970-003 REAR PANEL MOUNT, SQUARE FLANGE RECEPTACLE

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 on mating plug 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 grommet provide watertight sealing. Contacts are packaged with connector.

- 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

970-003
Square Flange Panel Mount Receptacle with Crimp Contacts

SHELL MATL AND FINISH

ME
Aluminum, Electroless Nickel Finish

MT
Aluminum, Nickel-PTFE Finish

NF
Aluminum, Olive Drab Cadmium

ZR
Aluminum, Black Zinc-Nickel Finish

Z1
Passivated Stainless Steel

SHELL SIZE - INSERT ARRANGEMENT

Contact 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 AND PLATING

P1
Pin Contacts, Silver Plating*

P2
Pin Contacts, Gold Plating

S1
Socket Contacts, Silver Plating*

S2
Socket Contacts, Gold Plating

A
Pin Connector, without Contacts

B
Socket Connector, without Contacts

* Size 12 and 16 contacts are gold-plated. Size 8, 4 and 1/0 are silver plated.

MOUNTING HOLE OPTION

N
Thru-Hole

T
Clinch Nuts Installed in Mounting Holes for Back Panel Mounting.

KEY POSITION

-1 Position 1
-2 Position 2
-3 Position 3
-4 Position 4
-5 Position 5
-6 Position 6

Sample Part Number					
970-003	MT	24-5	P1	N	-1

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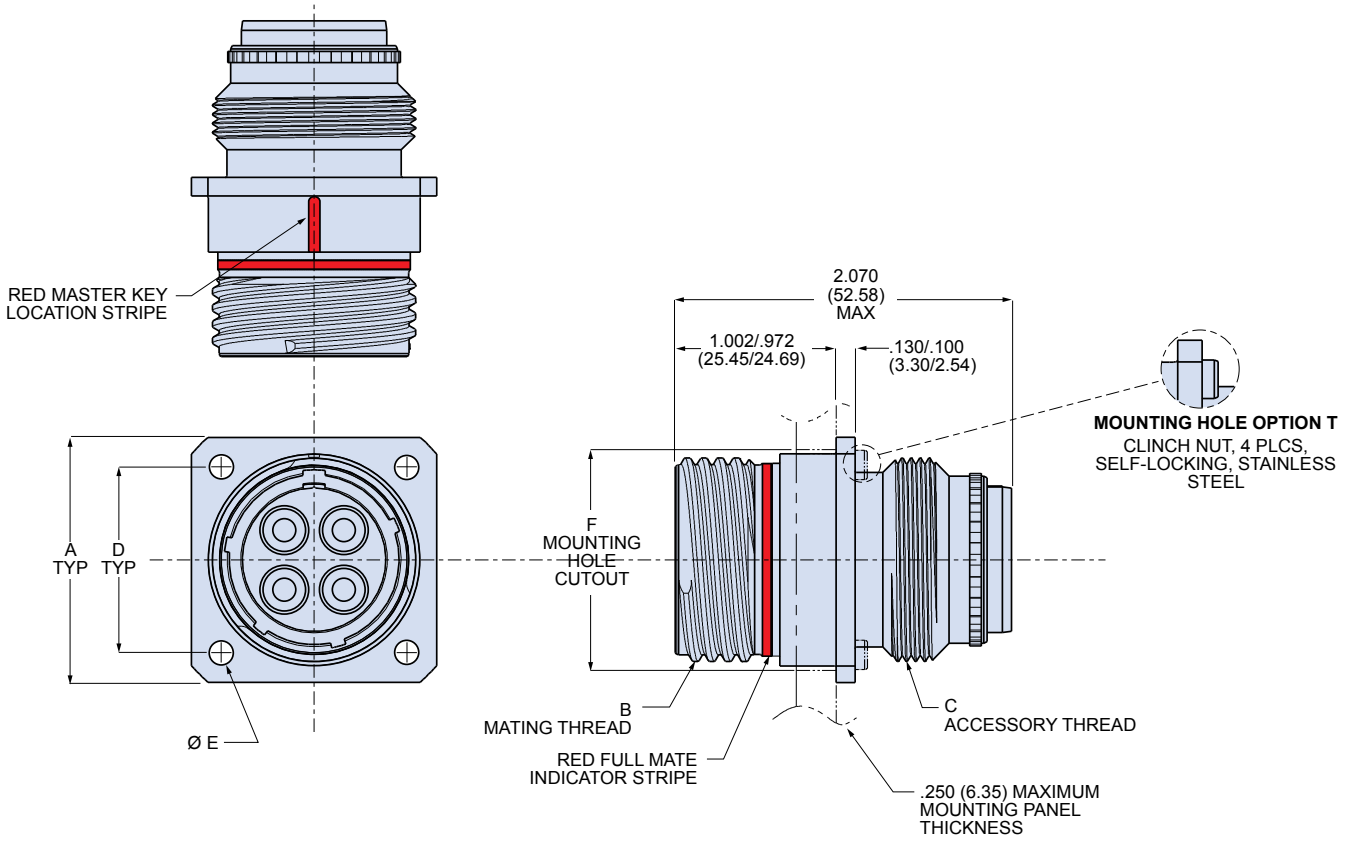
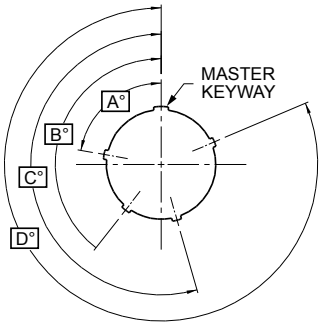


DIMENSIONS											
Shell Size	A		B	C	D		ø E		E	ø F	
	In.	mm.	Mating Thread	Accessory Thd	In.	mm.	In.	mm.	Clinch Nut Thd	In.	mm.
18	1.383	35.13	1.125-.1P-.3L-TS-2A	1.125-18 UNEF-2A	1.015	25.78	.146	3.71	6-32 UNC-2B	1.187	30.15
20	1.508	38.30	1.250-.1P-.3L-TS-2A	1.250-18 UNEF-2A	1.140	28.96	.146	3.71	6-32 UNC-2B	1.374	34.90
24	1.718	43.64	1.500-.1P-.3L-TS-2A	1.4375-18 UNEF-2A	1.281	32.54	.146	3.71	6-32 UNC-2B	1.562	39.67
28	2.138	54.31	1.750-.1P-.3L-TS-2A	1.8125-16 UN-2A	1.568	39.83	.170	4.32	8-32 UNC-2B	1.835	46.61
32	2.328	59.13	2.000-.1P-.3L-TS-2A	2.0625-16 UNS-2A	1.734	44.04	.170	4.32	8-32 UNC-2B	2.093	53.16
36	2.578	65.48	2.250-.1P-.3L-TS-2A	2.250-16 UN-2A	1.984	50.39	.170	4.32	8-32 UNC-2B	2.302	58.47
40	2.828	71.83	2.500-.1P-.3L-TS-2A	2.500-16 UN-2A	2.234	56.74	.170	4.32	8-32 UNC-2B	2.562	65.07



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

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