SERIES 970 HERMETIC FEED-THRU BULKHEAD



Series 970 PowerTrip™ hermetic feed-thru bulkhead receptacles have pin contacts on one side and socket contacts on the other side. Attach mating plug connectors to both sides. Compression glass hermetic seal. 100% tested to meet helium leak rate of 1 x 10^{-7} cc/second at 15 psi pressure differential. . Contacts are factory-installed and are non-removable. Standard contacts are silver plated, or choose gold-plated contacts for improved corrosion protection. Jam nut rear panel mounting, for panel thicknesses from 1⁄16 inch (1.58mm) to ½ inch (12.7mm).

- **EMI Protected**
- **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

970-007
Series 970 Feed-Thru Bulkhead Receptacle, Jam Nut Mounting, Hermetic

SHELL MATL AND FINISH

Stainless Steel Shell

Z1
Passivated

ZL
Electrodeposited Nickel

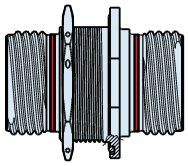
SHELL SIZE - INSERT ARRANGEMENT

Cont. Arr.	Contact Size and Qty				
	#16	#12	#8	#4	#1/0
18-2			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	
24-A6		3		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
32-5				5	
32-6		3			3
32-20	1	19			
36-4					4
36-16	3		13		
40-5					5
40-21			21		

CONTACT TYPE

P
Pin Contacts on Jam Nut Side

S
Socket Contacts on Jam Nut Side



CONTACT PLATING

1
Silver Plated Contacts

2
Gold Plated Contacts

KEY POSITION

-1
Position 1

-2
Position 2

-3
Position 3

-4
Position 4

-5
Position 5

-6
Position 6

Sample Part Number

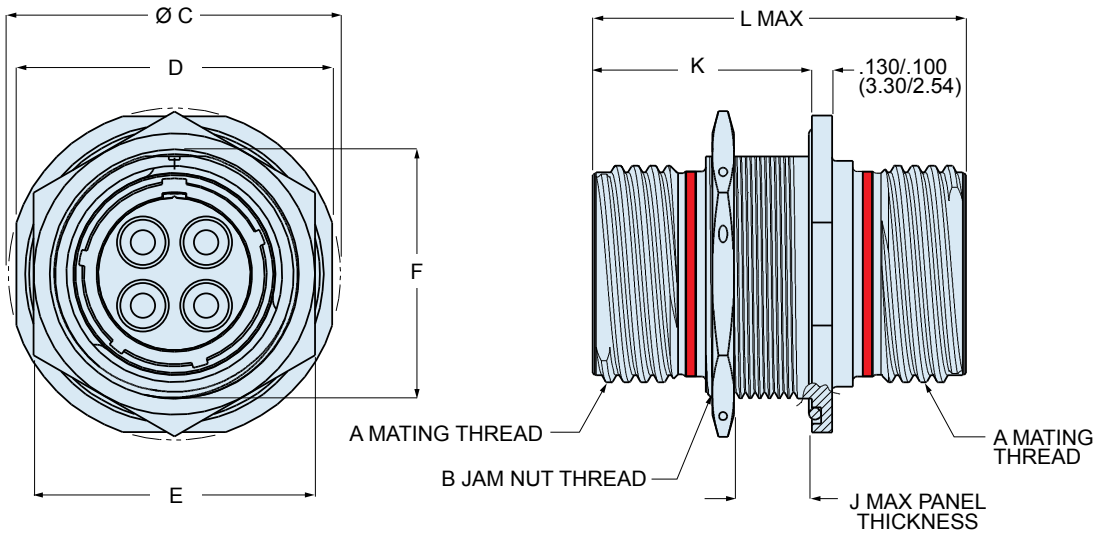
970-007	Z1	32-4	S	2	-1

E

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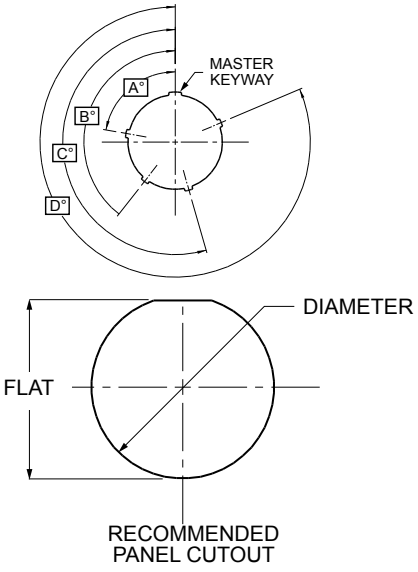
Series 970 PowerTrip™ Connectors and Accessories
Thru-BulkHead Receptacles
970-007 Hermetic

970-007 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	46.42	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	2.087	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

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

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