



Series 801 Mighty Mouse Double-Start ACME Thread Receptacle with Crimp Contacts

801-009 and 801-010 Ordering Information



Series 801 Mighty Mouse Receptacle Connector features a double-start modified stub ACME mating thread for improved protection against cross-mating and thread damage. Connector shells are machined aluminum or stainless steel. Supplied with crimp contacts, packaged separately. Terminate contacts with standard M22520 tools. Metal clips inside the connector body lock contact into place. Contacts are removable. Fluorosilicone seals and rear grommet protect connector from water ingress. Terminate cable shield directly to band platform with Band-Master™ ATS strap or choose rear accessory thread to attach optional cable clamp or backshell. Available in shell sizes 5 through 21 with 67 contact arrangements.

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How To Order						
Sample Part Number	801-010	-02	Z1	16-55	S	A
Series (See Table I)	801-009 = Receptacle with Banding Platform 801-010 = Receptacle with Accessory Thread					
Shell Style (See Table II)	-01 = Cable Receptacle -02 = Square Flange, Front or Rear Panel Mount with Thru-Holes -12 = Square Flange, Rear Panel Mount with "Non-Locking" Clinch Nuts; Consult Factory for SST Material -22 = Square Flange, Rear Panel Mount with "Locking" Clinch Nuts; Consult Factory for SST Material -07 = Jam-Nut, Rear Panel Mount					
Material and Finish	M = Aluminum / Electroless Nickel MT = Aluminum / Nickel-PTFE NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated					
Shell Size - Insert Arr	See Contact Arrangements page D-3					
Contact Type	P = Pin, Crimp A = Pin Connector, Less Contacts S = Socket, Crimp B = Socket Connector, Less Contacts G = #23 Pin with 30 AWG Crimp Barrel H = #23 Socket with 30 AWG Crimp Barrel					
Polarization (See Table III)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F G = Pos. G H = Pos. H J = Pos. J					

NOTES

1. Contacts are crimp type, and used in a rear release retention system
2. Receptacle mates with all quick coupling high density receptacle connectors with same polarization and opposite contact gender
3. Connectors supplied with standard crimp contacts. For coax or other special contacts, order connector less contacts (Contact style A or B) and order contacts separately
4. For all insert arrangements with size #8 contacts add .235" to overall length of 801-010 and .340" to 801-009 overall length
5. Grommet protrudes for power/combo size #8 arrangements

Table III: Keyway Positions

Position	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

Table I: Series	
800-009 Banding Platform	801-010 Rear Accessory Thread

Table II: Shell Style		
Style -01 In-line	Style -02/-12/-22 Square Flange	Style -07 Jam-Nut

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

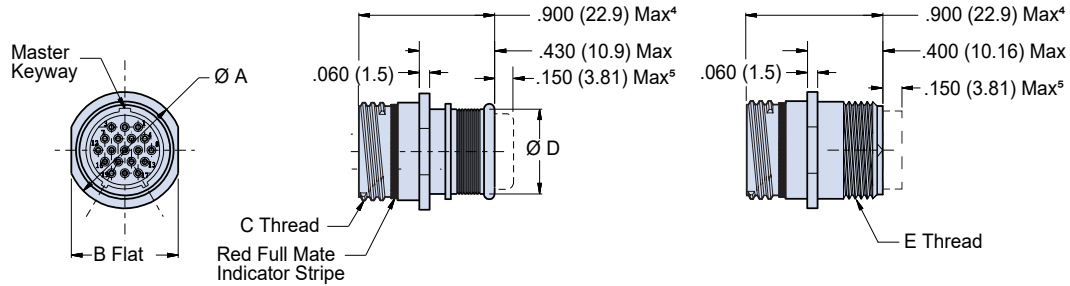
Series 801 Mighty Mouse Double-Start ACME Thread Receptacle with Crimp Contacts

