



SuperFly to AlphaLink flex jumper

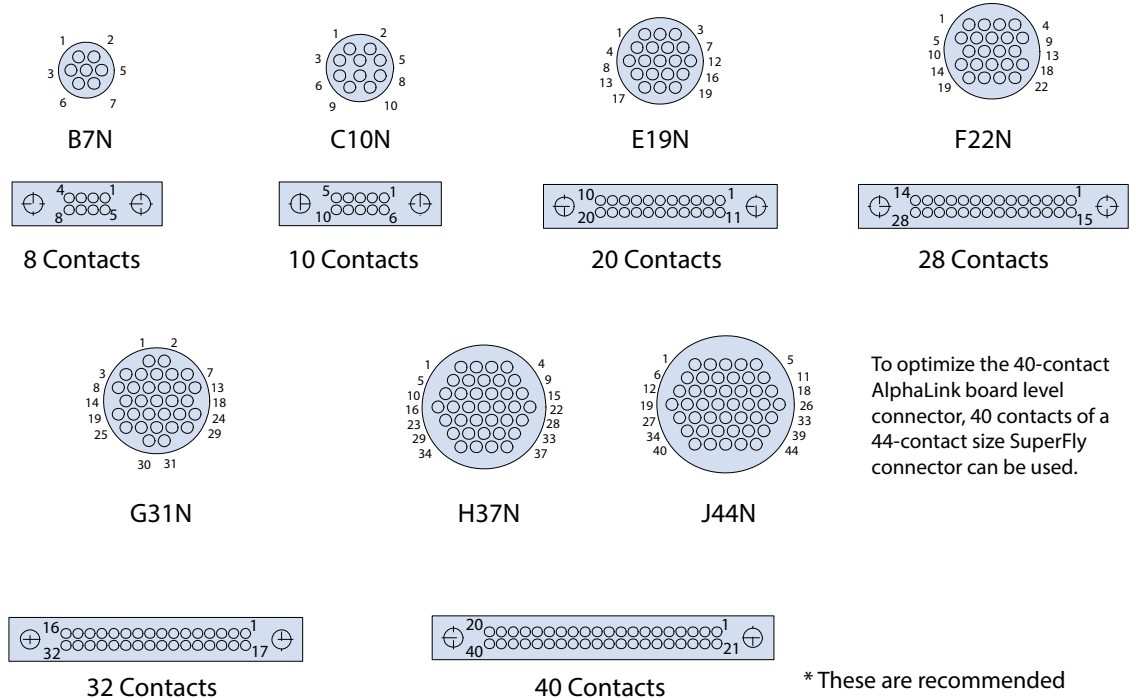
Superfly to AlphaLink Flex Jumpers

Glenair Series 88 SuperFly™ Cordsets represent a perfect storm of high-performance contacts, shells, wires, termination and mating technologies. SuperFly™ combines the weight-saving and performance advantages of nanominiature contacts in a precision package made to order for battlefield and other high-performance applications. Now available in turnkey flex jumper format for easy integration in printed circuit board applications, each SuperFly jumper ships with rugged Polyimide-based flex terminated to your choice of threaded or quick disconnect coupling SuperFly and an AlphaLink SL board level connector.



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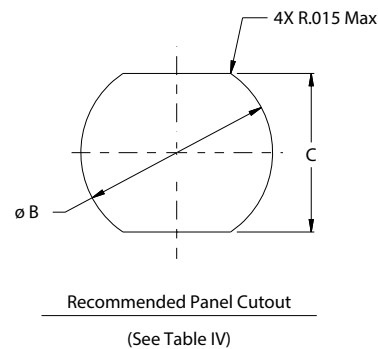
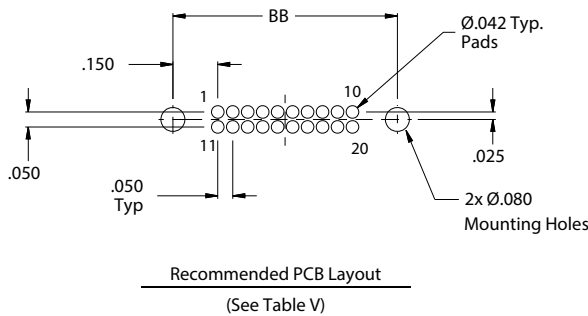
Recommended SuperFly I/O to AlphaLink Contact Arrangements*



To optimize the 40-contact AlphaLink board level connector, 40 contacts of a 44-contact size SuperFly connector can be used.

