



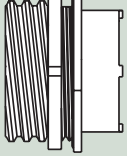
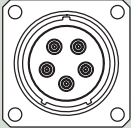
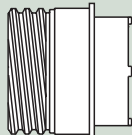
# Series 801 Mighty Mouse Double-Start ACME Thread Hermetic Receptacle with Co-Ax Pin Contacts

## 801-059 Shell Style -02 Dimensions

**Series 801 Quick Coupling Hermetic Receptacles** feature a double-start modified stub ACME mating thread for improved protection against cross-mating and thread damage. Corrosion resistant stainless steel shells. Hermeticity is  $1 \times 10^{-7}$  ccHe/sec leak rate. Three Shell styles available including solder mount, jam-nut or square flange. Integral standoffs for solder washout. Contacts are nickel-iron alloy and gold plated. Size #16 contacts up to 700 MHz, size 12 up to 3 GHz frequency range Cable adapters with crimp rings provided with each connector for reliable cable termination.

How To Order	
<b>Sample Part Number</b>	<b>801-059 -03 Z1 16-5 P A -02</b>
<b>Series</b>	<b>801-059</b> = Hermetic Receptacle
<b>Shell Style (See Table I)</b>	<b>-02</b> = Square Flange, RPM <b>-03</b> = Solder Mount <b>-07</b> = Jam-Nut, RPM
<b>Shell Material and Finish*</b>	<b>Z1</b> = Stainless Steel / Passivated <b>ZB</b> = Stainless Steel / Olive Drab Chromate over Cadmium <b>ZC</b> = Stainless Steel / Zinc Cobalt Alloy/Black Chromate <b>ZL</b> = Stainless Steel / Nickel Plated
<b>Shell Size - Insert Arrangement</b>	See Contact Arrangements page D-3
<b>Contact Type</b>	<b>P</b> = Co-Ax Pin
<b>Polarization (See Table II)</b>	<b>A</b> = Normal <b>B</b> = Pos. B <b>C</b> = Pos. C <b>D</b> = Pos. D <b>E</b> = Pos. E <b>F</b> = Pos. F
<b>Cable Attachment</b>	Cables Accommodated: <b>-01</b> = M17/113-RG316 <b>-02</b> = M17/152-00001 (RG316DS) <b>-03</b> = M17/93-RG178 <b>-04</b> = RG-178 Double Shield per DSCC 06017 <b>-05</b> = M17/94-RG179

\*Titanium and Inconel® shell materials available. Consult factory for information.

Table I: Shell Style		
		
<b>-07</b> Jam-Nut, Rear Panel Mount	<b>-02</b> Square Flange	<b>-03</b> Solder Mount

DWV Rating			
Contact Sizes	Test Voltage	Contact Sizes	Test Voltage
23	750 Vac	16 CO-AX**	800 Vac
20 HD	1000 Vac	12 CO-AX**	1000 Vac
16, 12, 8	1800 Vac	**Inner contact to outer contact	

Dimensions in Inches (millimeters) are subject to change without notice.

### NOTES

- Performance test criteria:
  - Hermeticity:  $1 \times 10^{-7}$  ccHe/sec @ 1 atmosphere differential
  - D.W.V.: 3500 VAC pin-to-pin and pin-to-shell with out breakdown
  - Insulation Resistance: 5000 megohms min @ 500 VDC
- Each connector is supplied with sufficient cable adapters and crimp rings to terminate appropriate cable for insertion into contact rear. After cable is terminated and adapters inserted in contact rear, the rear of the connector must be potted to cover adapters
- Connector will mate with all quick-coupling plug connectors (8001-001, 801-00, 801-007, 801-008) having the same shell size, contact arrangement, and opposite contact gender (co-ax socket)
- Frequency range  
Size 16: up to 700 MHz  
Size 12: up to 3 GHz

Table II: Keyway Positions

Key Position	A°	B°
<b>A</b>	150°	210°
<b>B</b>	75°	210°
<b>C</b>	95°	230°
<b>D</b>	140°	275°
<b>E</b>	75°	275°
<b>F</b>	95°	210°

