

Series 801 Hermetic Receptacles

Feature a double-start modified stub ACME mating thread for improved protection against cross-mating and thread damage. 304L stainless steel shells suitable for E-Beam welding. 100% tested to meet 1×10^{-7} ccHe/sec @ 1 atm helium leak rate. Four shell styles available including solder mount, weld mount, jam-nut, or square flange. Integral standoffs for solder washout. Solder cup or PC tail contacts for attachment to flex or rigid circuit boards. Contacts are gold plated, nickel-iron.

How To Order						
Sample Part Number	801-012	-03	Z1	7-10	P	A
Series	801-012 = Hermetic Receptacles					
Shell Style (See Table I)	-02 = Square Flange, Front or Rear Panel Mount -03 = Solder Mount -07 = Jam-Nut, Rear Panel Mount -13 = Weld Mount					
Material and Finish	Z1 = Stainless Steel / Passivated ZL = Stainless Steel / Nickel Plated					
Shell Size - Insert Arrangement	See Contact Arrangements page E-7					
Contact Type	P = Pin, Solder Cup		C = Pin, PC Tail			
	S = Socket, Solder Cup		D = Socket, PC Tail			
Polarization (See Table II)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F					

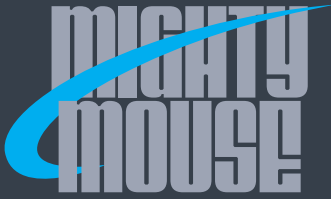
Table I: Shell Style			
Style -02 Square Flange	Style -03 Solder Mount	Style -07 Jam-Nut	Style -13 Weld Mount

Table II: Keyway Positions		
	A°	B°
Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

NOTES

- Hermeticity: 1×10^{-7} cc/sec at one atmosphere, not for use in liquid environment
- This connector mates with all quick coupling high density plug connectors with same polarization and opposite contact gender, (801-001, 801-002, 801-007, and 801-008)
- See page E-11 for panel cut-out dimensions
- For all insert arrangements with size #8 contacts, add .300" to OAL dimension.
- Material / finish:
 - Shell: CRES 304L / passivate or plate as required
 - Jam-nut: CRES / passivate or plate as required
 - Contacts: alloy 52 / gold plate
 - Seals: fluorosilicone / N.A.
 - Insulators:
 - » Fused glass / N.A. (hermetic)
 - » Rigid dielectric / N.A. (socket insulator)
 - Sockets:
 - » Copper alloy / gold plate (contact)
 - » CRES / passivated (hood)

DWV Rating	
Contact Sizes	Test Voltage
23	750 Vac
20 HD	1000 Vac
16, 12, 8	1800 Vac

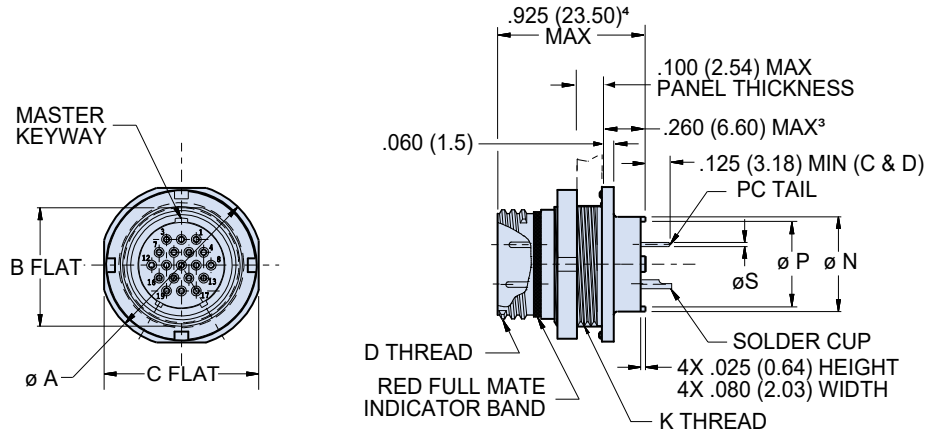


SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables



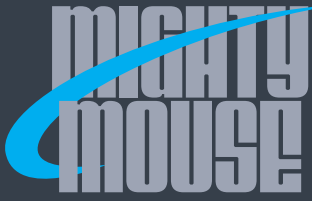
Hermetic Solder Cup or PC Tail Jam-Nut Mount Receptacle

