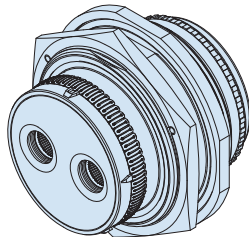




## Jam Nut Plugs

### 970-040 Blind Mate with Crimp Rear Release



970-040 blind mate jam nut plug with crimp rear release has pin contacts on one side and socket contacts on the other side. 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 →	970-040	MT	32-2	S	1	-1
<b>Basic Part Number</b>	970-040 Blind Mate Jam Nut Plug with Crimp Rear Release					
<b>Material/Finish</b>	ME = Aluminum / Electroless Nickel MT = Aluminum / Nickel PTFE NF = Aluminum / Olive Drab Cadmium ZR = Aluminum / Black Zinc-Nickel Z1 = Stainless Steel / Passivated ZMT = Stainless Steel / Nickel PTFE					
<b>Shell Size-Insert Arr.</b>	See "Insert Arrangements" Table					
<b>Contact Designator</b>	P = Pin Contact      S = Socket Contact A = Pin Connector, Less Contacts B = Socket Connector, Less Contacts					
<b>Contact Plating</b>	1 = Silver - Size 8, 4, 0, and 2/0 Only 2 = Gold					
<b>Keyway Position</b>	-1, -2, -3, -4, -5, or -6					

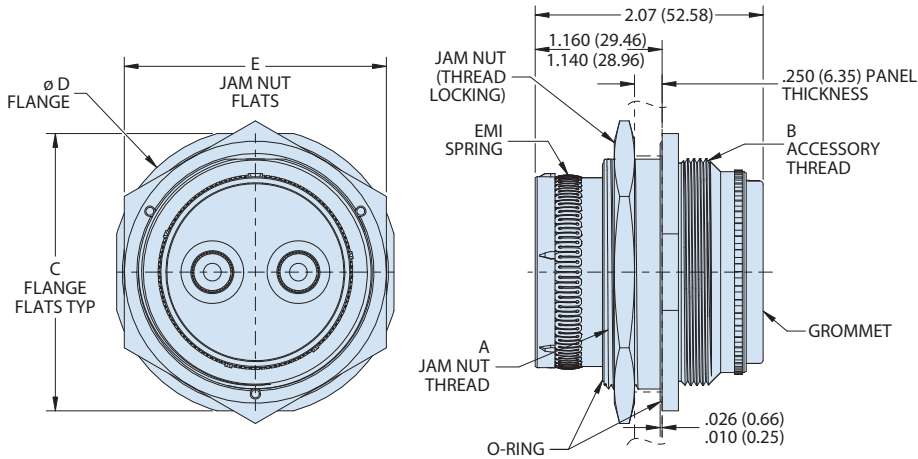
RATINGS
<b>Voltage (DWV):</b> 2000 Volts AC
<b>Current:</b> Size 16 contact 13 amps Size 12 contact 23 amps Size 8 contact 60 amps Size 4 contact 100 amps Size 1/0 contact 175 amps Size 2/0 contact 205 amps
<b>Operating temperature:</b> Matl/Finish Codes ME, Z1: -65° to +200°C Codes MT, NF, ZR: -65 to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

CONSTRUCTION
<b>Contacts:</b> Copper alloy, see How to Order.
<b>Shell, jam nut:</b> Aluminum or stainless steel, see How to Order
<b>Insulator:</b> High grade rigid dielectric
<b>Seals:</b> Fluorosilicone
<b>O-ring:</b> Fluorosilicone
<b>Washer:</b> PTFE

Jam Nut Plugs

970-040 Blind Mate with Crimp Rear Release

JAM NUT RECEPTACLES



DIMENSIONS								
Shell Size	A Jam Nut Thread	B Accessory Thread	C		$\phi D$		E	
			In.	mm.	In.	mm.	In.	mm.
18	1.250-18UNEF-2A	1.125-18UNEF-2A	1.639	41.63	1.733	44.02	1.438	36.53
20	1.4375-18UNEF-2A	1.250-18UNEF-2A	1.827	46.41	1.921	48.79	1.625	41.28
24	1.625-18UNEF-2A	1.4375-18UNEF-2A	2.014	51.16	2.108	53.54	1.822	46.28
28	1.9375-16UN-2A	1.8125-16UN-2A	2.327	59.11	2.425	61.59	2.188	55.58
32	2.125-16UN-2A	2.0625-16UN5-2A	2.513	63.83	2.607	66.22	2.375	60.33
36	2.375-16UN-2A	2.250-16UN-2A	2.763	70.18	2.857	72.57	2.625	66.68
40	2.625-16UN-2A	2.500-16UN-2A	3.013	76.53	3.107	78.92	2.875	73.02

PANEL OPENING				
	$\phi F$		G FLAT	
Shell Size	$\phi F$ $\begin{smallmatrix} +.010 \\ -.000 \end{smallmatrix}$		G $\begin{smallmatrix} +.010 \\ -.000 \end{smallmatrix}$	
	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

KEY POSITIONS				
	A	B	C	D
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