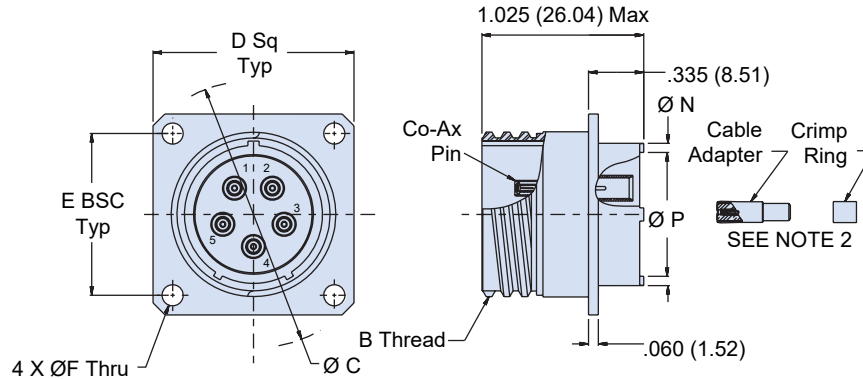
# Series 801 Mighty Mouse Double-Start ACME Thread Hermetic Receptacle with Co-Ax Pin Contacts

## 801-059 Shell Style -02 Dimensions



Series 801

### Square flange receptacle - shell style 02



Dimensions					
Shell Size	B Thread	Ø C	D Sq ±.003 (± 0.08)	Ø N	Ø P
6	.3750-.05P-.1L-2A	.750 (19.05)	.590 (14.99)	.330 (8.38)	.236 (5.99)
7	.4375-.05P-.1L-2A	.850 (21.59)	.650 (16.51)	.432 (10.97)	.324 (8.23)
8	.5000-.05P-.1L-2A	.938 (23.83)	.712 (18.08)	.493 (12.52)	.390 (9.91)
9	.5625-.05P-.1L-2A	1.125 (28.58)	.850 (21.59)	.551 (14.00)	.444 (11.28)
10	.6250-.05P-.1L-2A	1.188 (30.18)	.890 (22.61)	.620 (15.75)	.520 (13.21)
11	.6875-.05P-.1L-2A	1.250 (31.75)	.935 (23.75)	.662 (16.81)	.557 (14.15)
13	.8125-.1P-.2L-2A	1.375 (34.92)	1.030 (26.16)	.703 (17.86)	.596 (15.14)
16	1.0000-.1P-.2L-2A	1.625 (41.28)	1.219 (30.96)	.863 (21.92)	.756 (19.20)
17	1.0625-.1p-.2l-2a	1.700 (43.18)	1.280 (32.51)	.912 (23.16)	.805 (20.45)
19	1.8750-.1p-.2l-2a	1.900 (48.26)	1.432 (36.37)	1.018 (25.86)	.910 (23.11)
21	1.3125-.1p-.2l-2a	2.100 (53.34)	1.565 (39.75)	1.170 (29.72)	1.061 (26.95)

#### Material / finish

- Shell, jam-nut: 304L CRES / passivated or plated
- Contacts, hermetic: Nickel alloy / gold plate
- Contacts, cable adapter: copper alloy / gold plate
- Insulator, hermetic: full glass / N.A.
- Insulator, Co-Ax: rigid dielectric / N.A.
- Seals, O-rings: fluorosilicone blend / N.A