801-009-01 and 801-010-01 Dimensions



Series 801

In-line receptacle - shell style 01



Integral Band Platform 801-009-01

Accessory Thread 801-010-01

Dimensions					
Shell Size	Ø A	B Flat	C Thread	Ø D	E Thread UNEF-2A
5	.355 (9.02)	.325 (8.25)	.3125-.05P-.1L-DS-2A	.245 (6.22)	.2500-32
6	.415 (10.54)	.385 (9.78)	.3750-.05P-.1L-DS-2A	.290 (7.37)	.3125-32
7	.480 (12.19)	.445 (11.30)	.4375-.05P-.1L-DS-2A	.390 (9.91)	.4375-28
8	.540 (13.72)	.510 (12.95)	.5000-.05P-.1L-DS-2A	.445 (11.30)	.5000-28
9	.605 (15.37)	.575 (14.60)	.5625-.05P-.1L-DS-2A	.500 (12.70)	.5625-24
10	.665 (16.89)	.635 (16.13)	.6250-.05P-.1L-DS-2A	.560 (14.22)	.6250-24
11	.730 (18.54)	.700 (17.78)	.6875-.05P-.1L-DS-2A	.605 (15.37)	.6875-24
13	.855 (21.72)	.825 (20.96)	.8125-.1P-.2L-DS-2A	.650 (16.51)	.6875-24
16	1.040 (26.42)	1.010 (25.65)	1.0000-.1P-.2L-DS-2A	.805 (20.45)	.9375-20
17	1.110 (28.19)	1.070 (27.18)	1.0625-.1P-.2L-DS-2A	.850 (21.59)	.9375-20
19	1.243 (31.57)	1.191 (30.25)	1.1875-.1P-.2L-DS-2A	1.003 (25.48)	1.0625-18
21	1.375 (34.92)	1.312 (33.32)	1.3125-.1P-.2L-DS-2A	1.110 (28.19)	1.1875-18

Material / finish:

- Shell: aluminum alloy or CRES; see How to Order Table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-rings, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over a suitable underplate

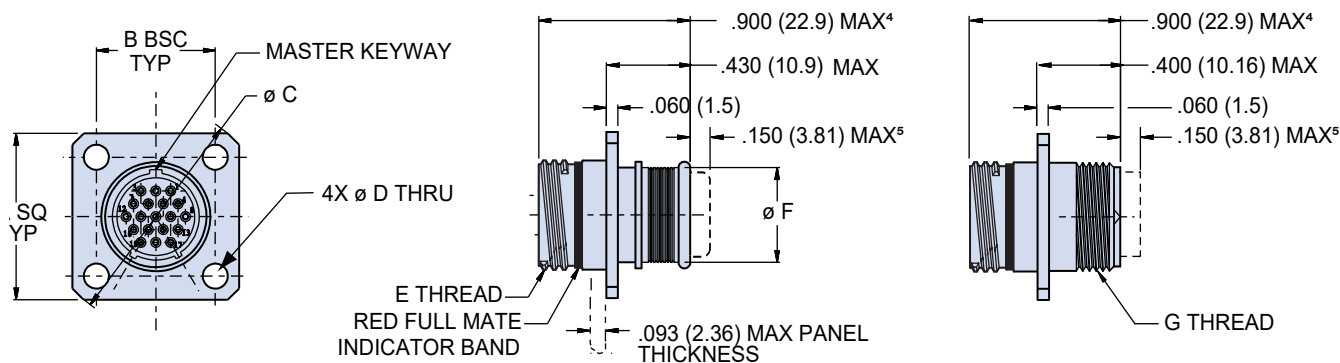
Dimensions in Inches (millimeters) are subject to change without notice.



Series 801 Mighty Mouse Double-Start ACME Thread Receptacle with Crimp Contacts

801-009-02 and 801-010-02 Dimensions

Square flange, front or rear panel mount receptacle - shell style 02



Integral Band Platform 801-009-02

Accessory Thread 801-010-02

Dimensions							
Shell Size	A SQ	B BSC	$\varnothing C$	$\varnothing D$	E Thread	$\varnothing F$	G Thread UNEF-2A
5	.530 (13.46)	.363 (9.22)	.680 (17.27)	.096 (2.44) .091 (2.31)	.3125-.05P-.1L-DS-2A	.245 (6.22)	.2500-32
6	.590 (14.99)	.423 (10.74)	.750 (19.05)		.3750-.05P-.1L-DS-2A	.290 (7.37)	.3125-32
7	.650 (16.51)	.483 (12.27)	.850 (21.59)		.4375-.05P-.1L-DS-2A	.390 (9.91)	.4375-28
8	.712 (18.08)	.545 (13.84)	.938 (23.83)		.5000-.05P-.1L-DS-2A	.445 (11.30)	.5000-28
9	.850 (21.59)	.607 (15.42)	1.125 (28.58)	.130 (3.30) .126 (3.20)	.5625-.05P-.1L-DS-2A	.500 (12.70)	.5625-24
10	.890 (22.61)	.670 (17.02)	1.188 (30.18)		.6250-.05P-.1L-DS-2A	.560 (14.22)	.6250-24
11	.935 (23.75)	.715 (18.16)	1.250 (31.75)		.6875-.05P-.1L-DS-2A	.605 (15.37)	.6875-24
13	1.030 (26.16)	.812 (20.62)	1.375 (34.92)		.8125-.1P-.2L-DS-2A	.650 (16.51)	.6875-24
16	1.219 (30.96)	.981 (24.92)	1.625 (41.28)		1.0000-.1P-.2L-DS-2A	.805 (20.45)	.9375-20
17	1.280 (32.51)	1.060 (26.92)	1.700 (43.18)		1.0625-.1P-.2L-DS-2A	.850 (21.59)	.9375-20
19	1.432 (36.37)	1.191 (30.25)	1.900 (48.26)		1.1875-.1P-.2L-DS-2A	1.003 (25.48)	1.0625-18
21	1.565 (39.75)	1.322 (33.58)	2.100 (53.34)		1.3125-.1P-.2L-DS-2A	1.110 (28.19)	1.1875-18

