



Cable Connectors

970-011 Plug with Banding Platform



970-011 plug has integral banding platform and groove for shrink boot. Terminate cable shield directly to connector with Band-Master ATS banding strap, sold separately. Coupling threads are triple-start ACME quick-disconnect. EMI protected with ground spring. Self-locking coupling nut resists loosening under vibration. Crimp rear-release contacts are packaged with connector. PowerTrip connectors feature low resistance LouverBand contacts and are designed to withstand extreme environments.

- Quick-disconnect, high shock, high vibration, self-locking connector
- 2000 VAC (DWV)
- -65° to +200 °C
- Plug has EMI ground spring
- Crimp, rear-release contacts
- Advanced IP68+ sealing

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 →	970-011	MT	18-2	P2	-1
Basic Part Number	970-011 = Cable Plug with Banding Platform				
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				

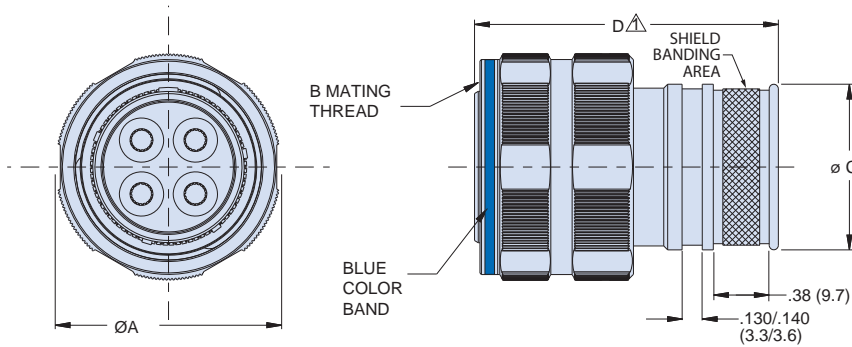
RATINGS
Voltage (DWV): 2000 Volts AC
Current: Size 16 contact 13 amps Size 12 contact 23 amps Size 8 contact 60 amps Size 4 contact 100 amps Size 1/0 contact 175 amps Size 2/0 contact 205 amps
Operating temperature: Matl/Finish Codes ME, Z1: -65° to +200°C Codes MT,NF, TZ, ZR: -65 to +175 °C
Durability: 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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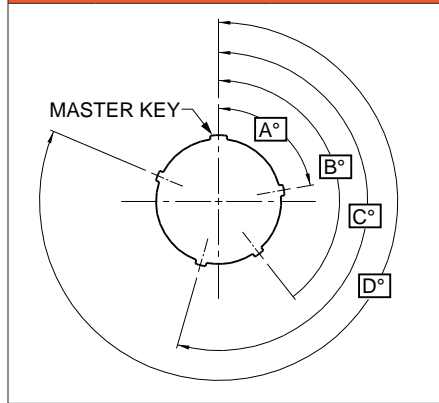
CABLE CONNECTORS



△ D DIM. OAL IS 2.223 (56.46) FOR INSERT ARRANGEMENTS WITH #2/0 CONTACTS. GROMMET PROTRUDES BEYOND SHELL.

DIMENSIONS							
Shell Size	ø A		B Mating Thread	ø C		D	
	In.	mm		In.	mm.	In.	mm.
18	1.485	37.72	1.125-0.1P-0.3L-TS-2B	1.037	26.34	2.063	52.4
20	1.583	40.21	1.250-0.1P-0.3L-TS-2B	1.163	29.54	2.063	52.4
24	1.857	47.17	1.500-0.1P-0.3L-TS-2B	1.350	34.29	2.063	52.4
28	2.186	55.52	1.750-0.1P-0.3L-TS-2B	1.670	42.42	2.063	52.4
32	2.420	61.47	2.000-0.1P-0.3L-TS-2B	1.945	49.40	2.063	52.4
36	2.709	68.81	2.250-0.1P-0.3L-TS-2B	2.176	55.27	2.063	52.4
40	2.980	75.69	2.500-0.1P-0.3L-TS-2B	2.350	59.69	2.063	52.4

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

SHRINK BOOT

Connector has boot groove for lipped shrink boot. Boot is ordered separately. Boot provides cable strain relief and environmental protection. Type 1 high-performance semi-rigid elastomer resists fuels and oils and withstands temperature extremes. Available with W1 hot melt adhesive pre-coat. Operating temperature range -75 to +150 °C (no adhesive), -55 to +125 °C (with W1 adhesive).



Shell Size	Shrink Boot P/N	Adhesive Lined Shrink Boot P/N
18	770-001S106	770-001S106W1
20	770-001S106	770-001S106W1
24	770-001S107	770-001S107W1
28	770-001S108	770-001S108W1
32	770-001S108	770-001S108W1
36	770-001S109	770-001S109W1
40	770-001S109	770-001S109W1

SHIELD BAND

Shield band is not included with connector. Order separately.

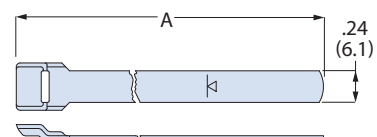
Use banding strap to terminate cable braid directly to connector. Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. The Band-Master ATS® Advanced Cable Shield Termination System is the overwhelming favorite throughout the military aerospace and defense industries, providing excellent static loading and corrosion resistance in electrical wire interconnect systems.



Band Strap



Banding Tool
601-100



A Length		Fits up to Dia.		Band Strap (pre-coiled) Part Number
in	mm	in	mm	
14	355	1.80	45.7	601-041
18	457	2.50	63.5	601-050