

Series 800 Mighty Mouse with UN Mating Thread Table of Contents & Product Selection Guide



SECTION C SERIES 800 PRODUCT SELECTION GUIDE

Plugs

Page C-5

800-006, 800-007,
800-008, 800-009



Series 800 Plugs

Available with hex shaped or round, knurled coupling nuts. The integral shield termination platform accepts heat-shrink boots (ordered separately), or select accessory threads for use with a variety of strain relief and backshell accessory options.

Crimp Receptacles

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800-010, 800-011



Series 800 Receptacles for Insulated Wire

Jam nut, square flange and in-line versions make it easy to find a style for every application. The integral shield termination platform accepts heat-shrink boots (ordered separately), or select accessory threads for use with a variety of strain relief and backshell accessory options. Contacts are crimp-type and are packaged with the connector.

Solder Cup/PCB Receptacles

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800-012, 800-040



Series 800 Receptacles With Solder Cup or PCB Termination

These panel mount connectors feature gold plated, factory-installed non-removeable contacts. Choose printed circuit terminals for attachment to flex circuits or rigid boards, or choose solder cup contacts. Connectors are potted with epoxy for general purpose applications, or choose silicone-sealed, leak-tested versions for 1 meter water immersion.

Right Angle PCB Headers

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800-032



Right Angle PCB Receptacles

Supplied with factory-installed, non-removable PC tail contacts for attachment to rigid boards or flex circuits. Epoxy-sealed. Includes threaded inserts for attachment to PC board.

Hermetic Receptacles

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800-013



Series 800 Hermetic Receptacles

Need a miniaturized hermetic for a sealed box or instrument? These stainless steel, glass-sealed connectors are available with solder cup or PC tail contacts. Choose jam nut, square flange or solder mount versions. Contacts are gold plated iron alloy. 100% tested to meet 1 X 10⁻⁶ cc/sec helium leakage. Open face pressure rating 1000 PSI.

Cordsets

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800-034, 800-041,
800-038, 800-039



Series 800 Cordsets

Specify overmolded cordsets for optimum convenience and performance. Select standard polyurethane-jacketed cable for general purpose applications, or choose low-smoke, zero halogen polyurethane for applications where toxic combustion products are restricted.

Protective Covers

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667-184, 667-185



Series 800 Protective Covers

Thread-on metal covers provide a watertight seal and prevent damage. Select nylon cord or wire rope lanyards with a range of ring terminal diameters to fit just about any need.

