SERIES 805

MIGHTY MOUSE TRIPLE-START COUPLING

BONAFIDE D38999 WORKALIKE AT HALF THE SIZE AND WEIGHT

The Series 805 Mighty Mouse Connector brings true D38999 type packaging and performance to miniaturized interconnection systems. The triple-start coupling mechanism, with its self-locking coupling nut, is as close as you can get to true D38999 connector performance—without adding all the size and weight. And only Mighty Mouse offers the range of layouts, connector classes, terminations, and backshell accessories you expect in a mature connector product line—again, just like D38999 (but this time without the spare tire).

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SECTION C SERIES 805 TRIPLE-START PRODUCT SELECTION GUIDE

Plugs
Page H-6
805-001, 805-002

Series 805 Plugs
These connectors are supplied with a full complement of contacts for termination to insulated wire. The integral shield termination platform accepts ***BAND-IT***® stainless steel bands (ordered separately), or select connectors with accessory threads for use with a variety of strain relief options. Contacts are crimp-type, and are packaged with the connector.

Crimp Receptacles
Page H-8
805-003, 805-004

Series 805 Receptacles for Insulated Wire
Jam nut for rear panel mounting, square flange and in-line versions make it easy to find a style for every application. The integral shield termination platform accepts ***BAND-IT***® stainless steel bands (ordered separately), or select connectors with accessory threads for use with a variety of strain relief options. Contacts are crimp-type, and are packaged with the connector.

Solder Cup/PCB Receptacles
Page H-12
805-005, 805-017

Series 805 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.

Hermetic Receptacles
Page H-15
800-032

Series 805 Hermetic Receptacles
Need a 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.

Sav-Con®
Page H-19
805-010

Series 805 Sav-Con® Connector Savers
Protect expensive test equipment and cables with Glenair Sav-Con® connector savers. These plug/receptacle adapters feature non-removable contacts and a ratcheting coupling mechanism to prevent loosening under vibration.

Cordsets
Page H-21
800-034, 800-041,
800-038, 800-039

Series 805 Cordsets
Specify overmolded cordsets for optimum convenience and performance. Polyurethane jackets provide excellent all-weather cable protection. Fully shielded, with watertight overmolding.

Protective Covers
Page H-25
667-261, 667-262

Series 805 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.

H

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

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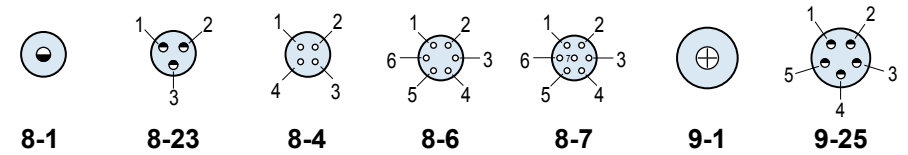
Series 805 Mighty Mouse
Triple-Start Threaded Coupling
Contact Arrangements

CONTACT ARRANGEMENTS

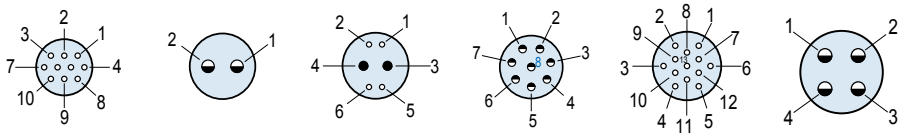
Contact Arr.	No. of Contacts				
	#23	#20	#20HD	#16	#12
8-1				1	
8-23			3		
8-4	4				
8-6	6				
8-7	7				
9-1					1
9-25			5		
9-10	10				
10-2				2	
10-28			8		
10-13	13				
10-200	4	2			
11-4				4	
11-210			10		
11-19	19				
11-200	4			2	
11-201	8	2			
12-2					2
12-5				5	
12-26	26				
12-200	12				1
12-201	4				2
12-202	8			2	
15-2					2
15-3					3
15-7				7	
15-220			20		
15-37	37				
15-200	6				2
15-201	10				2
18-5					5
18-12				12	
18-235			35		
18-55	55				
19-7					7
19-14				14	
19-241			41		
19-85	85				
23-12					12
23-22				22	
23-269			69		
23-130	130				

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

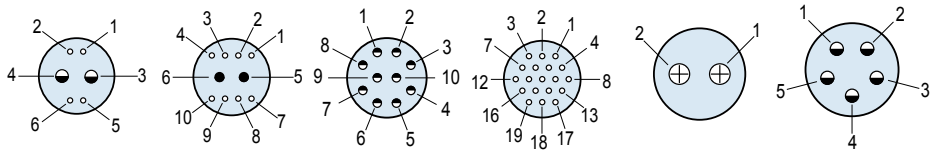
Contact Legend
#23 ◦ #20HD ◒ #20 ● #16 ◒ #12 ⊕



