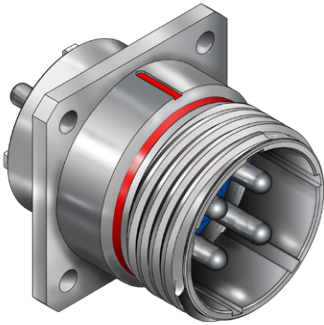


Square Flange Receptacles

970-008 Square Flange PC Tail Receptacle, #8 Contacts

SQUARE FLANGE RECEPTACLES



970-008 square flange receptacle has printed circuit terminals. Available for insert arrangements with size #8 contacts. Terminals are non-removable and are sealed with RTV silicone. Coupling threads are triple-start ACME quick-disconnect. Optional self-locking clinch nuts for easier installation. 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

RATINGS	
Voltage (DWV):	2000 Volts AC
Current:	Size 16 contact 13 amps Size 12 contact 23 amps Size 8 contact 60 amps
Operating temperature:	Matl/Finish Codes ME, Z1: -45 to +200 °C Codes MT,NF, TZ, ZR: -45 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: high conductivity copper alloy, gold or silver plated. Size #12, #16: copper alloy, gold plated
Shell:	Aluminum or stainless steel, see How to Order
Insulator:	Glass-filled thermoset epoxy
Interfacial seal:	Fluorosilicone/silicone blend
Potting compound:	RTV-3140
Clinch nuts:	Stainless steel, passivated

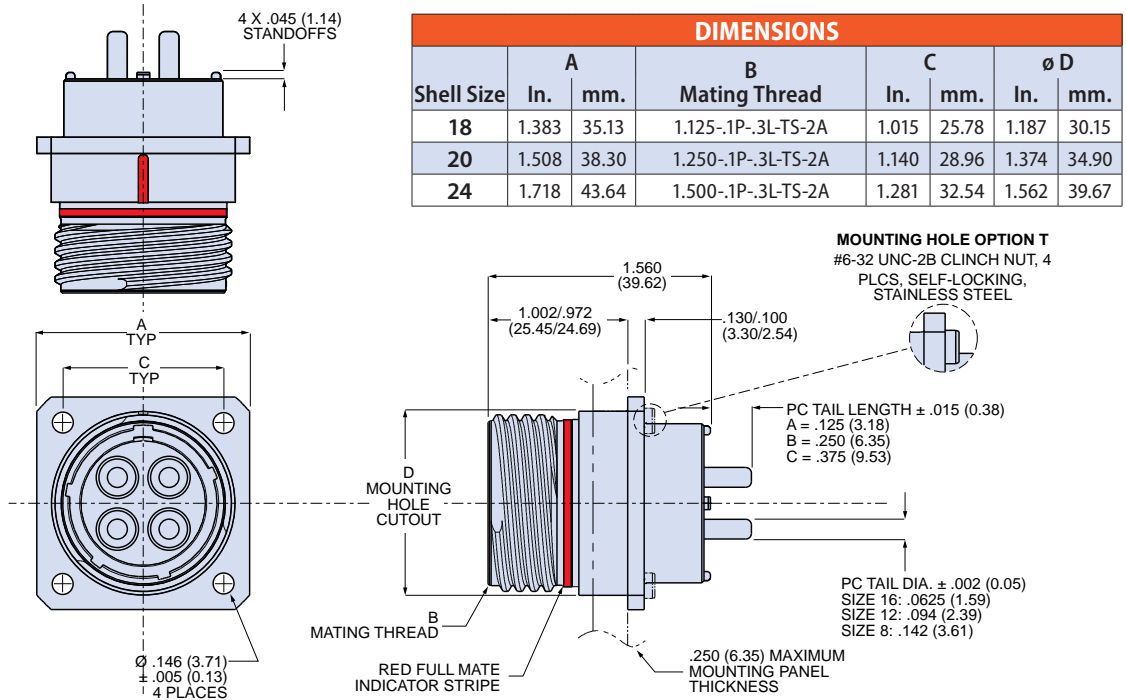
HOW TO ORDER	
	Sample Part Number → 970-013 ME 20-4 P1 A T -1
Basic Part Number	970-013 Square Flange Receptacle, Box Mount, with O-ring
Material/Finish	ME = Aluminum / Electroless Nickel MT = Aluminum / Nickel PTFE NF = Aluminum / Olive Drab Cadmium TZ = Aluminum / Tin-Zinc ZR = Aluminum / Black Zinc-Nickel Z1 = Stainless Steel / Passivated
Shell Size-Insert Arrangement	18-2 = (2) #8 contacts 18-4 = (2) #8 contacts, (2) #12 contacts 20-3 = (3) #8 contacts 20-4 = (4) #8 contacts 20-5 = (3) #8 contacts, (2) #12 contacts 20-7 = (3) #8 contacts, (4) #16 contacts 24-5 = (5) #8 contacts
Contact Gender and Plating	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.
PC Tail Length	A = .125 (3.18) B = .250 (6.35) C = .375 (9.53)
Mounting Hole Option	N = Thru-Hole T = Clinch Nuts Installed in Mounting Holes for Back Panel Mounting
Keyway Position	-1, -2, -3, -4, -5, or -6

