

Series 970 PowerTrip™ Connectors and Accessories

Receptacle Connectors

970-003 Square Flange Receptacle



Receptacle
Connectors

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	SHELL MATL AND FINISH	SHELL SIZE - INSERT ARRANGEMENT						CONTACT TYPE AND PLATING	MOUNTING HOLE OPTION	KEY POSITION			
970-003 Square Flange Panel Mount Receptacle with Crimp Contacts	ME Aluminum, Electroless Nickel Finish	Contact Arr.	Contact Size and Qty					P1 Pin Contacts, Silver Plating*	N Thru-Hole	-1 Position 1			
		#16	#12	#8	#4	#1/0							
		18-2			2								
	MT Aluminum, Nickel-PTFE Finish	18-4		2	2			P2 Pin Contacts, Gold Plating	T Clinch Nuts Installed in Mounting Holes for Back Panel Mounting.	-2 Position 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							
	NF Aluminum, Olive Drab Cadmium	28-8		1	7			S1 Socket Contacts, Silver Plating*		-3 Position 3			
		28-9	5			4							
		28-15	15										
		32-2					2						
		32-3					3						
	ZR Aluminum, Black Zinc-Nickel Finish	32-4				2	2	S2 Socket Contacts, Gold Plating		-4 Position 4			
		32-5				5							
		32-6		3			3						
		32-20	1	19									
		36-4					4						
		36-16	3		13								
		40-5					5						
		40-21			21								
Z1 Passivated Stainless Steel											A Pin Connector, without Contacts		-5 Position 5
						B Socket Connector, without Contacts		-6 Position 6					
						* Size 12 and 16 contacts are gold-plated. Size 8, 4 and 1/0 are silver plated.							
Sample Part Number													
970-003	MT	24-5					P1	N	-1				

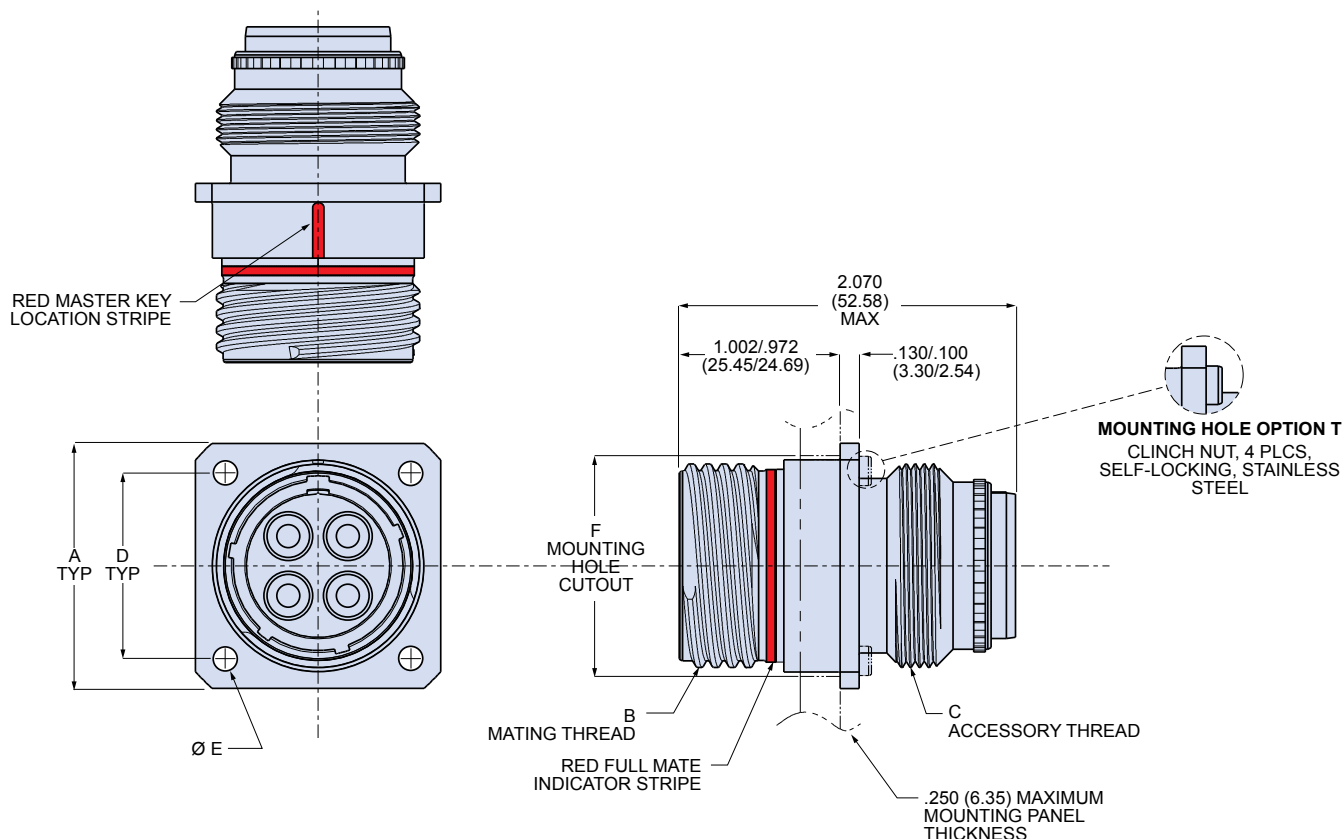


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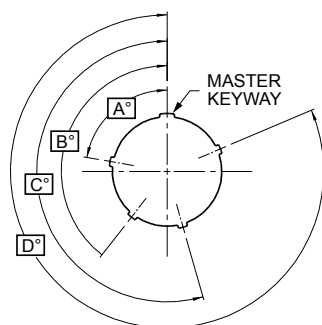
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DIMENSIONS

Shell Size	A		B Mating Thread	C Accessory Thd	D		Ø E		E Clinch Nut Thd	Ø F	
	In.	mm.			In.	mm.	In.	mm.		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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