SERIES 89 NANOMINIATURE **Dual-Row Rectangular Connectors**



891-005 Back-to-Back Cable Assembly



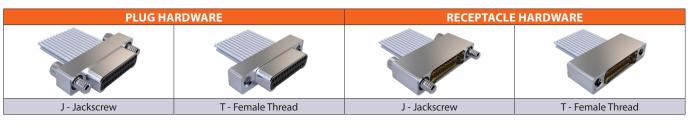
Glenair Back-To-Back Cable Assemblies are offered in three configurations and feature gold alloy TwistPin contacts. Contacts are precisioncrimped to insulated, stranded wire. These nanominiature connectors offer premium performance and reliability for demanding applications. Contact rating, DWV rating 250 volts AC. Wire gages #30 and #32 AWG. Connectors are wired 1 to 1, 2 to 2, 3 to 3 etc.

TwistPin Contact System assures premium performance in demanding environments. The gold alloy contacts will stand up to years of exposure ion.

	spacing is .025 inche	s. 1 amp cur	rent	wit	hout corr	osion			
	ноw то о	RDER							
Sample Part Nun	nber	891-005	-9	GP	A1	-0	Α	1	-12
Series	891-005 Back-To-Back Cables, Dual-Row, Nanominiature								
Contact Layout	9, 15, 21, 25, 31, 37, 41, 51, 65, 69, 85, 91								
Connector Type	TYPESIDE 1SIDE 2GPPlugPlugGSReceptacleReceptacleCSPlugReceptacle			_					
ihell Material Ind Finish	A31 = Aluminum Shell, Zinc Nickel Plating, Black A33 =	luminum Shell, Aluminum She iinless Steel She	ll, Nicke	el PTFE F	5				
Wire Gage	0 = #30 AWG (Wire types A, B, C, E, and F) 2 = #32 AWG (Wire Type B only)								
Wire Type	 A = Ultra Lightweight XLETFE Insulation, Silver Coated Ultra High Strength Copper. B = Extruded PTFE Insulation, Silver Coated Copper NEMA HP3-ETX (MIL-W-16878/6) C = Cross Linked Modified ETFE Insulation, Silver Coated High Strength Copper. SAE AS22759/33-30 E = Cross Linked Modified ETFE Insulation, Low Fluoride, Lightweight, Silver Coated High Strength Copper Alloy. SAE AS22759/51-30 F = Cross Linked Modified ETFE Insulation, Low Fluoride, Lightweight, Silver- Coated Copper, SAE AS22759/52-30 								
Wire Color Code	1= White 2 = Yellow 7 = 10 Color Repeating (wire type A is striped, types B, C, E, and F are solid colors)								
Overall Length	In Inches Including Connectors; Example: "12" specifies 1	In Inches Including Connectors; Example: "12" specifies 12 inches OAL; 2" minimum							
Hardware	JJ = Jackscrews on both ends (GP, GS, CS) JT = Jackscrews on plug, threaded holes on receptacle (C	S) TJ = Jacl	kscrews	on rece	eptacle, thre eptacle, thre oth ends (GI	eaded h			

JP = Jackscrews on plug, threaded holes on plug (GP) TT = Threaded holes both ends (GP, CS)

(Stainless steel threaded inserts installed in aluminum shells, tapped directly into stainless steel and titanium)



Contact Spacing: .025" (0.64) contact centers Wire Accommodation: #30-#32 AWG Current Rating: 1 AMP maximum tested per EIA-364-70 DWV: 250 VAC RMS sea level, 100 VAC RMS

70,000 feet per EIA-364 Procedure 20 Insulation Resistance: 5000 Megohms minimum test voltage 100 VDC, per EIA-364 Procedure 21

C-10

PERFORMANCE SPECIFICATIONS

Operating Temperature: -55° C. to +125° C. Contact Resistance: 71 millivolt drop maximum, 1 AMP current, any catalog supported wire type Vibration: 20 g's, IAW EIA-364-28, Condition IV Shock: 100 g's, IAW EIA-364-27, Condition G