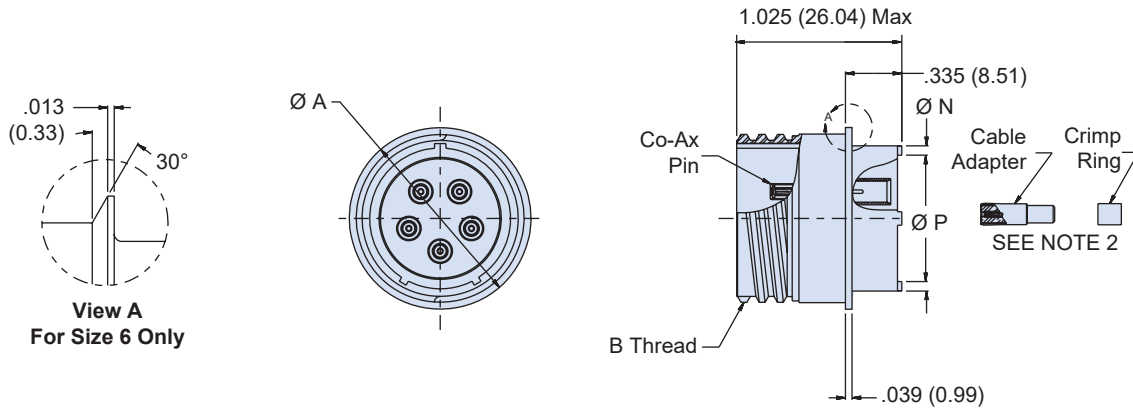
Square Flange Rear Panel Mount, Panel Cutout				
	Shell Size	Ø A	E BSC	Ø F
	6	.328 (8.33)	.423 (10.74)	.096 (2.44) .091 (2.31)
	7	.390 (9.91)	.483 (12.27)	
	8	.453 (11.51)	.545 (13.84)	
	9	.515 (13.08)	.607 (15.42)	
	10	.578 (14.68)	.670 (17.02)	
	11	.640 (16.26)	.715 (18.16)	
	13	.703 (17.86)	.812 (20.62)	
	16	.828 (21.03)	.981 (24.92)	
	17	1.015 (25.78)	1.060 (26.92)	
	19	1.078 (27.38)	1.191 (30.25)	
21	1.203 (30.56)	1.322 (33.58)		

Dimensions in Inches (millimeters) are subject to change without notice.

# Series 801 Mighty Mouse Double-Start ACME Thread Hermetic Receptacle with Co-Ax Pin Contacts

## 801-059 Shell Style -03 Dimensions

### Solder mount receptacle - shell style 03



Dimensions				
Shell Size	Ø A	B Thread	Ø N	Ø M Panel Cutout
6	.455 (11.56)	.3750-.05P-.1L-2A	.330 (8.38)	.448 (11.38)
7	.520 (13.21)	.4375-.05P-.1L-2A	.432 (10.97)	.573 (14.55)
8	.580 (14.73)	.5000-.05P-.1L-2A	.493 (12.52)	.573 (14.55)
9	.645 (16.38)	.5625-.05P-.1L-2A	.551 (14.00)	.635 (16.13)
10	.705 (17.91)	.6250-.05P-.1L-2A	.620 (15.75)	.698 (17.73)
11	.770 (19.56)	.6875-.05P-.1L-2A	.662 (16.81)	.760 (19.30)
13	.895 (22.73)	.8125-.1P-.2L-2A	.703 (17.86)	.885 (22.48)
16	1.080 (27.43)	1.0000-.1P-.2L-2A	.863 (21.92)	1.075 (27.30)
17	1.145 (29.08)	1.0625-.1p-.2L-2a	.912 (23.16)	1.135 (28.83)
19	1.283 (32.59)	1.8750-.1p-.2L-2a	1.018 (25.86)	1.260 (32.00)
21	1.415 (35.94)	1.3125-.1p-.2L-2a	1.170 (29.72)	1.385 (35.18)

#### Material / finish

- Shell: stainless steel / passivated or plated
- Contacts, hermetic: Nickel alloy / gold plate
- Contacts, cable adapter: copper alloy / gold plate
- Insulator, hermetic: full glass / N.A.
- Insulator, co-ax: rigid dielectric / N.A.
- Seals, O-rings: fluorosilicone blend / N.A.

Dimensions in Inches (millimeters) are subject to change without notice.