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	



Square Flange Receptacles

970-008 Square Flange PC Tail Receptacle, #8 Contacts



SQUARE FLANGE RECEPTACLES

970-008 PRINTED CIRCUIT BOARD PATTERNS		
Insert Arrangement	Component Mounting Side of PCB	
	Pin Connector	Socket Connector
<p>18-2 2 #8 Contacts</p>	<p>2X .185 (4.70)</p> <p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 2X</p>	<p>2X .185 (4.70)</p> <p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 2X</p>
<p>18-4 2 #8 Contacts, 2 #12 Contacts</p>	<p>2X .185 (4.70)</p> <p>2X .250 (6.35)</p> <p>HOLE TO ACCEPT .096 (2.44) MAX DIA CONTACT 2X</p> <p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 2X</p>	<p>2X .185 (4.70)</p> <p>2X .250 (6.35)</p> <p>HOLE TO ACCEPT .096 (2.44) MAX DIA CONTACT 2X</p> <p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 2X</p>
<p>20-3 3 #8 Contacts</p>	<p>2X .195 (4.95)</p> <p>.225 (5.72)</p> <p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 3X</p> <p>.113 (2.87)</p>	<p>2X .195 (4.95)</p> <p>.225 (5.72)</p> <p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 3X</p> <p>.113 (2.87)</p>

Square Flange Receptacles

970-008 Square Flange PC Tail Receptacle, #8 Contacts

SQUARE FLANGE RECEPTACLES

970-008 PRINTED CIRCUIT BOARD PATTERNS		
Insert Arrangement	Component Mounting Side of PCB	
	Pin Connector	Socket Connector
<p>20-4 4#8 Contacts</p>	<p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 4X</p>	<p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 4X</p>
<p>20-5 3#8 Contacts, 2 #12 Contacts</p>	<p>HOLE TO ACCEPT .096 (2.44) MAX DIA CONTACT 2X</p> <p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 3X</p>	<p>HOLE TO ACCEPT .096 (2.44) MAX DIA CONTACT 2X</p> <p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 3X</p>
<p>20-7 3#8 Contacts, 4 #16 Contacts</p>	<p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 3X</p> <p>HOLE TO ACCEPT .065 (1.65) MAX DIA CONTACT 4X</p>	<p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 3X</p> <p>HOLE TO ACCEPT .065 (1.65) MAX DIA CONTACT 4X</p>
<p>24-5 5#8 Contacts</p>	<p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 5X</p>	<p>HOLE TO ACCEPT .144 (3.66) MAX DIA CONTACT 5X</p>