
 Plug connector with socket contacts, rear panel mount with o-ring environmental seal  
 Refer to Glenair drawing 799-009 for insert arrangements  
 Refer to Glenair drawing 799-008 for materials, finishes and performance specifications  
 Refer to Glenair drawing 799-005 for panel cutouts  
 Blind mate ± .030 (0.76) allowable misalignment from centerline.

Board Level AlphaLink SL connector:

B/L AlphaLink SL connectors are built in accordance with Glenair drawing 171-134-02

B/L connectors are paired with I/O connectors as shown in Contact Arrangements diagram, page 36

Flex Performance:

Shielding - EMI shielding film.

Bend radius is 6 to 10 times the flex thickness.

Typical flex will be .01 ± .005 thick, rugged, potted, polyimide-based flex.

Flex cables are terminated from the I/O connector to the B/L connector on a 1 to 1 connection (unused B/L contacts are not connected)

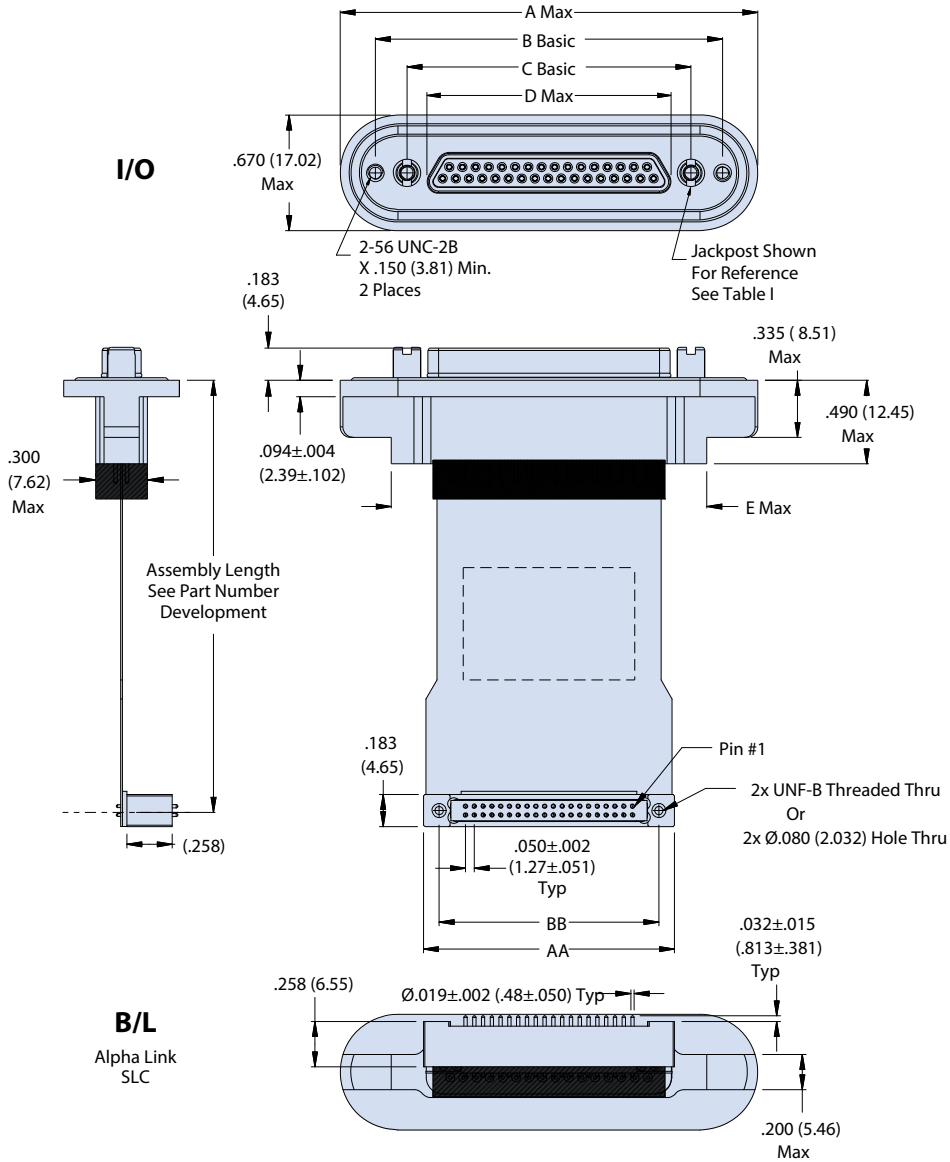
Workmanship shall be IAW IPC-6013, Class 2.

Consult factory for more options and/or special designs and requirements

H

# Rear panel mount environmental Micro-Crimp socket contact plug to AlphaLink SL flex jumper

796-113



Micro-Crimp I/O Connector Shell Size/Dimensions										
Shell Size	A Max		B Basic		C Basic		D Max		E Max	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.341	34.06	.925	23.50	.565	14.35	.335	8.51	.760	19.30
B	1.491	37.87	1.075	27.31	.715	18.16	.485	12.32	.910	21.11
C	1.641	41.68	1.225	31.12	.865	21.97	.635	16.13	1.060	26.92
D	1.741	44.22	1.325	33.66	.965	24.51	.735	18.67	1.160	29.46
E	1.891	48.03	1.475	37.47	1.115	28.32	.885	22.48	1.310	33.27
F	2.041	51.84	1.625	41.28	1.265	32.13	1.035	26.29	1.460	37.08
J	2.391	60.73	1.975	50.17	1.615	41.02	1.390	35.31	1.810	45.97