* 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.

Contact arrangements • materials and finishes • dimensions • PCB layout • panel cutout



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Table I - I/O Material/Finish		
Sym	Material	Finish
M	Aluminum Alloy	Electroless Nickel
ZR		Black Zinc-Nickel over Electroless Nickel
MT		Nickel-PTFE
NF		Olive drab over Cadmium
ZC	Stainless Steel	Black Zinc Cobalt
ZK		Passivate
ZMT		Nickel Teflon

Table III - Available I/O Insert Arrangement and B/L Assembly Pairs*			
Ins. Arr.	I/O Contact		B/L Layout
	Size	Qty	
B7N	Nano	7	8
C10N	Nano	10	10
E19N	Nano	19	20
F22N	Nano	22	28
G31N	Nano	31	32
H37N	Nano	37	40
J44N	Nano	44	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 - I/O Connector Panel Cutout Dimensions			
Shell Size	Ø A	Ø B	C Flats
B	.392 (10.0)	.283 (7.2)	.241 (6.1)
C	.412 (10.5)	.305 (7.7)	.261 (6.6)
E	.451 (11.5)	.344 (8.7)	.300 (7.6)
F	.471 (12.0)	.364 (9.2)	.320 (8.1)
G	.490 (12.4)	.383 (9.7)	.340 (8.6)
H	.530 (13.5)	.349 (8.9)	.379 (9.6)
J	.569 (14.5)	.459 (11.7)	.418 (10.6)

Table V - 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)

SuperFly quick-disconnect rear-panel-mount receptacle connector to AlphaLink® SL flex jumper

880-034

SERIES 88 SUPERFLY INPUT/OUTPUT (I/O) QDC RECEPTACLE TO ALPHALINK® SL SPRING LOADED CONTACT BOARD LEVEL (B/L) CONNECTOR

How To Order 880-034								
Sample Part Number	880-034R	A	-F22N	-M	-2	T	-6	S
Series / Basic Part No.	Series 88 SuperFly QDC I/O receptacle to Series 171 AlphaLink® SL							
I/O Insert Configuration	A = Unshrouded contacts (e.g. Nano socket) B = Shrouded contacts (e.g. Nano TwistPin)							
I/O Shell Size / Contact Arrangement	B7N, C10N, E19N, F22N, G31N, H37N, J44N (See Contact Arrangements and Table III, page 16 – 17)							
I/O Shell Material/Finish	(See Table I)							
AlphaLink® Finish	2 = Nickel 5 = Gold							
AlphaLink® Hardware Option	T = Threaded thru hole Omit for thru hole							
Assembly Length (L)	3 = 3.00 ± .05 inches 6 = 6.00 ± .05 inches 12 = 12.00 ± .05 inches							
Optional Shielding	S = With shielding Omit for none							

D

Sym	Material	Finish
M	Aluminum Alloy	Electroless Nickel
ZR		Black Zinc-Nickel over Electroless Nickel
MT		Nickel-PTFE
NF		Olive drab over Cadmium
ZC	Stainless Steel	Black Zinc Cobalt
ZK		Passivate
ZMT		Nickel Fluoropolymer

MATERIALS AND FINISHES

B/L connector shell: Aluminum alloy. I/O shell, jam nut: See Table I
 Insulator: High-temperature thermoplastic rated UL94 V-0
 Seals, grommet, O-ring: Fluorosilicone or equivalent
 Contacts: Copper Alloy/Gold Plated
 Potting: Epoxy

NOTES

Input/Output Series 88 SuperFly quick-disconnect receptacle:
 I/O connector will mate with all plug QDC SuperFly connectors with same polarization and opposite insert configuration.
 Insert arrangement per 889-001. See page 16 and 17, Table III for available arrangements. Unshrouded configurations are opposite of shrouded.
 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.
 See 880-032 for other connector dimensions

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 on Table III

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

SuperFly quick-disconnect rear-panel-mount receptacle connector to AlphaLink SL flex jumper