Durability: 200 mating cycles per test procedure EIA-364-09

Corrosion Resistance: 48 hours salt spray IAW EIA-364-26, Condition B

Humidity: 240 hours, IAW EIA-364-31, Test Condition B

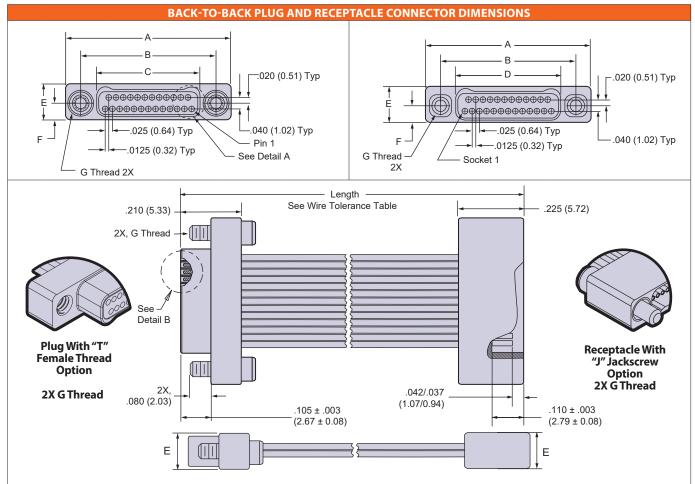
Contact Engaging/Separation Force: 5 ounce maximum, 0.4 ounce minimum

Thermal Vacuum Outgassing: Total mass loss (TML) 1.0% max., volatile condensable material (VCM) 0.1% max. IAW ASTM E595

SERIES 89 NANOMINIATURE Dual-Row Rectangular Connectors

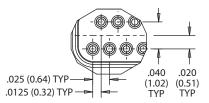


891-005 Back-to-Back Cable Assembly

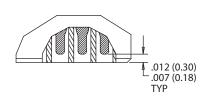


Layout	A ±.005(0.13)	B BSC.	C BSC. (Plug)	D BSC (Receptacle)	E ± .005(0.13)	F	G Thread
9	.375 (9.52)	.270 (6.86)	.160 (4.06)	.163 (4.14)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
15	.450 (11.43)	.345 (8.76)	.235 (5.97)	.238 (6.05)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
21	.525 (13.34)	.420 (10.67)	.310 (7.87)	.313 (7.95)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
25	.575 (14.60)	.470 (11.94)	.360 (9.14)	.363 (9.22)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
31	.650 (16.51)	.545 (13.84)	.435 (11.05)	.438 (11.13)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
37	.725 (18.42)	.620 (15.75)	.510 (12.95)	.513 (13.03)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
41	.775 (19.68)	.670 (17.02)	.560 (14.22)	.563 (14.30)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
51	.900 (22.86)	.795 (20.19)	.685 (17.40)	.688 (17.48)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
65	1.075 (27.30)	.970 (24.64)	.860 (21.84)	.863 (21.92)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
69	1.125 (28.58)	1.020 (25.91)	.910 (23.11)	.913 (23.19)	.125 (3.18)	.0575 (1.46)	#0-80 UNF
85	1.377 (34.98)	1.246 (31.65)	1.110 (28.19)	1.113 (28.27)	.150 (3.81)	.0700 (1.78)	#2-56 UNC
91	1.452 (36.88)	1.321 (33.55)	1.185 (30.10)	1.188 (30.18)	.150 (3.81)	.0700 (1.78)	#2-56 UNC

DETAIL A (PLUG)



DETAIL B (PLUG)



WIRE LENGTH TOLERANCE				
Length Range	Tolerance			
3″ - 48″	+0.50/-0.00			
(76.20 - 1219.20)	(+ 12.70/-0.00)			
>48" - 72"	+1.00/-0.00			
(>1219.20 - 1828.80)	(+25.4/-0.00)			
>72" - 120"	+2.00/-0.00			
(>1828.80 - 3048.00)	(+50.80/-0.00)			

NOTES

- 1. Material and finish:
- Shell: see part number breakdown
- Insulator: LCP N/A
- Contacts: gold alloy/unplated
- Wire: see part number breakdown
- Hardware: stainless steel, passivated
- 2. Inspect and Test IAW MIL-DTL-32139
- Interface dimensions per MIL-DTL-32139/3 and MIL-DTL-32139/4
- 4. Connectors Wired 1 to 1, 2 to 2, 3 to 3, etc.