



Cable Connectors

970-001 Plug with Accessory Thread



970-001 plug has accessory thread for attaching strain relief clamps, backshells or adapters. Coupling threads are triple-start ACME quick-disconnect. EMI protected with ground spring. Self-locking coupling nut resists loosening under vibration. Aluminum or stainless steel plug has five polarizing keys. Crimp rear-release contacts are packaged with connector. PowerTrip connectors feature low resistance LouverBand contacts and are sealed to withstand extreme environments.

- Quick-disconnect self-locking aerospace-grade power connector
- 2000 VAC (DWV)
- -65° to +200°C
- EMI ground spring
- Crimp, rear-release contacts
- High shock, high vibration

CABLE CONNECTORS

INSERT ARRANGEMENTS						
Insert Arr.	Contact Size and Quantity					
	#16	#12	#8	#4	#1/0	#2/0
18-2			2			
18-4		2	2			
20-3			3			
20-4			4			
20-5		2	3			
20-7	4		3			
24-1					1	
24-2				2		
24-3				3		
24-5			5			
24-6		4		2		
24-A1						1
24-A6		3		3		
28-12	6		6			
28-15	15					
28-4				4		
28-8		1	7			
28-9	5			4		
32-12	2		10			
32-2					2	
32-20	1	19				
32-3					3	
32-4				2	2	
32-5				5		
32-6		3			3	
32-7				7		
32-A22		22				
36-16	3		13			
36-2						2
36-4					4	
36-9	14	14	2	1		
36-A8				8		
36-B8	4				4	
40-10	16		9	4		
40-21			21			
40-5					5	

HOW TO ORDER					
Sample Part Number →	970-001	MT	18-2	P2	-1
Basic Part Number	970-001 Plug with Accessory Thread				
Material/Finish	ME = Aluminum / Electroless Nickel MT = Aluminum / Nickel PTFE NF = Aluminum / Olive Drab Cadmium TZ = Aluminum / Tin-Zinc ZR = Aluminum / Black Zinc-Nickel Z1 = Stainless Steel / Passivated				
Shell Size-Insert Arr.	See "Insert Arrangements" Table				
Contact Gender and Plating	A = Pin Connector, without Contacts B = Socket Connector, without Contacts P1 = Pin Contacts, Silver Plating* P2 = Pin Contacts, Gold Plating S1 = Socket Contacts, Silver Plating* S2 = Socket Contacts, Gold Plating * Size 12 and 16 contacts are gold-plated. Size 8, 4, 1/0 and 2/0 are silver plated.				
Key Position	-1, -2, -3, -4, -5, or -6				

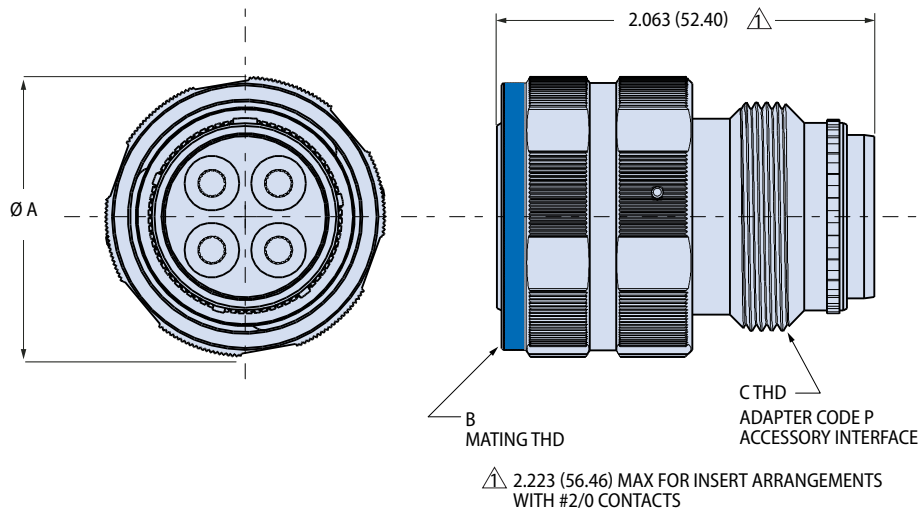
RATINGS
Voltage (DWV): 2000 Volts AC
Current: Size 16 contact 13 amps Size 12 contact 23 amps Size 8 contact 60 amps Size 4 contact 100 amps Size 1/0 contact 175 amps Size 2/0 contact 205 amps
Operating temperature: Matl/Finish Codes ME, Z1: -65° to +200°C Codes MT,NF, TZ, ZR: -65 to +175 °C
Durability: 500 mating cycles
EMI shielding effectiveness: 65 dB min. 100 MHz to 10 GHz
Shock: 50 g
Vibration: per MIL-DTL-38999 Series III
MIL-S-901 high impact shock: Grade A
Blowing sand and dust: MIL-STD-810, method 510.5
Altitude immersion: 75,000 feet
Ingress protection: IP67
Water pressure: 6 feet, 48 hours

CONSTRUCTION
Contacts: size #8 and larger: high conductivity copper alloy, gold or silver plated. Size #12, #16: copper alloy, gold plated
Shell: Aluminum or stainless steel, see How to Order
Coupling nut: Aluminum or stainless steel, see How to Order. Anti-decoupling spring: SST, passivated
Insulator: Glass-filled thermoset epoxy
Wire grommet, face seal, peripheral seal: Fluorosilicone/silicone blend
Contact Retention clip: Beryllium copper
Ground spring: Beryllium copper, nickel plated
Insert retainer ring: High-temperature thermoplastic
Coupling nut retainer ring: Beryllium copper, nickel plated

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DIMENSIONS				
Shell Size	$\varnothing A$		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	1.857	47.17	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