

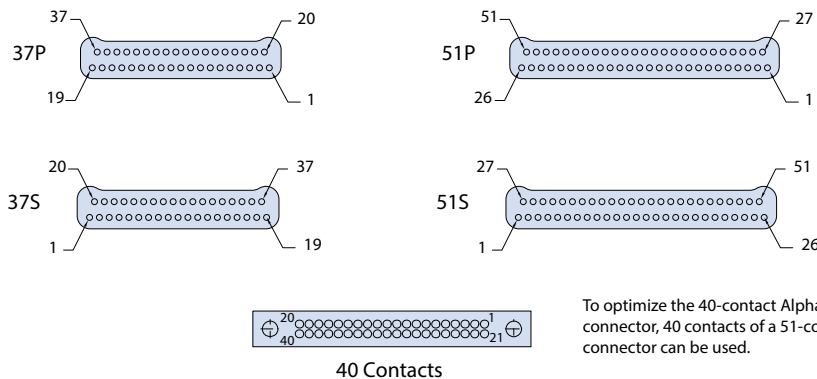
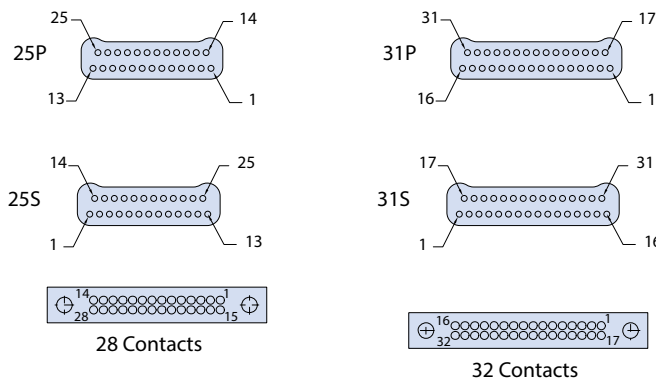
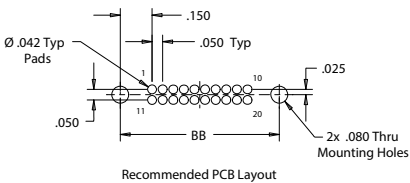
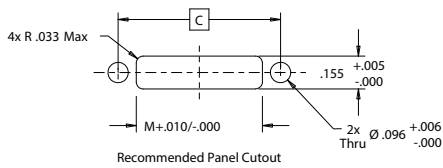
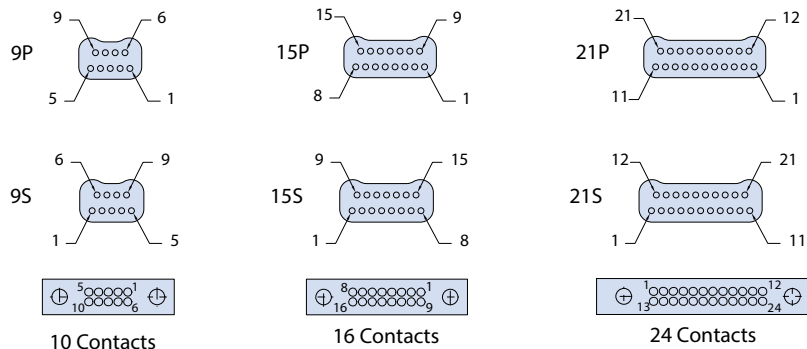


Rectangular Nano to AlphaLink flex jumper

### Rectangular Nano to AlphaLink Flex Jumpers

Glenair Series 89 Rectangular Nanominiature connectors available in 6 contact arrangements, terminated with rugged polyimide-based flex to AlphaLink board level connectors.

#### Recommended Rectangular Nano I/O to AlphaLink Contact Arrangements\*



\* 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.

To optimize the 40-contact AlphaLink board level connector, 40 contacts of a 51-contact size Nano connector can be used.



# Rectangular Nanominiature rear-panel-mount connectors to AlphaLink® SL flex jumper

## 891-041 • How to order

### SERIES 89 RECTANGULAR NANOMINIATURE INPUT/OUTPUT (I/O) REAR PANEL MOUNT CONNECTORS TO ALPHALINK® SL SPRING LOADED CONTACT BOARD LEVEL (B/L) CONNECTOR