Square Flange, Recommended Panel Cutout

Technical drawing of a shell and tube heat exchanger cross-section. The drawing shows a central circular shell with four smaller circular tubes arranged in a square pattern. Dimension lines indicate:
 - $4 \times \varnothing C$: Four tubes of diameter $\varnothing C$.
 - $B \text{ BSC}$: Shell thickness.
 - $\varnothing A$: Shell diameter.

Shell Size	$\varnothing A$ $\pm .005 (.13)$	B BSC	$\varnothing C$
5	.328 (8.33)	.363 (9.22)	.096 (2.44) .091 (2.31)
6	.390 (9.91)	.423 (10.74)	
7	.453 (11.51)	.483 (12.27)	
8	.515 (13.08)	.545 (13.84)	.130 (3.30) .126 (3.20)
9	.578 (14.68)	.607 (15.42)	
10	.640 (16.26)	.670 (17.02)	
11	.703 (17.86)	.715 (18.16)	
13	.828 (21.03)	.812 (20.62)	
16	1.015 (25.78)	.981 (24.92)	
17	1.078 (27.38)	1.060 (26.92)	
19	1.203 (30.56)	1.191 (30.25)	
21	1.328 (33.73)	1.322 (33.58)	

Material / finish:

- Shell: aluminum alloy or CRES; see How to Order Table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-rings, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over a suitable underplate

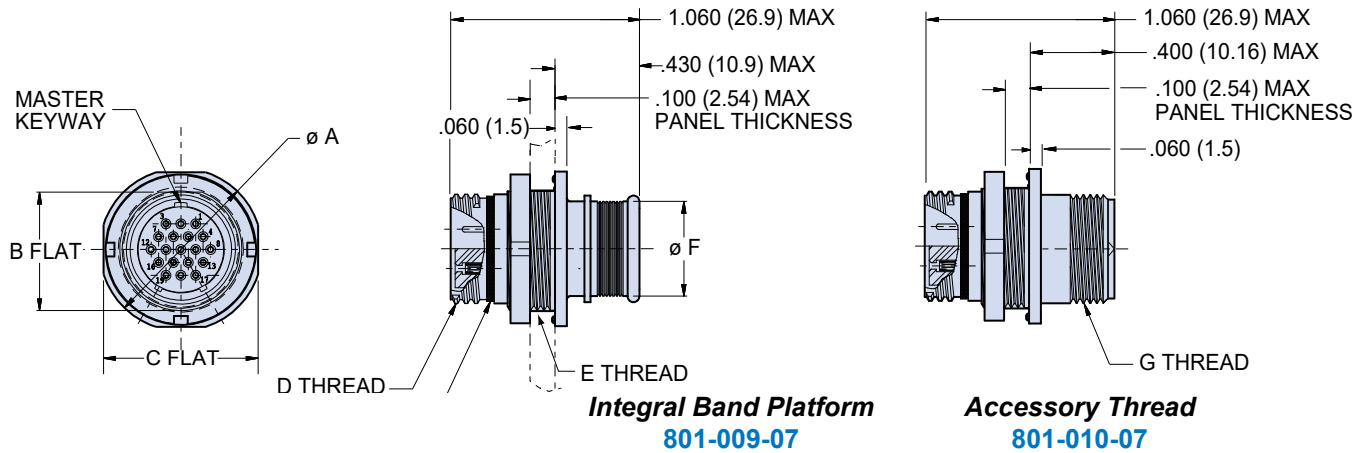
Dimensions in Inches (millimeters) are subject to change without notice.