880-034

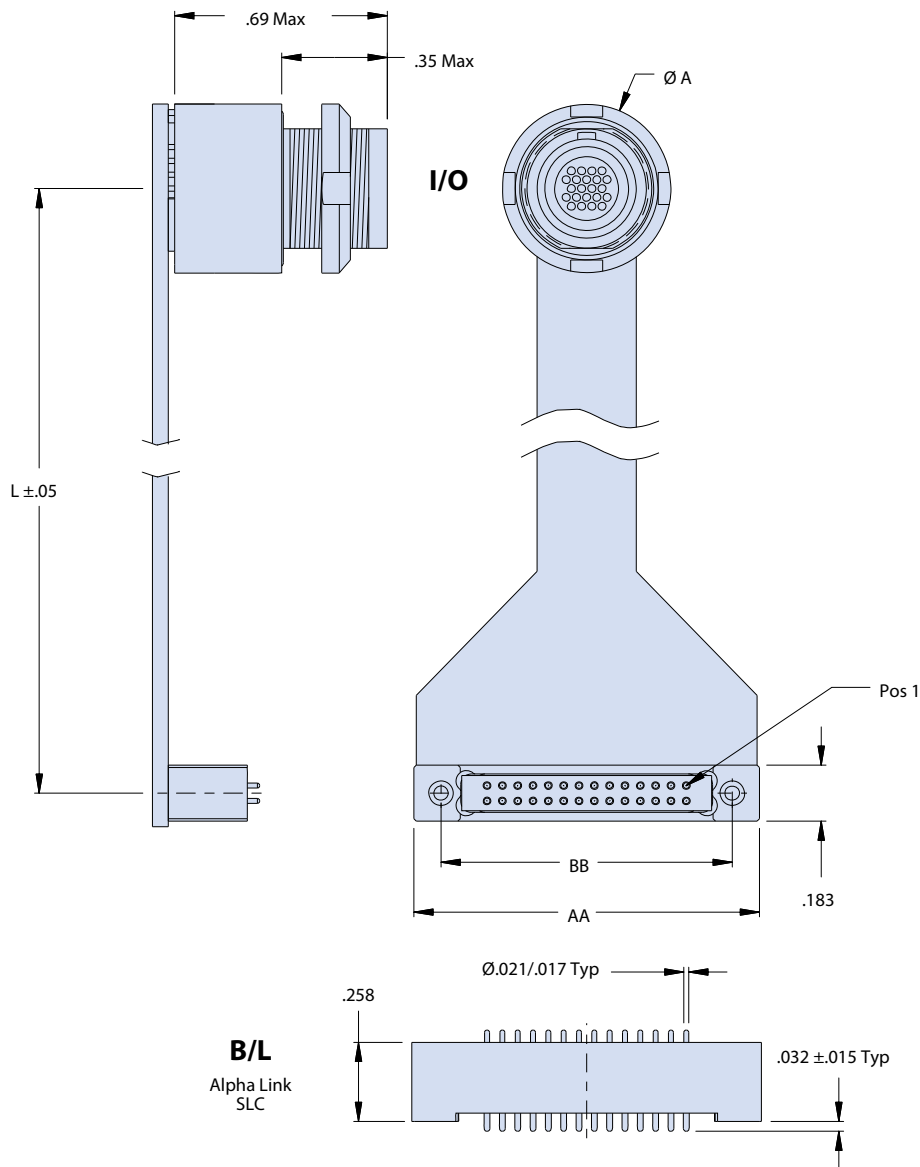


Table IV - I/O Connector Dimensions

Shell Size	Ø A	Ø B	C Flats
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Table V - B/L Connector Dimensions

Layout	AA	BB
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SUPERFLY TO ALPHALINK® FLEX JUMPERS

SuperFly threaded rear-panel-mount receptacle connector to AlphaLink® SL flex jumper



881-021

SERIES 88 SUPERFLY INPUT/OUTPUT (I/O) THREADED RECEPTACLE TO ALPHALINK® SL SPRING LOADED CONTACT BOARD LEVEL (B/L) CONNECTOR

How To Order 881-021	
Sample Part Number	881-021R A -F22N -M -2 T -6 S
Series / Basic Part No.	Series 88 SuperFly QDC I/O receptacle to Series 171 AlphaLink® SL
I/O Insert Configuration	A = Unshrouded contacts (e.g. Nano socket) B = Shrouded contacts (e.g. Nano TwistPin)
I/O Shell Size / Contact Arrangement	B7N, C10N, E19N, F22N, G31N, H37N, J44N (See Contact Arrangements and Table III, page 16 – 17)
I/O Shell Material/Finish	(See Table I)
AlphaLink® Finish	2 = Nickel 5 = Gold
AlphaLink® Hardware Option	T = Threaded thru hole Omit for thru hole
Assembly Length (L)	3 = 3.00 ± .05 inches 6 = 6.00 ± .05 inches 12 = 12.00 ± .05 inches
Optional Shielding	S = With shielding Omit for none