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

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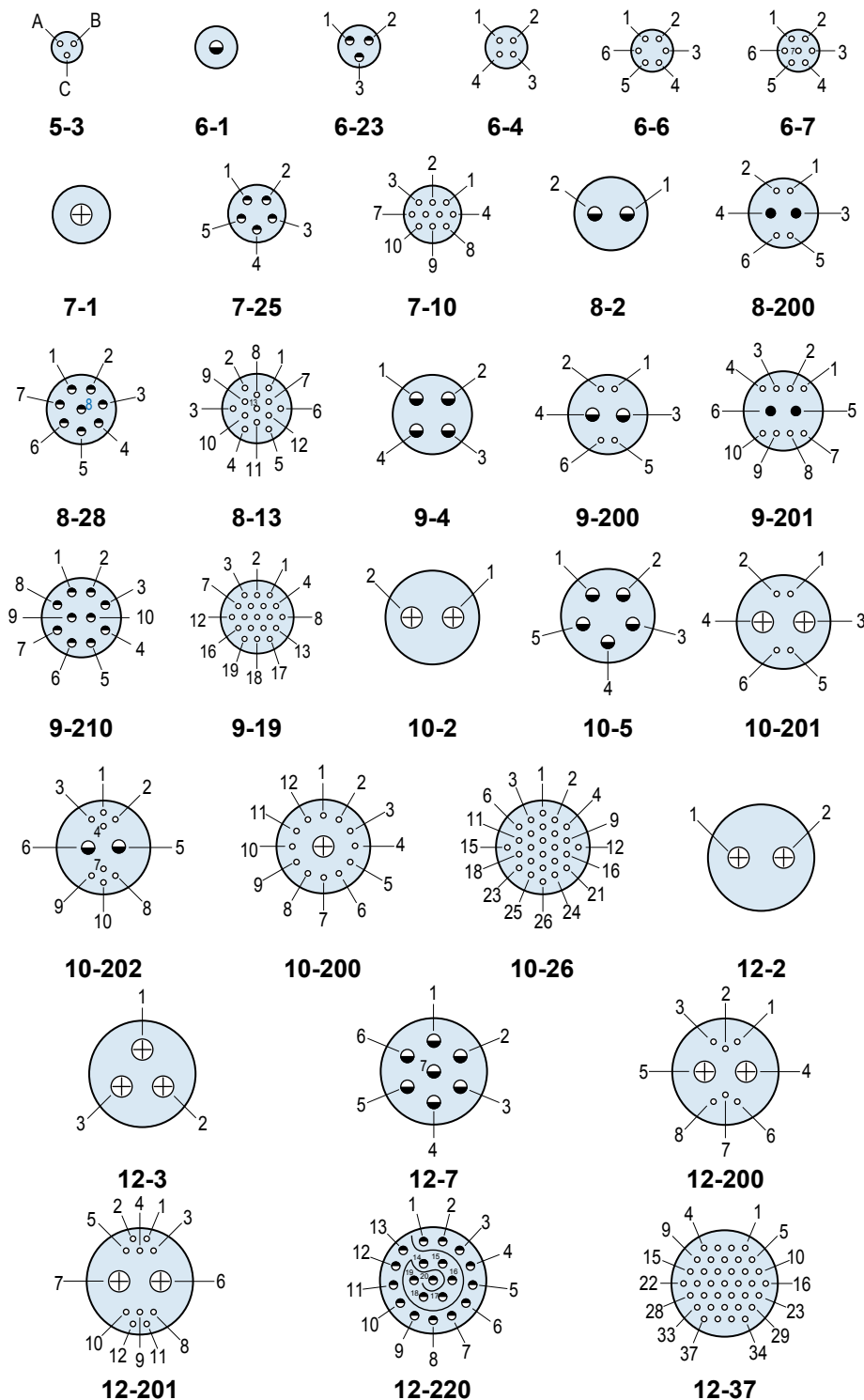
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Series 800 Mighty Mouse with UN Mating Thread Contact Arrangements

CONTACT ARRANGEMENTS

Contact Arr.	No. of Contacts				
	#23	#20	#20HD	#16	#12
5-3	3				
6-1				1	
6-23			3		
6-4	4				
6-6	6				
6-7	7				
7-1					1
7-25			5		
7-10	10				
8-2				2	
8-28			8		
8-13	13				
8-200	4	2			
9-4				4	
9-210			10		
9-19	19				
9-200	4			2	
9-201	8	2			
10-2					2
10-5				5	
10-26	26				
10-200	12				1
10-201	4				2
10-202	8			2	
12-2					2
12-3					3
12-7				7	
12-220			20		
12-37	37				
12-200	6				2
12-201	10				2

Mating Face View of Pin Connector (socket connector numbers are reversed)



Contact Legend

#23 ◯ #20HD ◯ #20 ● #16 ◐ #12 ⊕

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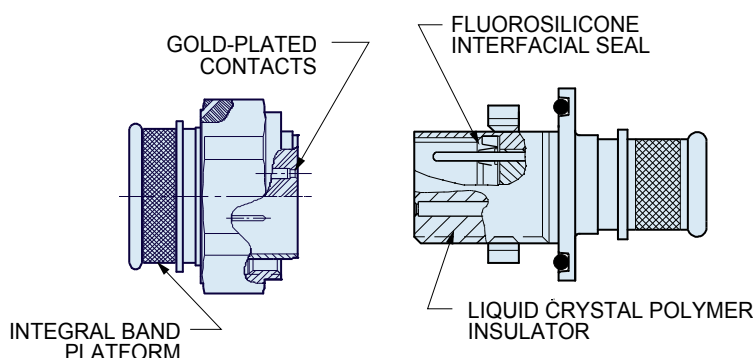
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Series 800 Mighty Mouse with UN Mating Thread General Information



