

Series 970 PowerTrip™ Connectors and Accessories Thru-BulkHead Receptacles

970-006



970-006 FEED-THRU BULKHEAD RECEPTACLES



Series 970 PowerTrip™ feed-thru bulkhead jam nut receptacles have pin contacts on one side and socket contacts on the other side. Mount to bulkhead and attach mating plug connectors to both sides. Coupling threads are triple-start ACME type. Contacts are factory-installed and are non-removable. Standard contacts are silver plated high conductivity copper alloy for excellent conductivity, or choose gold-plated contacts for improved corrosion protection. Jam nut mount available for panel thicknesses from 1/16 inch (1.58mm) up to 1.4 inches (35.56mm).

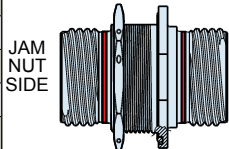
- EMI Protected
- High Current Contacts
- Submersible
- Harsh Environment

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

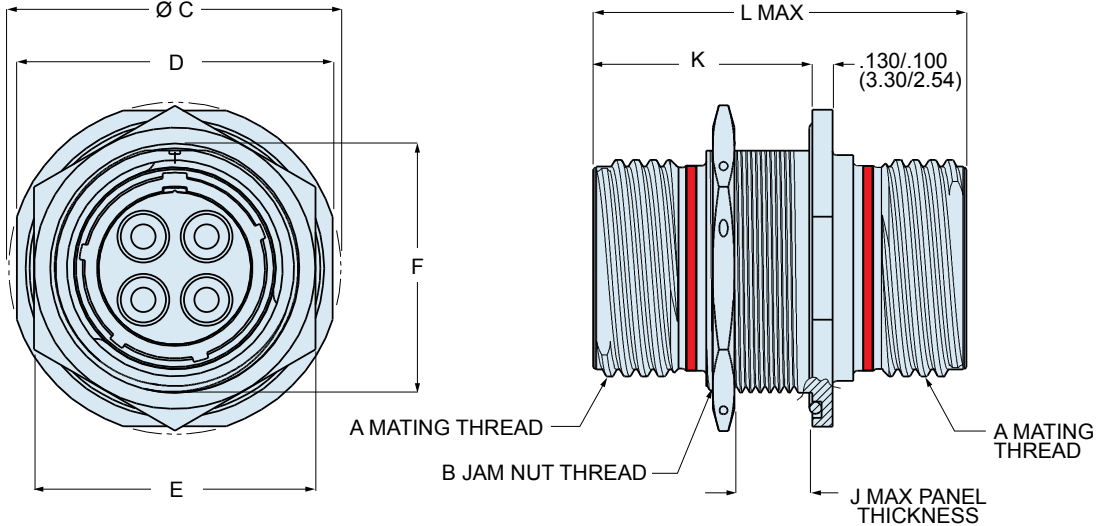
SERIES	SHELL MATL AND FINISH	SHELL SIZE - INSERT ARRANGEMENT					CONTACT TYPE	CONTACT PLATING	PANEL THICKNESS	KEY POSITION			
		Cont. Arr.	Contact Size and Qty										
			#16	#12	#8	#4	#1/0						
970-006 Series 970 Feed-Thru Bulkhead Receptacle, Jam Nut Mounting	ME Aluminum, Electroless Nickel Finish	18-2			2			P Pin Contacts on Jam Nut Side	1 Silver Plated Power Contacts (size 1/0, 4 and 8) and Gold Plated Signal Contacts	BLANK (Standard) .500 in max panel thickness	-1 Position 1		
		18-4		2	2						-2 Position 2		
		20-3			3						-3 Position 3		
	20-4			4			-4 Position 4						
	20-5		2	3			-5 Position 5						
	20-7	4		3			-6 Position 6						
	MT Aluminum, Nickel-PTFE Finish	24-2				2				S Socket Contacts on Jam Nut Side	2 Gold Plated Contacts	B .950 max panel thickness	
		24-3				3							
		24-5			5								
	24-6		4	2									
	24-A6		3	3									
	28-4				4								
	ZR Aluminum, Black Zinc-Nickel Finish	28-8		1	7								
		28-9	5			4							
		28-15	15										
	Z1 Passivated Stainless Steel	32-2					2						
		32-3					3						
		32-4				2	2						
		32-5				5							
		32-6		3			3						
		32-20	1	19									
36-4						4							
36-16		3		13									
40-5					5								
40-21				21									
Sample Part Number													
970-006	MT		24-5				P	1		-1			





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Thru-BulkHead Receptacles
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970-006 FEED-THRU RECEPTACLE



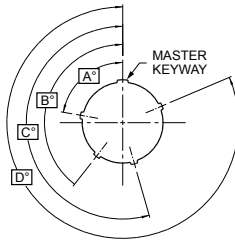
DIMENSIONS

Shell Size	A Mating Thd.	B Jam Nut Thd.	ø C		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

E

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	-.00 +0.25
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

TABLE III: PANEL THICKNESS

Panel Option	J Max		K		L Max	
	In.	mm.	In.	mm.	In.	mm.
Blank (std.)	.500	12.70	1.328/1.298	33.73/32.97	2.260	57.40
B	.950	24.13	1.801/1.771	45.75/44.98	2.733	69.42
C	1.400	35.56	2.274/2.244	57.76/57.00	3.206	81.43