JAM-NUT MOUNT RECEPTACLE - SHELL STYLE 07



Dimensions							
Shell Size	Ø A	B Flat	C Flat	D Thread	E Thread UN-2A	Ø F	Ø G PC Tail Dia.
5	.575 (14.60)	.350 (8.89)	.545 (13.84)	.3125-.05P-.1L-2A	.3750-28	.244 (6.20)	#23 .018/.022 (0.46/0.56)
6	.635 (16.13)	.410 (10.41)	.595 (15.11)	.3750-.05P-.1L-2A	.4375-28	.330 (8.38)	
7	.755 (19.18)	.536 (13.61)	.723 (18.36)	.4375-.05P-.1L-2A	.5625-32	.432 (10.97)	#20 .024/.028 (0.61/0.71)
8	.755 (19.18)	.536 (13.61)	.723 (18.36)	.5000-.05P-.1L-2A	.5625-32	.493 (12.52)	
9	.830 (21.08)	.596 (15.14)	.790 (20.07)	.5625-.05P-.1L-2A	.6250-28	.551 (14.00)	#16 .060/.064 (1.52/1.63)
10	.890 (22.61)	.658 (16.71)	.855 (21.72)	.6250-.05P-.1L-2A	.6875-28	.620 (15.75)	
11	.960 (24.38)	.718 (18.24)	.925 (23.50)	.6875-.05P-.1L-2A	7500-28	.662 (16.81)	#12 .092/.096 (2.34/2.44)
13	1.078 (27.38)	.845 (21.46)	1.044 (26.52)	.8125-.1P-.2L-2A	.8750-28	.703 (17.86)	
16	1.265 (32.13)	1.022 (25.96)	1.230 (31.24)	1.0000-.1P-.2L-2A	1.0625-20	.863 (21.92)	
17	1.325 (33.65)	1.096 (27.84)	1.290 (32.77)	1.0625-.1P-.2L-2A	1.1250-28	.912 (23.16)	
19	1.450 (36.83)	1.225 (31.12)	1.415 (35.94)	1.1875-.1P-.2L-2A	1.2500-28	1.018 (25.86)	
21	1.625 (41.28)	1.346 (34.19)	1.577 (40.06)	1.3125-.1P-.2L-2A	1.3750-28	1.170 (29.72)	

SERIES 801 DOUBLE-START MATING

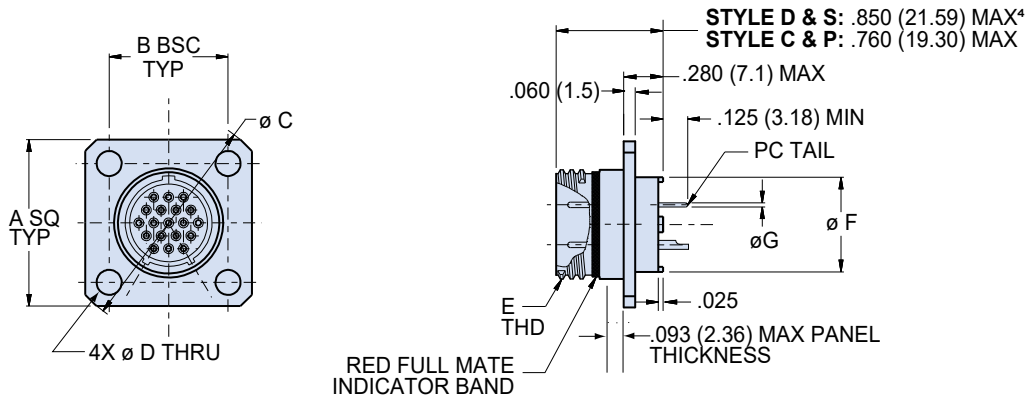


SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables



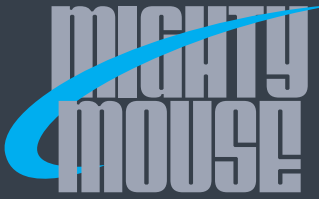
Hermetic Solder Cup or PC Tail Square Flange Mount Receptacle