Series 801 Mighty Mouse Double-Start ACME Thread Receptacle with Crimp Contacts 801-009-07 and 801-010-07 Dimensions



Series 801

Jam-nut, rear panel mount receptacle - shell style 07



Dimensions							
Shell Size	Ø A	B Flat	C Flat	D Thread	E Thread UN-2A	Ø F	G Thread UN-2A
5	.575 (14.60)	.350 (8.89)	.545 (13.84)	.3125-.05P-.1L-2A	.375-28	.245 (6.22)	.250-32
6	.635 (16.13)	.410 (10.41)	.595 (15.11)	.375-.05P-.1L-2A	.4375-28	.290 (7.37)	.3125-32
7	.755 (19.18)	.536 (13.61)	.723 (18.36)	.4375-.05P-.1L2A	.5625-32	.390 (9.91)	.4375-28
8	.755 (19.18)	.536 (13.61)	.723 (18.36)	.5000-.05P-.1L-2A	.5625-32	.445 (11.30)	.5000-28
9	.830 (21.08)	.596 (15.14)	.790 (20.07)	.5625-.05P-.1L-2A	.625-28	.500 (12.70)	.5625-24
10	.890 (22.61)	.658 (16.71)	.855 (21.72)	.6250-.05P-.1L-2A	.6875-28	.560 (14.22)	.6250-24
11	.960 (24.38)	.718 (18.24)	.925 (23.50)	.6875-.05P-.1L-2A	.7500-28	.605 (15.37)	.6875-24
13	1.078 (27.38)	.845 (21.46)	1.044 (26.52)	.8125-.1P-.2L-2A	.875-28	.650 (16.51)	.6875-24
16	1.264 (32.11)	1.022 (25.96)	1.230 (31.24)	1.000-.1P-.2L-2A	1.0625-20	.805 (20.45)	.9375-20
17	1.325 (33.65)	1.096 (27.84)	1.290 (32.77)	1.062-.1P-.2L-2A	1.125-28	.850 (21.59)	.9375-20
19	1.450 (36.83)	1.227 (31.17)	1.415 (35.94)	1.1875-.1P-.2L-2A	1.2500-28	1.003 (25.48)	1.0625-18
21	1.625 (41.28)	1.347 (34.21)	1.577 (40.06)	1.3125-.1P-.2L-2A	1.375-28	1.110 (28.19)	1.1875-18

Series 801 Jam-Nut Panel Cutout			
	Shell Size	A Flat ± .002 (± 0.05)	Ø B +.005 (+.13) -.000 (-.00)
	5	.356 (9.04)	.380 (9.65)
	6	.416 (10.57)	.443 (11.25)
	7	.542 (13.77)	.567 (14.40)
	8	.542 (13.77)	.567 (14.40)
	9	.602 (15.29)	.630 (16.00)
	10	.664 (16.87)	.693 (17.60)
	11	.730 (18.54)	.760 (19.30)
	13	.851 (21.62)	.880 (22.35)
	16	1.028 (26.11)	1.067 (27.10)
	17	1.102 (27.99)	1.130 (28.70)
	19	1.243 (31.57)	1.260 (32.00)
	21	1.352 (34.34)	1.380 (35.05)

Material / finish:

- Shell, jam-nut: aluminum alloy or CRES; see How to Order Table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-rings, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over a suitable underplate

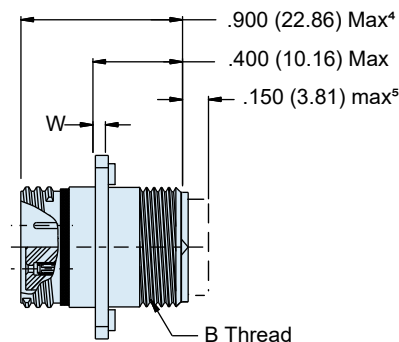
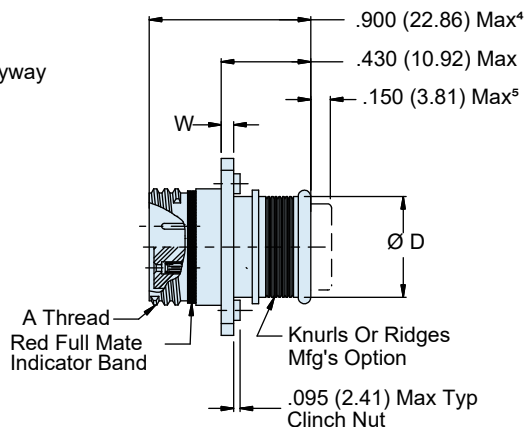
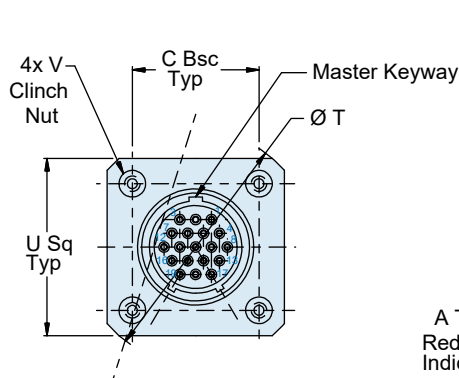
Dimensions in Inches (millimeters) are subject to change without notice.