How To Order 891-041										
<b>Sample Part Number</b>	<b>891-041</b>	-19	P	S	01	-28	2	T	-12	S
<b>Series / Basic Part No.</b>	Series 89 Rectangular Nanominiature rear panel mount V/PTH to Series 171 AlphaLink® SL									
<b>I/O Contact Arrangement</b>	See Table I									
<b>Contact Type</b>	P = Plug (See Table I) S = Receptacle (See Table III)									
<b>I/O Shell Material and Finish</b>	S = Stainless Steel, Passivated T = Titanium, Unplated									
<b>I/O Gasket Material</b>	Omit for no Gasket 01 = Fluorosilicone IAW MIL-DTL-25988, Type II, Class I, Grade 70 02 = Passivated Silver-Plated Aluminum filled Fluorosilicone IAW MIL-DTL-83528, Type "D" (CHO-Seal 1298 or equivalent)									
<b>AlphaLink® Layout</b>	See Table II									
<b>AlphaLink® Finish</b>	2 = Nickel 5 = Gold									
<b>AlphaLink® Hardware Option</b>	T = Threaded thru hole Omit for thru hole									
<b>Assembly Length (L)</b>	3 = 3.00 ± .05 inches 6 = 6.00 ± .05 inches 12 = 12.00 ± .05 inches									
<b>Optional Shielding</b>	S = With shielding Omit for none									

#### MATERIALS AND FINISHES

B/L connector shell: Aluminum alloy.  
 I/O shell: See P/N development  
 I/O Insulator: LCP  
 I/O Gasket: Fluorosilicone  
 I/O Contacts: Gold Alloy per ASTM B477 and ASTM B541  
 B/L Insulator: High-temperature thermoplastic rated UL94 V-0  
 B/L Contact: Copper Alloy/Gold Plated

#### NOTES

Input/Output Series 89 Nanominiature connector performance IAW MIL-DTL-32139  
 As a minimum, assembly identified with date code, and Pin 1 identifier. Bag and tag with Glenair part number, CAGE code, and date code.  
 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.

Unused Cavities in I/O panel mount connector to be populated with contacts.

B/L AlphaLink® SL interface dimensions IAW Glenair drawing 171-134-02. Interface shown for reference.

Unused cavities in B/L connector to be populated with contacts.

Flex Performance:

Shielding - EMI shielding film will be used when shielding option is chosen

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



# Rectangular Nanominiature rear-panel-mount plug to AlphaLink SL flex jumper

## 891-041 - Plug

### SERIES 89 RECTANGULAR NANOMINIATURE INPUT/OUTPUT (I/O) REAR PANEL MOUNT PLUG TO ALPHALINK SL SPRING LOADED CONTACT BOARD LEVEL (B/L) CONNECTOR

Table I: Panel Mount Plug Insert Arrangement					
Size	A Bsc.	B Bsc.	C Bsc.	E	F
9	.270 (6.9)	.160 (4.1)	.566 (14.4)	.688 (17.5)	.808 (20.5)
15	.345 (8.8)	.235 (6.0)	.641 (16.3)	.736 (18.7)	.883 (22.4)
21	.420 (10.7)	.310 (7.9)	.716 (18.2)	.838 (21.3)	.958 (24.3)
25	.470 (11.9)	.360 (9.1)	.766 (19.5)	.888 (22.6)	1.008 (25.6)
31	.545 (13.8)	.435 (11.0)	.841 (21.4)	.963 (24.5)	1.083 (27.5)
37	.620 (15.7)	.510 (13.0)	.916 (23.3)	1.038 (26.4)	1.158 (29.4)
51	.795 (20.2)	.685 (17.4)	1.091 (27.7)	1.213 (30.8)	1.333 (33.9)