FRONT OR REAR, SQUARE FLANGE MOUNT - SHELL STYLE 02



Dimensions							
Shell Size	A Sq	B BSC	Ø C	Ø D	E Thread	Ø F	Ø G PC Tail Dia
5	.530 (13.46)	.363 (9.22)	.680 (17.27)	.096/.091	.3125-.05P-.1L-2A	.244 (6.20)	#23 .018/.022 (0.46/0.56)
6	.590 (14.99)	.423 (10.74)	.750 (19.05)		.3750-.05P-.1L-2A	.330 (8.38)	
7	.650 (16.51)	.483 (12.27)	.850 (21.59)		.4375-.05P-.1L-2A	.432 (10.97)	
8	.712 (18.08)	.545 (13.84)	.938 (23.83)		.5000-.05P-.1L-2A	.493 (12.52)	
9	.850 (21.59)	.607 (15.42)	1.125 (28.58)	.130/.126	.5625-.05P-.1L-2A	.551 (14.00)	#20 .024/.028 (0.61/0.71)
10	.890 (22.61)	.670 (17.02)	1.188 (30.18)		.6250-.05P-.1L-2A	.620 (15.75)	
11	.935 (23.75)	.715 (18.16)	1.250 (31.75)		.6875-.05P-.1L-2A	.662 (16.81)	
13	1.030 (26.16)	.812 (20.62)	1.375 (34.92)		.8125-.1P-.2L-2A	.703 (17.86)	
16	1.219 (30.96)	.981 (24.92)	1.625 (41.28)		1.0000-.1P-.2L-2A	.863 (21.92)	
17	1.280 (32.51)	1.060 (26.92)	1.700 (43.18)		1.0625-.1P-.2L-2A	.912 (23.16)	
19	1.432 (36.37)	1.191 (30.25)	1.900 (48.26)		1.1875-.1P-.2L-2A	1.018 (25.86)	
21	1.565 (39.75)	1.322 (33.58)	2.100 (53.34)		1.3125-.1P-.2L-2A	1.170 (29.72)	

SERIES 801 DOUBLE-START MATING

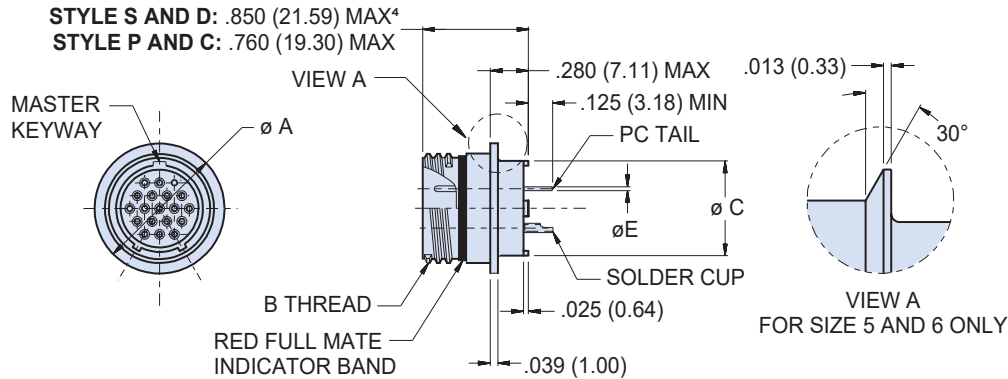


SERIES 801 DOUBLE-START ACME THREAD Mighty Mouse Connectors and Cables

Hermetic Solder Cup or PC Tail Solder or Weld Mount Receptacle



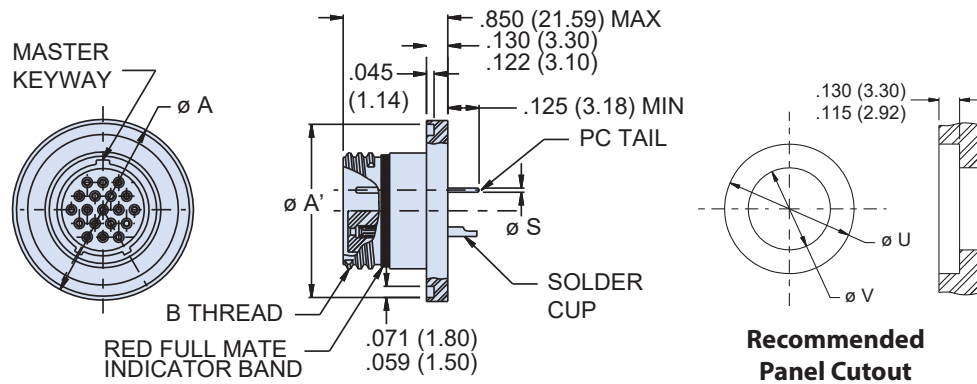
SOLDER MOUNT RECEPTACLE - SHELL STYLE 03