Series 800



- Threaded Coupling Mechanism
- Crimp Rear Release Contacts
- Integral Band Platform
- Available with Size #12, #16, #20, #20HD and #23 Contacts
- Environmentally Sealed

Glenair's Original Mighty Mouse Offers Environmental Sealing and Rugged Design in a Lightweight, Ultraminiature Package

Series 800 connectors are intended for light and medium duty applications where size, weight and cost outweigh the need for heavier-duty Series 80 connectors. Terminate shielded cable directly to the integral band platform for excellent EMI protection. Originally used for aerospace sensors, these Series 800 connectors have proven to be a good solution for small form factor tactical equipment including keyboards, radios, ruggedized RPDA's and other dismounted soldier equipment. These connectors meet the requirements of MIL-STD-810 for immersion, vibration, sand and dust, shock, and corrosion resistance.



SPECIFICATIONS

Current Rating	#23 5 A., #20 7.5 A., #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #20HD 750 VAC, #12 and #16 1800 VAC
Insulation Resistance	5000 megohms minimum
Operating Temperature	-55° C. to +150° C.
Shock	300 g.
Vibration	37 g.
Shielding Effectiveness	55 dB minimum from 100MHz to 1000MHz.
Durability	2000 mating cycles

MATERIALS AND FINISHES

Shells, Jam Nuts	Aluminum alloy or stainless steel
Contacts	Copper alloy, 50 µinch gold plated
Insulators	Liquid crystal polymer (LCP)
Contact Retention Clip	Beryllium copper alloy
Interfacial Seal, O-rings, Wire Sealing Grommet	Fluorosilicone rubber

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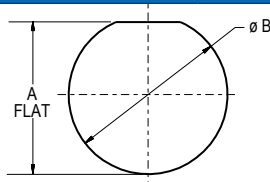
Series 800 Mighty Mouse with UN Mating Thread Connector Weights and Panel Cutouts

CONNECTOR WEIGHTS

Maximum Weight In Grams

Layout	Cable Plug	J/N Recep	
		Crimp Contacts	PCB Contacts
5-3P	3.6	2.5	2.5
5-3S	3.7	2.6	2.6
6-1P	4.3	3.2	3.2
6-1S	4.4	3.3	3.3
6-4P	4.8	3.7	3.9
6-4S	5.2	4.0	3.7
6-7P	4.8	3.6	3.7
6-7S	4.7	4.0	3.9
7-1P	5.7	4.7	4.4
7-1S	5.9	5.0	4.5
7-10P	6.9	5.7	5.1
7-10S	7.4	6.2	5.4
8-2P	7.4	6.2	6.2
8-2S	8.1	6.9	6.9
8-13P	6.7	5.5	5.5
8-13S	7.2	5.9	5.9
8-200P	7.7	6.5	6.5
8-200S	8.4	7.2	7.2
9-4P	8.7	7.4	6.7
9-4S	8.8	7.6	6.8
9-19P	10.5	9.2	7.7
9-19S	11.2	9.6	7.9
9-200P	8.3	6.8	6.2
9-200S	9.4	7.9	7.3
9-201P	8.4	6.9	6.3
9-201S	9.5	8.0	7.4
10-5P	9.7	9.9	12.2
10-5S	11.1	11.3	13.6
10-26P	7.9	8.1	10.5
10-26S	8.6	8.4	9.9
10-200P	8.8	9.0	11.3
10-200S	10.3	10.6	12.8
10-201P	9.1	9.4	11.7
10-201S	10.7	10.9	13.2
10-202P	8.8	9.0	11.2
10-202S	10.2	10.5	12.8
12-2P	10.5	10.1	11.6
12-2S	10.6	10.2	11.7
12-3P	10.7	10.3	11.8
12-3S	10.8	10.5	11.9
12-7P	14.3	13.8	15.3
12-7S	16.9	16.5	17.9
12-37P	12.5	12.1	13.5
12-37S	16.1	13.6	14.9
12-200P	13.2	12.8	14.2
12-200S	15.5	15.1	16.5
12-201P	13.3	12.9	14.3
12-201S	15.7	15.3	16.7