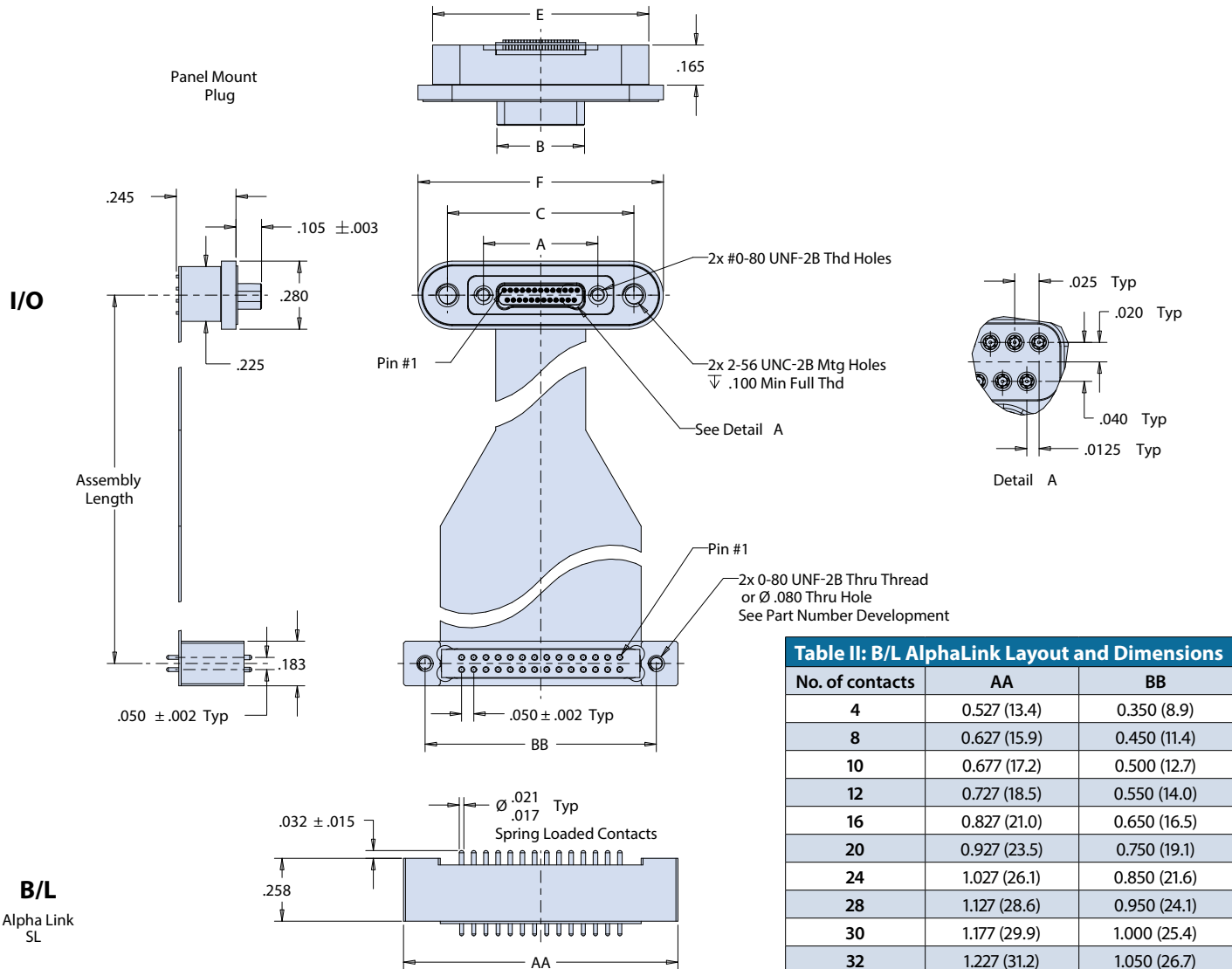


Table II: B/L AlphaLink Layout and Dimensions		
No. of contacts	AA	BB
4	0.527 (13.4)	0.350 (8.9)
8	0.627 (15.9)	0.450 (11.4)
10	0.677 (17.2)	0.500 (12.7)
12	0.727 (18.5)	0.550 (14.0)
16	0.827 (21.0)	0.650 (16.5)
20	0.927 (23.5)	0.750 (19.1)
24	1.027 (26.1)	0.850 (21.6)
28	1.127 (28.6)	0.950 (24.1)
30	1.177 (29.9)	1.000 (25.4)
32	1.227 (31.2)	1.050 (26.7)
36	1.327 (33.7)	1.150 (29.2)
40	1.427 (36.2)	1.250 (31.8)

# Rectangular Nanominiature rear-panel-mount receptacle to AlphaLink SL flex jumper

## 891-041 - Receptacle

### SERIES 89 RECTANGULAR NANOMINIATURE INPUT/OUTPUT (I/O) REAR PANEL MOUNT RECEPTACLE TO ALPHALINK SL SPRING LOADED CONTACT BOARD LEVEL (B/L) CONNECTOR

Table III: Panel Mount Receptacle Insert Arrangement						
Size	A Bsc	B Bsc.	C Bsc.	D	E	F
9	.270 (6.9)	.163 (4.1)	.566 (14.4)	.375 (9.5)	.688 (17.5)	.808 (20.5)
15	.345 (8.8)	.238 (6.0)	.641 (16.3)	.450 (11.4)	.736 (18.7)	.883 (22.4)
21	.420 (10.7)	.313 (8.0)	.716 (18.2)	.525 (13.3)	.838 (21.3)	.958 (24.3)
25	.470 (11.9)	.363 (9.2)	.766 (19.5)	.575 (14.6)	.888 (22.6)	1.008 (25.6)
31	.545 (13.8)	.438 (11.1)	.841 (21.4)	.650 (16.5)	.963 (24.5)	1.083 (27.5)
37	.620 (15.7)	.513 (13.0)	.916 (23.3)	.725 (18.4)	1.038 (26.4)	1.158 (29.4)
51	.795 (20.2)	.688 (17.5)	1.091 (27.7)	.900 (22.9)	1.213 (30.8)	1.333 (33.9)