Series 801 Mighty Mouse Double-Start ACME Thread Receptacle with Crimp Contacts

801-009-12/-22 and 801-010-12/-22 Dimensions

Rear panel mount receptacle - shell style 12 and 22



Integral Band Platform
801-009-12 and 801-009-22

Accessory Thread
801-010-12 and 801-010-22

D

Dimensions							
Shell Size	A Thread	B Thread	C BSC	Ø T	U SQ	V Clinch Nut	W
5	.3125-.05P-.1L-DS-2A	.2500-32 UNEF-2A	.363 (9.22)	.774 (19.66)	.623 (15.82)	2-56	.030 (0.76)
6	.3750-.05P-.1L-DS-2A	.3125-32 UNEF-2A	.423 (10.74)	.860 (21.84)	.683 (17.35)		
7	.4375-.05P-.1L-DS-2A	.4375-28 UNEF-2A	.483 (12.27)	.944 (23.98)	.743 (18.87)		
8	.5000-.05P-.1L-DS-2A	.5000-28 UNEF-2A	.545 (13.84)	1.032 (26.21)	.805 (20.45)		
9	.5625-.05P-.1L-DS-2A	.5625-24 UNEF-2A	.607 (15.42)	1.180 (29.97)	.927 (23.55)		
10	.6250-.05P-.1L-DS-2A	.6250-24 UNEF-2A	.670 (17.02)	1.268 (32.21)	.990 (25.15)	4-40	.060 (1.52)
11	.6875-.05P-.1L-DS-2A	.6875-24 UNEF-2A	.715 (18.16)	1.331 (33.81)	1.035 (26.29)		
13	.8125-.1P-.2L-DS-2A	.6875-24 UNEF-2A	.812 (20.62)	1.470 (37.34)	1.132 (28.75)		
16	1.0000-.1P-.2L-DS-2A	.9375-20 UNEF-2A	.981 (24.92)	1.708 (43.38)	1.301 (33.05)		
17	1.0625-.1P-.2L-DS-2A	.9375-20 UNEF-2A	1.060 (26.92)	1.822 (46.28)	1.382 (35.10)		
19	1.1875-.1P-.2L-DS-2A	1.0625-18 UNEF-2A	1.191 (30.25)	2.006 (50.95)	1.511 (38.38)		
21	1.3125-.1P-.2L-DS-2A	1.1875-18 UNEF-2A	1.322 (33.58)	2.190 (55.63)	1.642 (41.71)		

Series 801 Front and Rear Mount Panel Cutout

	Shell Size	G Bsc	H Holes	Ø R ±.005 (.13)
	5	.363 (9.22)	.096 (2.44) .091 (2.31)	.328 (8.33)
	6	.423 (10.74)		.390 (9.91)
	7	.483 (12.27)		.453 (11.51)
	8	.545 (13.84)		.515 (13.08)
	9	.607 (15.42)		.578 (14.68)
	10	.670 (17.02)	.130 (3.30) .126 (3.20)	.640 (16.26)
	11	.715 (18.16)		.703 (17.86)
	13	.812 (20.62)		.828 (21.03)
	16	.981 (24.92)		1.015 (25.78)
	17	1.060 (26.92)		1.078 (27.38)
	19	1.191 (30.25)		1.203 (30.56)
	21	1.322 (33.58)		1.328 (33.73)

Material / finish:

- Shell: aluminum alloy or CRES; see How to Order Table
- Insulator: high grade rigid dielectric / N.A.
- Interfacial seal, O-rings, grommet: fluorosilicone / N.A.
- Contact: copper alloy / gold plate per ASTM B 488, Type II, Code C, Class 1.25, over a suitable underplate

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