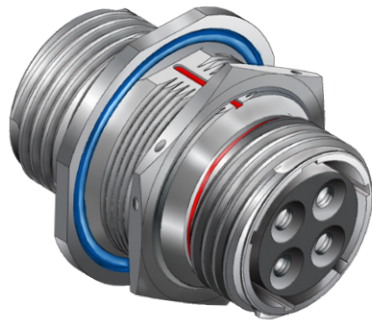




Jam Nut Receptacles

970-006 Bulkhead Feed-Thru Jam Nut Receptacle



970-006 bulkhead feed-thru jam nut receptacle has pin contacts on one side and socket contacts on the other side. Mount to bulkhead and attach mating plug connectors to both sides. Aluminum or stainless steel shell has five polarizing keyways. Coupling threads are triple-start ACME type. Contacts are factory-installed and are not removable. PowerTrip connectors feature low resistance LouverBand contacts and are designed to withstand extreme environments.

- Quick-disconnect, high shock, high vibration, self-locking connector
- 2000 VAC (DWV)
- -65° to +200 °C
- Plug has EMI ground spring
- Crimp, rear-release contacts
- Advanced IP68+ sealing

JAM NUT RECEPTACLES

INSERT ARRANGEMENTS						
Insert Arr.	Contact Size and Quantity					
	#16	#12	#8	#4	#1/0	#2/0
18-2			2			
18-4		2	2			
20-3			3			
20-4			4			
20-5		2	3			
20-7	4		3			
24-1					1	
24-2				2		
24-3				3		
24-5			5			
24-6		4		2		
24-A1						1
24-A6		3		3		
28-12	6		6			
28-15	15					
28-4				4		
28-8		1	7			
28-9	5			4		
32-12	2		10			
32-2					2	
32-20	1	19				
32-3					3	
32-4				2	2	
32-5				5		
32-6		3			3	
32-7				7		
32-A22		22				
36-16	3		13			
36-2						2
36-4					4	
36-9	14	14	2	1		
36-A8				8		
36-B8	4				4	
40-10	16		9	4		
40-21			21			
40-5					5	

HOW TO ORDER							
Sample Part Number	→	970-006	ME	32-2	P	2	-1
Basic Part Number	970-006 Feedthrough Bulkhead Jam Nut Receptacle						
Material/Finish	ME = Aluminum / Electroless Nickel MT = Aluminum / Nickel PTFE NF = Aluminum / Olive Drab Cadmium TZ = Aluminum / Tin-Zinc ZR = Aluminum / Black Zinc-Nickel Z1 = Stainless Steel / Passivated						
Shell Size-Insert Arr.	See "Insert Arrangements" Table						
Contact Designator	P = Pin Contacts on Jam Nut Side (sockets opposite) S = Socket Contacts on Jam Nut Side (pins opposite)						
Contact Plating	1 = Silver* 2 = Gold * Size 8, 4, 1/0 and 2/0 are silver plated. Size 12 and 16 contacts are gold-plated.						
Panel Thickness	Omit = .50 (12.7) max panel thickness B = .95 (24.1) max panel thickness C = 1.40 (35.6) max panel thickness						
Keyway Position	-1, -2, -3, -4, -5, or -6						

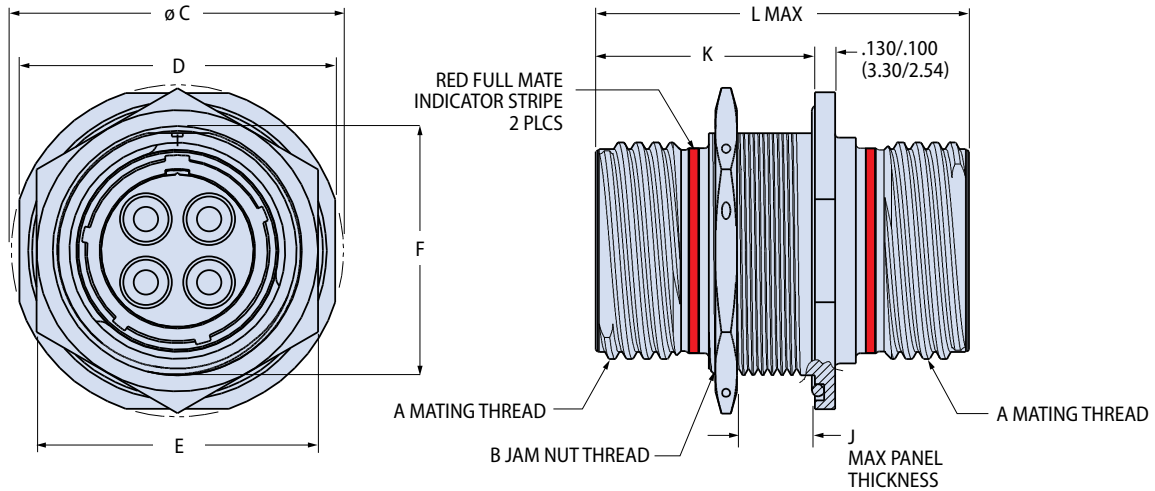
RATINGS
Voltage (DWV): 2000 Volts AC
Current: Size 16 contact 13 amps Size 12 contact 23 amps Size 8 contact 60 amps Size 4 contact 100 amps Size 1/0 contact 175 amps Size 2/0 contact 205 amps
Operating temperature: Matl/Finish Codes ME, Z1: -65° to +200°C Codes MT,NF, TZ, ZR: -65 to +175 °C
Durability: 500 mating cycles
EMI shielding effectiveness: 65 dB min. 100 MHz to 10 GHz
Shock: 50 g
Vibration: per MIL-DTL-38999 Series III MIL-S-901 high impact shock: Grade A
Altitude immersion: 75,000 feet
Ingress protection: IP67
Water pressure: 6 feet, 48 hours

CONSTRUCTION
Contacts: size #8 and larger: high conductivity copper alloy, gold or silver plated. Size #12, #16: copper alloy, gold plated
Shell, jam nut: Aluminum or stainless steel, see How to Order
Insulator: Glass-filled thermoset epoxy
Face seal: Fluorosilicone
O-ring: Fluorosilicone

Jam Nut Receptacles

970-006 Jam Nut Feed-Thru Receptacle

JAM NUT RECEPTACLES



DIMENSIONS										
Shell Size	A Mating Thd.	B Jam-Nut Thd.	ϕC	D		E		F		
			In.	mm.	In.	mm.	In.	mm.	In.	mm.
18	1.125-1P-.3L-TS-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	1.4375-18 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	1.625-18 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	1.9375-16 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	2.125-16 UN-2A	2.607	66.24	2.513	63.86	2.375	60.33	2.084	53.01
36	2.250-1P-.3L-TS-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	2.625-16 UN-2A	3.107	78.92	3.013	76.53	2.875	73.03	2.548	64.72

PANEL THICKNESS DIMENSIONS						
Panel Thickness Option	J Max		K Max		L Max	
	In.	mm.	In.	mm.	In.	mm.
No Designator	.500	12.7	1.328	33.7	2.260	57.4
B	.950	24.1	1.801	45.7	2.739	69.6
C	1.400	35.6	2.274	57.8	3.215	81.7

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.
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

RECOMMENDED JAM NUT TORQUE	
Shell Size	Min-Max (in-lb.)
18	80-85
20	100-110
24	110-120
28	145-155
32	170-180
36	190-200
40	210-220