# Series 801 Mighty Mouse Double-Start ACME Thread Hermetic Receptacle with Co-Ax Pin Contacts

## 801-059 Shell Style -07 Dimensions



Series 801

### Jam-nut receptacle - shell style 07

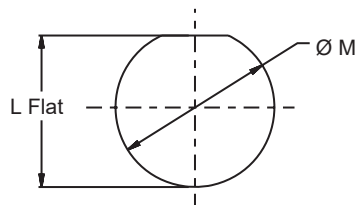


Dimensions							
Shell Size	Ø A	J Flat	H Flat	B Thread	K Thread	Ø N	Ø P
6	.455 (11.56)	.410 (10.41)	.595 (15.11)	.3750-.05P-.1L-2A	.4375-28 UNEF-2A	.330 (8.38)	.236 (5.99)
7	.520 (13.21)	.536 (13.61)	.723 (18.36)	.4375-.05P-.1L-2A	.5625-32 UN-2A	.432 (10.97)	.324 (8.23)
8	.580 (14.73)	.536 (13.61)	.723 (18.36)	.5000-.05P-.1L-2A	.5625-32 UN-2A	.493 (12.52)	.390 (9.91)
9	.645 (16.38)	.596 (15.14)	.790 (20.07)	.5625-.05P-.1L-2A	.6250-28 UN-2A	.551 (14.00)	.444 (11.28)
10	.705 (17.91)	.658 (16.71)	.855 (21.72)	.6250-.05P-.1L-2A	.6875-28 UN-2A	.620 (15.75)	.520 (13.21)
11	.770 (19.56)	.718 (18.24)	.925 (23.50)	.6875-.05P-.1L-2A	.7500-28 UN-2A	.662 (16.81)	.557 (14.15)
13	.895 (22.73)	.845 (21.46)	1.044 (26.52)	.8125-.1P-.2L-2A	.8750-28 UN-2A	.703 (17.86)	.596 (15.14)
16	1.080 (27.43)	1.022 (25.96)	1.230 (31.24)	1.0000-.1P-.2L-2A	1.0625-20 UN-2A	.863 (21.92)	.756 (19.20)
17	1.145 (29.08)	1.096 (27.84)	1.290 (32.77)	1.0625-.1p-.2l-2a	1.1250-28 UN-2A	.912 (23.16)	.805 (20.45)
19	1.283 (32.59)	1.225 (31.12)	1.415 (35.94)	1.8750-.1p-.2l-2a	1.2500-28 UN-2A	1.018 (25.86)	.910 (23.11)
21	1.415 (35.94)	1.346 (34.19)	1.577 (40.06)	1.3125-.1p-.2l-2a	1.3750-28 UN-2A	1.170 (29.72)	1.061 (26.95)

#### Material / finish

- Shell, jam-nut: stainless steel / passivated or plated
- Contacts, hermetic: Nickel alloy / gold plate
- Contacts, cable adapter: copper alloy / gold plate
- Insulator, hermetic: full glass / N.A.
- Insulator, co-ax: rigid dielectric / N.A.
- Seals, O-rings: fluorosilicone blend / N.A

Jam-Nut Rear Panel Mount Panel Cutout			
Shell Size	L Flat		Ø M
	+ .004 (.10)	- .000 (.00)	+ .005 (.13)
5	.354 (8.99)		.380 (9.65)
6	.414 (10.52)		.443 (11.25)
7	.540 (13.72)		.567 (14.40)
8	.540 (13.72)		.567 (14.40)
9	.600 (15.24)		.630 (16.00)
10	.662 (16.81)		.693 (17.60)
11	.724 (18.39)		.760 (19.30)
13	.849 (21.56)		.880 (22.35)
16	1.026 (26.06)		1.067 (27.10)
17	1.100 (27.94)		1.130 (28.70)
19	1.231 (31.27)		1.255 (31.88)
21	1.350 (34.29)		1.380 (35.05)



Recommended Panel Cutout Shell Style -07

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