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ZMT		Nickel Fluoropolymer

MATERIALS AND FINISHES

B/L connector shell: Aluminum alloy. I/O shell, jam nut: See Table I
 Insulator: High-temperature thermoplastic rated UL94 V-0
 Seals, grommet, O-ring: Fluorosilicone or equivalent
 Contacts: Copper Alloy/Gold Plated
 Potting: Epoxy

NOTES

Input/Output Series 88 SuperFly threaded receptacle:
 I/O connector will mate with all plug threaded SuperFly connectors with same polarization and opposite insert configuration.
 Insert arrangement per 889-001. See page 16 and 17, Table III for available arrangements. Unshrouded configurations are opposite of shrouded.
 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.
 See 881-019 for other connector dimensions

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 on Table III

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

SuperFly threaded rear-panel-mount receptacle connector to AlphaLink SL flex jumper

881-021

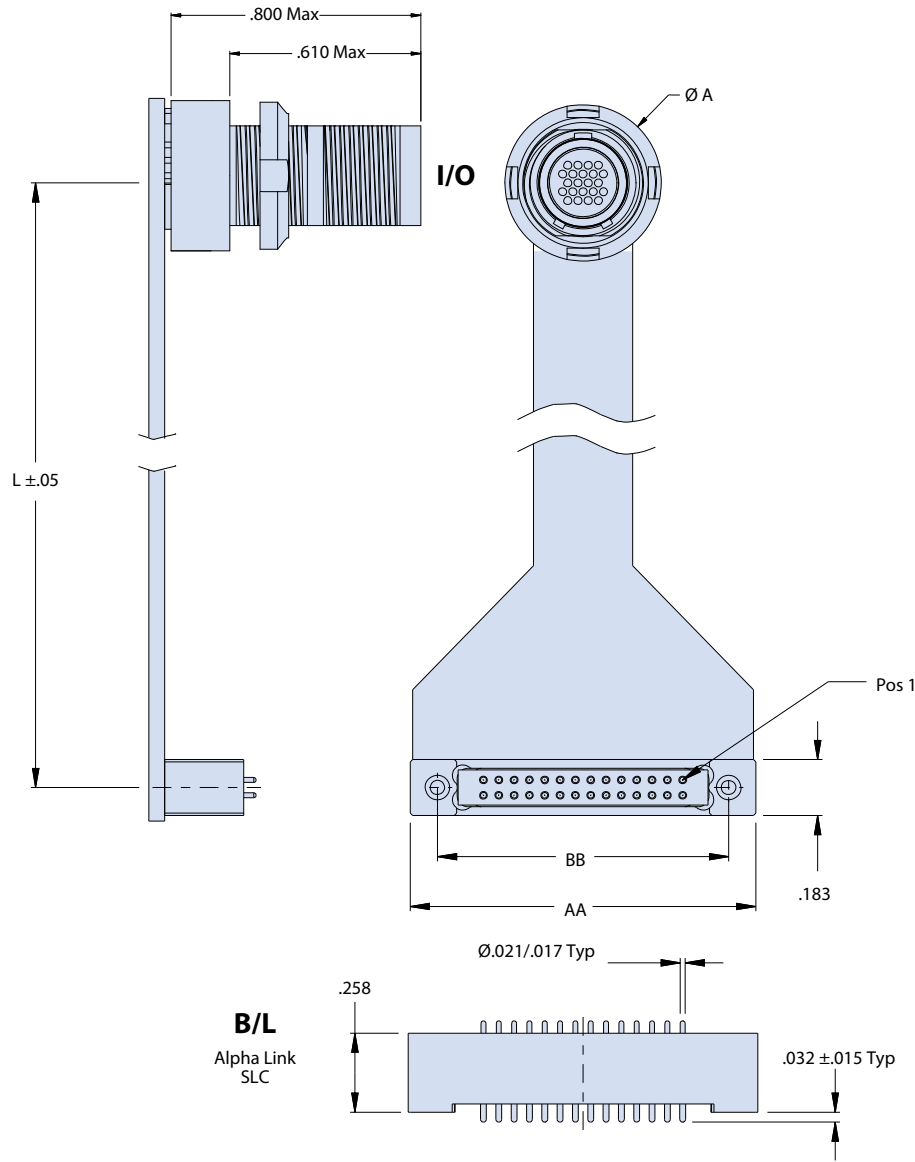


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