SERIES 800 PANEL CUTOUTS



Shell Size	A Flat		øB	
	In.	mm.	In.	mm.
5	.295/.299	7.49/7.59	.317/.327	8.05/8.30
6	.358/.362	9.09/9.19	.380/.390	9.65/9.91
7	.424/.428	10.77/10.87	.442/.452	11.23/11.48
8	.479/.483	12.16/12.26	.505/.515	12.83/13.08
9	.537/.541	13.64/13.74	.567/.577	14.40/14.66
10	.610/.614	15.49/15.59	.630/.640	16.00/16.26
12	.717/.721	18.21/18.31	.755/.765	19.18/19.43

SERIES 800 RECOMMENDED TORQUE VALUES

Shell Size	Coupling Torque				Jam Nut				Backshell			
	In-Lbs.		N-m		In-Lbs.		N-m		In-Lbs.		N-m	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
5	13	17	1.5	1.9	20	25	2.2	2.8	13	17	1.5	1.9
6	18	22	2.0	2.5	20	25	2.2	2.8	18	22	2.0	2.5
7	20	25	2.3	2.8	20	25	2.2	2.8	30	40	3.4	4.5
8	30	40	3.4	4.5	20	25	2.2	2.8	30	40	3.4	4.5
9	30	40	3.4	4.5	25	30	2.8	3.3	35	45	4.0	5.1
10	35	45	4.0	5.1	25	30	2.8	3.3	35	45	4.0	5.1
12	35	45	4.0	5.1	25	30	2.8	3.3	35	45	4.0	5.1

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Series 800 Mighty Mouse with UN Mating Thread Plug Connector Ordering Information

800-006 Thru 800-009



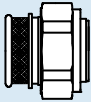
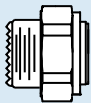
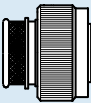
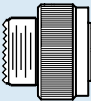
Series 800



Series 800 Plug Connector

Glenair's smallest Mighty Mouse connector has compact size and rugged design for hostile environments. UN mating thread. Connector shells are machined aluminum or stainless steel. Supplied with crimp contacts, packaged separately. Terminate contacts with standard M2520 tools. Metal clips inside the connector body lock contact into place. Contacts are removable. Fluorosilicone seals and rear grommet protect connector from water ingress. Choose hex or knurled coupling nut. Terminate cable shield directly to connector body with BAND-IT strap, or choose rear accessory thread to attach optional cable clamp or backshell. Available in shell sizes 5 through 12 in 31 contact arrangements.

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HOW TO ORDER					
Sample Part Number					
800-006	-06	M	7-10	P	Z
Series	Shell Style	Shell Material / Finish	Shell Size- Insert Arrangement	Contact Type	Shell Key Position
 800-006 Hex Plug with Banding Platform  800-007 Hex Plug with Accessory Thread  800-008 Knurled Round Plug with Band Platform  800-009 Knurled Round Plug with Accessory Thread	-06 Standard Coupling Nut -16 Coupling Nut with Anti-Decoupling Wave Spring	C Aluminum / Black Anodize (Non-Conductive) RoHS Compliant M Aluminum / Electroless Nickel RoHS Compliant NF Aluminum / Cadmium with Olive Drab Chromate ZN Aluminum / Zinc-Nickel with Olive Drab Chromate ZNU Aluminum / Zinc-Nickel with Black Chromate MT Aluminum / Nickel-PTFE RoHS Compliant Z1 Stainless Steel / Passivated RoHS Compliant	SEE CONTACT ARRANGEMENTS PAGE C-2	Connector supplied with contacts P Pin S Socket Connector supplied without contacts A Pin Connector, less contacts B Socket Connector, less contacts Connectors with contacts are supplied with signal and/or power crimp contacts. These contacts are not installed. Coaxial contacts and non-standard signal contacts are ordered separately.	N Normal X Pos. X Y Pos. Y Z Pos. Z