Dimensions							
Shell Size	Ø A	B Thread	Ø C	Shell Size	Ø A	B Thread	Ø C
5	.395 (10.03)	.3125-.05P-.1L-2A	.244 (6.20)	11	.770 (19.56)	.6875-.05P-1L-2A	.662 (16.81)
6	.455 (11.56)	.375-.05P-.1L-2A	.330 (8.38)	13	.895 (22.73)	.8125-.1P-.2L-2A	.703 (17.86)
7	.520 (13.21)	.4375-.05P-1L-2A	.432 (10.97)	16	1.080 (27.43)	1.000-.1P-.2L-2A	.863 (21.92)
8	.580 (14.73)	.5000-.05P-1L-2A	.493 (12.52)	17	1.145 (29.08)	1.062-.1P-.2L-2A	.912 (23.16)
9	.645 (16.38)	.5625-.05P-.1L-2A	.551 (14.00)	19	1.270 (32.26)	1.1875-.1P-.2L-2A	1.018 (25.86)
10	.705 (17.91)	.6250-.05P-1L-2A	.620 (15.75)	21	1.395 (35.43)	1.3125-.1P-.2L-2A	1.170 (29.72)

PC Tail Diameter	
Ø E	
#23 .018/.022 (0.46/0.56)	#16 .060/.064 (1.52/1.63)
#20 .024/.028 (0.61/0.71)	#12 .092/.096 (2.34/2.44)

WELD MOUNT RECEPTACLE - SHELL STYLE 13



Dimensions											
Shell Size	B Thread	Ø R ±.002	Ø T	Ø U	Ø V	Shell Size	B Thread	Ø R ±.002	Ø T	Ø U	Ø V
5	.3125-.05P-.1L-2A	.600 (15.24)	.555 (14.10)	.606 (15.39)	.180 (4.57)	11	.6875-.05P-.1L-2A	1.062 (26.97)	1.019 (25.88)	1.068 (27.13)	.580 (14.73)
6	.375-.05P-.1L-2A	.665 (16.89)	.620 (15.75)	.671 (17.04)	.240 (8.38)	13	.8125-.1P-.2L-2A	1.162 (29.51)	1.119 (28.42)	1.168 (29.67)	.610 (15.49)
7	.4375-.05P-.1L-2A	.730 (18.54)	.685 (17.40)	.736 (18.69)	.330 (6.10)	16	1.0000-.1P-.2L-2A	1.288 (32.72)	1.245 (31.62)	1.294 (32.87)	.775 (19.69)
8	.5000-.05P-.1L-2A	.788 (20.02)	.745 (18.92)	.794 (20.17)	.390 (9.91)	17	1.0625-.1P-.2L-2A	1.360 (34.54)	1.315 (33.40)	1.366 (34.70)	.825 (20.96)
9	.5625-.05P-.1L-2A	.912 (23.16)	.869 (22.07)	.918 (23.32)	.455 (11.56)	19	1.1875-.1P-.2L-2A	1.495 (37.97)	1.452 (36.88)	1.501 (38.13)	.930 (23.62)
10	.6250-.05P-.1L-2A	.975 (24.77)	.933 (23.70)	.981 (24.92)	.520 (13.21)	21	1.3125-.1P-.2L-2A	1.625 (41.28)	1.580 (40.13)	1.631 (41.43)	1.080 (27.43)

PC Tail Diameter
Ø S
#23 - .018/.022 (0.46/0.56)
#20 - .024/.028 (0.61/0.71)
#16 - .060/.064 (1.52/1.63)
#12 - .092/.096 (2.34/2.44)

SERIES 801 DOUBLE-START MATING