

Series 970 PowerTrip™ Connectors and Accessories
Receptacle Connectors
970-004 Jam Nut Receptacle



970-004 JAM NUT RECEPTACLES



Series 970 PowerTrip™ extreme environment receptacle connectors are intended for high current applications where size 8 AWG to size 1/0 AWG wires are used. These connectors feature high current LouverBand contacts. Coupling threads are triple-start ACME type. EMI protected with ground spring and splined backshell interface. Standard contacts are silver plated high conductivity copper alloy, or choose gold-plated contacts for improved corrosion protection. Fluorosilicone rubber gaskets and grommets provide watertight sealing. Contacts are packaged with connector.

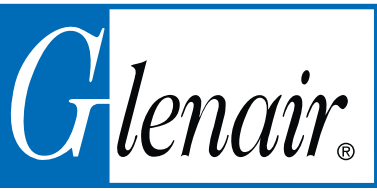
- EMI Protected
- High Current Contacts
- Splined Backshell Interface
- Ratchet Self-Locking

PRODUCT FACTS	
2000 VAC Sea Level DWV Rating	
-65°C to +200°C Operating Temperature	
6 Feet Water Immersion, 48 Hours	
65 dB min. Attenuation, up to 10GHz	
500 Cycles Mating Durability	
MIL-S 901 Grade A High-Impact Shock	
43 g Random Vibration	

HOW TO ORDER

SERIES	SHELL MATL AND FINISH	SHELL SIZE - INSERT ARRANGEMENT					CONTACT TYPE AND PLATING	KEY POSITION	
		Contact Arr.	Contact Size and Qty						
		#16	#12	#8	#4	#1/0			
970-004 Jam Nut Receptacle, for Rear Panel Mounting	ME Aluminum, Electroless Nickel Finish			2			P1 Pin Contacts, Silver Plating*	-1 Position 1	
	MT Aluminum, Nickel-PTFE Finish	18-2			2			P2 Pin Contacts, Gold Plating	-2 Position 2
		18-4		2	2				
		20-3			3				
		20-4			4				
		20-5		2	3				
		20-7	4		3				
		24-2				2			
		24-3				3			
		24-5			5				
		24-6		4		2			
	NF Aluminum, Olive Drab Cadmium	24-A6		3		3		S1 Socket Contacts, Silver Plating*	-3 Position 3
		28-4				4			
		28-8		1	7				
		28-9	5			4			
		28-15	15						
		32-2					2		
		32-3					3		
		32-4				2	2		
	ZR Aluminum, Black Zinc-Nickel Finish	32-5				5		S2 Socket Contacts, Gold Plating	-4 Position 4
32-6			3			3			
32-20		1	19						
36-4						4			
36-16		3		13					
40-5						5			
Z1 Passivated Stainless Steel	40-21			21			A Pin Connector, Supplied without Contacts	-5 Position 5	
							B Socket Connector, Supplied without Contacts	-6 Position 6	
* Size 12 and 16 contacts are gold-plated. Size 8, 4 and 1/0 are silver plated.									
Sample Part Number									
970-004	MT	24-5					P1	-1	