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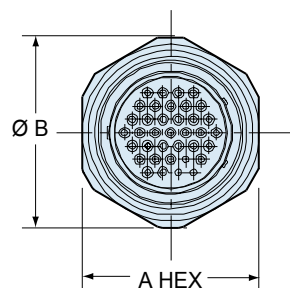
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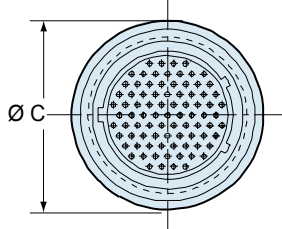
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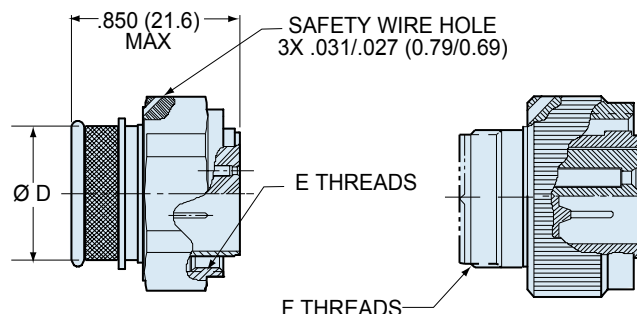
Series 800 Mighty Mouse with UN Mating Thread Plug Connector Dimensions 800-006 Thru 800-009



Hex Coupling Nut
800-006
800-007



**Round Knurled
Coupling Nut**
800-008
800-009



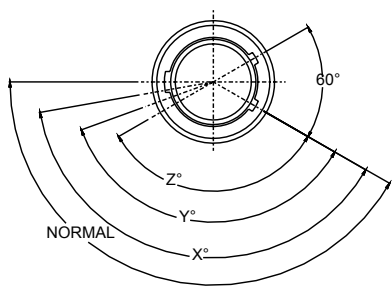
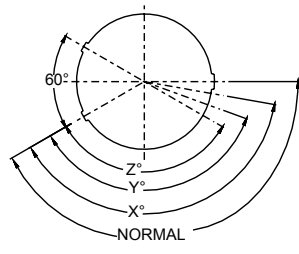
**Integral Band
Platform**
800-006
800-008

Accessory Threads
800-007
800-009

DIMENSIONS

Shell Size	A Hex Style 06		A Hex Style 16		Ø B Style 06		Ø B Style 16		Ø C Style 06		Ø C Style 16		Ø D		E Threads Coupling Nut	F Threads Accessory
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.		
5	.430	10.92	.495	12.57	.470	11.94	.540	13.72	.430	10.92	.490	12.45	.230	5.84	.3125-28 UN-2B	.250-32 UNEF-2A
6	.500	12.70	.563	14.30	.550	13.97	.620	15.75	.500	12.70	.560	14.22	.286	7.26	.3750-28 UN-2B	.3125-32 UNEF-2A
7	.625	15.88	.720	18.29	.680	17.27	.800	20.32	.620	15.75	.680	17.27	.390	9.91	.4375-28 UNEF-2B	.4375-28 UNEF-2A
8	.680	17.27	.743	18.87	.750	19.05	.830	21.08	.680	17.27	.750	19.05	.445	11.30	.5000-32 UN-2B	.5000-28 UNEF-2A
9	.750	19.05	.813	20.65	.830	21.08	.890	22.61	.750	19.05	.810	20.57	.500	12.70	.5625-32 UN-2B	.5625-24 UNEF-2A
10	.812	20.62	.875	22.23	.900	22.86	.960	24.38	.810	20.57	.880	23.35	.565	14.35	.6250-32 UN-2B	.6250-24 UNEF-2A
12	.875	22.23	.938	23.83	.970	24.64	1.030	26.16	.880	22.35	.940	23.88	.650	16.51	.7500-28 UN-2B	.6875-24 UNEF-2A

SERIES 800 KEY POSITIONS

Key Position	Key Rotation		
Normal (N)	150°		
X	140°		
Y	130°		
Z	120°		
Shell size 5 and 6: master key is located at top dead center for normal (N) position. Shell size 7 thru 12: master key is rotated 90° from TDC for normal position.		Plug Key Position	Receptacle Key Position

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