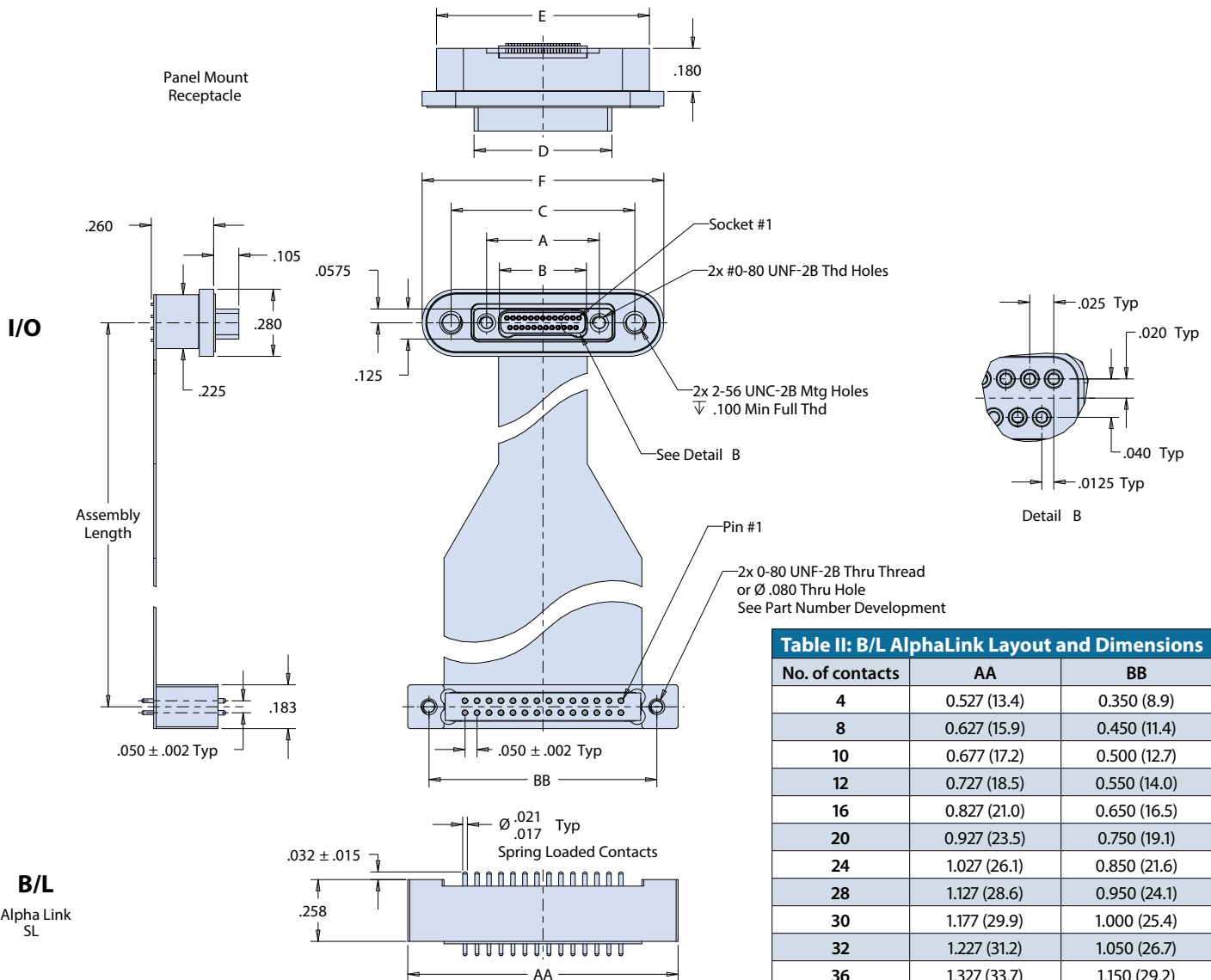


Table II: B/L AlphaLink Layout and Dimensions		
No. of contacts	AA	BB
4	0.527 (13.4)	0.350 (8.9)
8	0.627 (15.9)	0.450 (11.4)
10	0.677 (17.2)	0.500 (12.7)
12	0.727 (18.5)	0.550 (14.0)
16	0.827 (21.0)	0.650 (16.5)
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