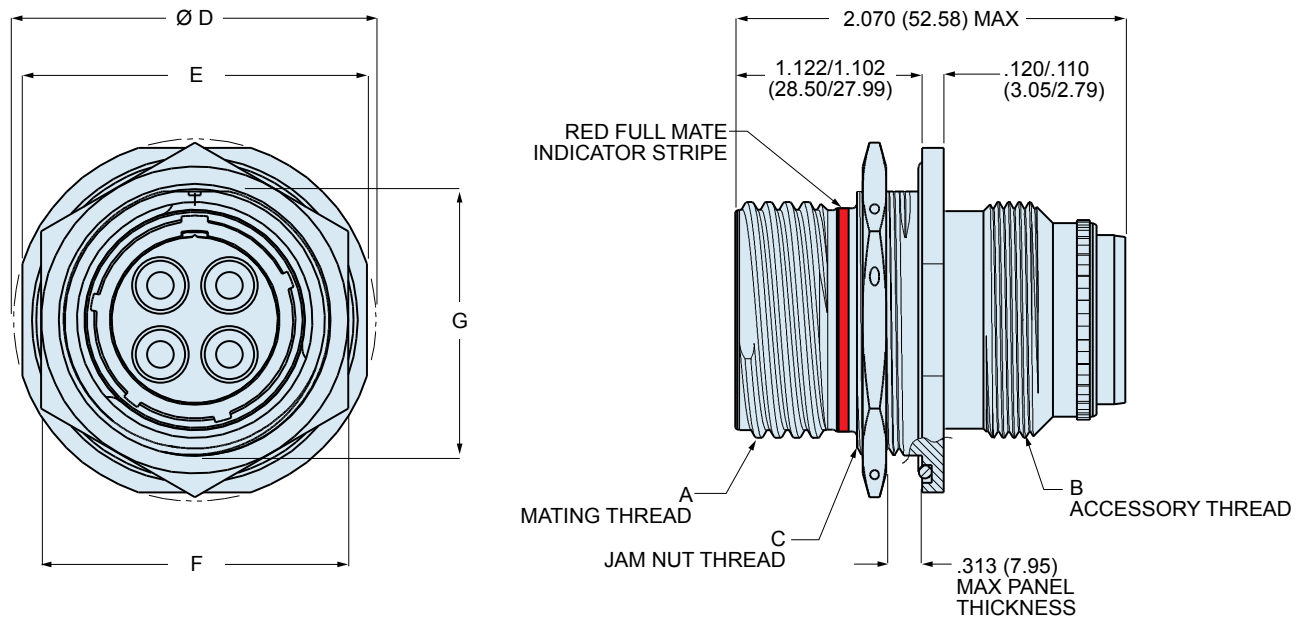


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Receptacle Connectors

970-004 Jam Nut Receptacle

970-004 JAM NUT RECEPTACLE



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DIMENSIONS											
Shell Size	A Mating Thd.	B Accessory Thd.	C Jam Nut Thd.	$\varnothing D$		E		F		G	
				In.	mm.	In.	mm.	In.	mm.	In.	mm.
18	1.125-.1P-.3L-TS-2A	1.125-18 UNEF-2A	1.250-18 UNEF-2A	1.733	44.02	1.639	41.63	1.438	36.53	1.212	30.78
20	1.250-.1P-.3L-TS-2A	1.250-18 UNEF-2A	1.4375-18 UNEF-2A	1.921	48.79	1.827	46.41	1.625	41.28	1.399	35.53
24	1.500-.1P-.3L-TS-2A	1.4375-18 UNEF-2A	1.625-18 UNEF-2A	2.108	53.54	2.014	51.16	1.822	46.28	1.587	40.31
28	1.750-.1P-.3L-TS-2A	1.8125-16 UN-2A	1.9375-16 UN-2A	2.425	61.60	2.327	59.11	2.188	55.58	1.899	48.23
32	2.000-.1P-.3L-TS-2A	2.0625-16 UNS-2A	2.125-16 UN-2A	2.607	66.24	2.513	63.83	2.375	60.33	2.084	52.93
36	2.250-.1P-.3L-TS-2A	2.250-16 UN-2A	2.375-16 UN-2A	2.857	72.57	2.763	70.18	2.625	66.68	2.323	59.00
40	2.500-.1P-.3L-TS-2A	2.500-16 UN-2A	2.625-16 UN-2A	3.107	78.92	3.013	76.53	2.875	73.03	2.548	64.72

KEY POSITIONS				
Position	A°	B°	C°	D°
1	80	142	196	293
2	135	170	200	310
3	49	169	200	244
4	66	140	200	257
5	62	145	180	280
6	79	153	197	272

PANEL CUTOUT				
Shell Size	Diameter		Flat	
	In.	mm.	In.	mm.
		-.000 +.010	-.00 +0.25	-.000 +.010
18	1.265	32.13	1.217	30.91
20	1.452	36.88	1.409	35.79
24	1.640	41.66	1.596	40.54
28	1.952	49.58	1.910	48.51
32	2.140	54.36	2.092	53.14
36	2.390	60.71	2.342	59.49
40	2.640	67.06	2.557	64.95

