



Series 970 PowerTrip™ Connectors and Accessories

Cable Connectors

970-001 Plug with Accessory Thread

PLUG CONNECTORS



Series 970 PowerTrip™ plug connectors feature high current LouverBand contacts and rugged water resistant construction for the most demanding environments. Coupling threads are triple-start ACME type. EMI protected with ground spring and splined backshell interface. Anti-decoupling ratchet prevents de-mating under vibration. Standard contacts are silver plated high conductivity copper alloy, or choose gold-plated contacts for improved corrosion protection. Fluorosilicone rubber gaskets and grommets provide watertight sealing. Contacts are packaged with connector.

- EMI Protected
- High Current Contacts
- Splined Backshell Interface
- Ratchet Self-Locking

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 MATERIAL AND FINISH	SHELL SIZE - INSERT ARRANGEMENT						CONTACT TYPE AND PLATING	KEY POSITION	
970-001 Plug Connector	ME Aluminum, Electroless Nickel Finish	Contact Arr.	Contact Size and Qty					P1 Pin Contacts, Silver Plating*	-1 Position 1	
		#16	#12	#8	#4	#1/0				
	18-2			2			P2 Pin Contacts, Gold Plating	-2 Position 2		
	18-4		2	2						
	20-3			3						
	20-4			4						
	20-5		2	3						
	MT Aluminum, Nickel-PTFE Finish	20-7	4		3			S1 Socket Contacts, Silver Plating*	-3 Position 3	
		24-2				2				
		24-3				3				
		24-5			5					
		24-6		4		2				
	NF Aluminum, Olive Drab Cadmium	24-A6		3		3		S2 Socket Contacts, Gold Plating	-4 Position 4	
		28-4				4				
		28-8		1	7					
		28-9	5			4				
	ZR Aluminum, Black Zinc-Nickel Finish	28-15	15					A Pin Connector, without Contacts	-5 Position 5	
		32-2					2			
		32-3					3			
		32-4				2	2			
		32-5				5				
		Z1 Passivated Stainless Steel	32-6		3			3	B Socket Connector, without Contacts	-6 Position 6
			32-20	1	19					
			36-4					4		
			36-16	3		13				
			40-5					5		
			40-21			21				
Sample Part Number										
970-001	MT	18- 2					P2	-1		

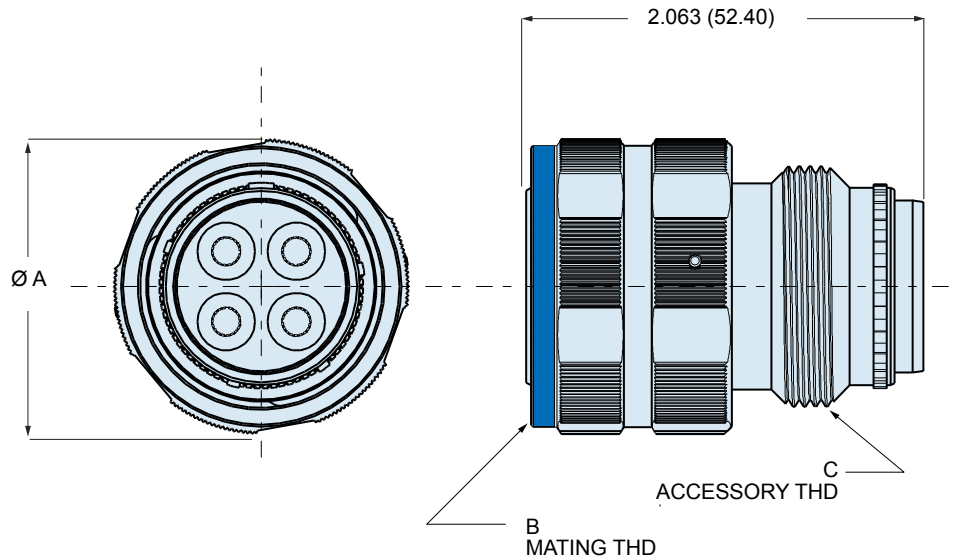
* Size 12 and 16 contacts are gold-plated. Size 8, 4 and 1/0 are silver plated.

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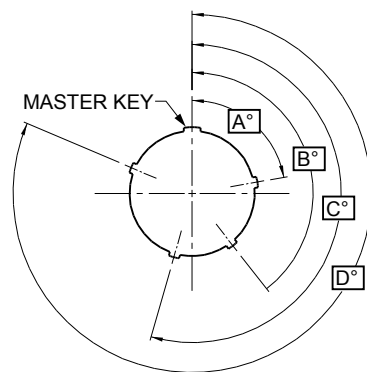
970-001 Plug with Accessory Thread



970-001 PLUG CONNECTOR



DIMENSIONS				
Shell Size	Ø A		B Mating Thread	C Accessory Thread
	In.	mm.		
18	1.485	37.72	1.125-0.1P-.3L-TS-2B	1.125-18 UNEF-2A
20	1.583	40.21	1.250-0.1P-.3L-TS-2B	1.250-18 UNEF-2A
24	1.875	47.63	1.500-0.1P-.3L-TS-2B	1.4375-18 UNEF-2A
28	2.186	55.52	1.750-0.1P-.3L-TS-2B	1.8125-16 UN-2A
32	2.420	61.47	2.000-0.1P-.3L-TS-2B	2.0625-16 UNS-2A
36	2.709	68.81	2.250-0.1P-.3L-TS-2B	2.250-16 UN-2A
40	2.980	75.69	2.500-0.1P-.3L-TS-2B	2.500-16 UN-2A



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

Mouser Electronics

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