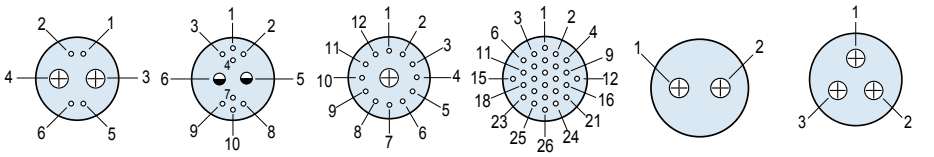
8-1 8-23 8-4 8-6 8-7 9-1 9-25



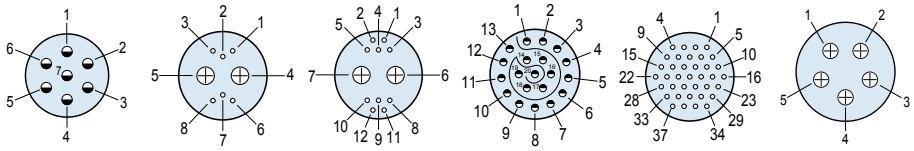
9-10 10-2 10-200 10-28 10-13 11-4



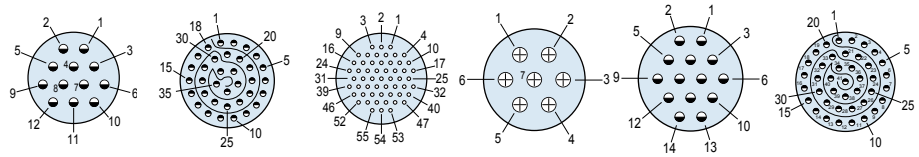
11-200 11-201 11-210 11-19 12-2 12-5



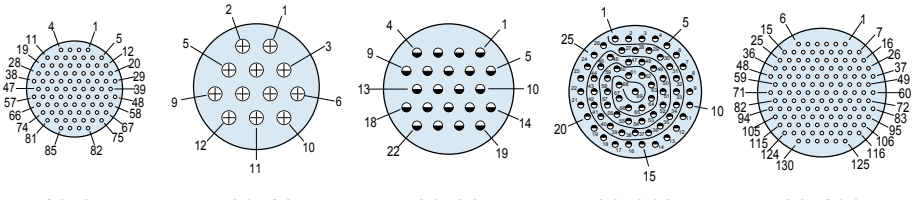
12-201 12-202 12-200 12-26 15-2 15-3



15-7 15-200 15-201 15-220 15-37 18-5



18-12 18-235 18-55 19-7 19-14 19-241



19-85 23-12 23-22 23-269 23-130

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

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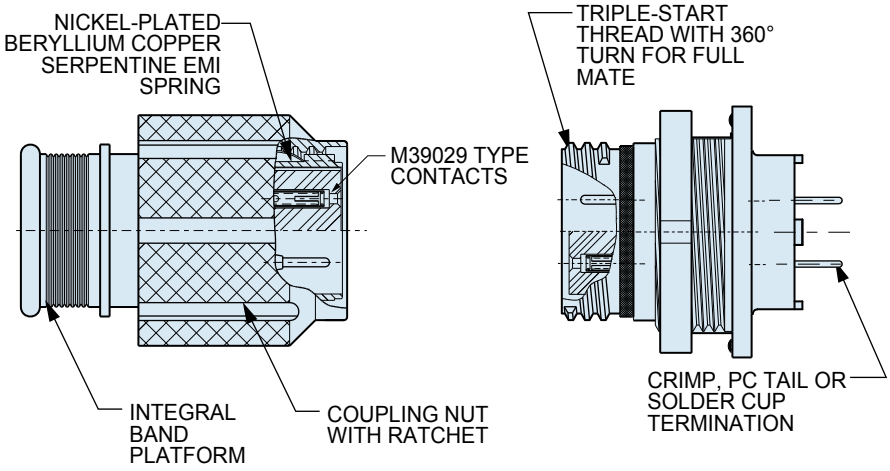

Outstanding EMI Shielding
Nickel-plated beryllium copper ground spring and metal-to-metal bottoming for excellent EMI performance.

Triple-Start Coupling
Rugged ACME threads resist cross-threading and allow fast mating.

Environmentally Sealed
Meets MIL-STD-810 Method 512 immersion.

Ratchet Mechanism
Ratcheting anti-decoupling mechanism prevents coupling nut backoff when subjected to vibration.

Glenair's Series 805 Connector Offers Outstanding EMI Protection and Vibration Resistance in a Miniaturized Package

The Series 805 connector was developed to provide several performance enhancements compared to other "Mighty Mouse" versions. A ratchet mechanism in the coupling nut prevents de-mating under severe vibration. EMI performance is improved with a serpentine ground spring on the plug barrel. This nickel plated beryllium copper spring assures low shell-to-shell resistance. The Series 805, although larger than other Series 80 versions, saves size and weight compared to MIL-DTL-38999 connectors with no compromise in performance.

SPECIFICATIONS	
Current Rating	#23 5 AMPS, #20HD 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	65 dB minimum from 1GHz to 10GHz.
Magnetic Permeability	2.0 µ maximum
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
Seal, O-rings, Grommet	Fluorosilicone rubber
Spring	Nickel-plated beryllium copper
See Series 80 General Information for complete material and finish specs.	

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

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Series 805 Mighty Mouse Triple-Start
Connector Weight and Size Comparison, Key Positions

SIZE COMPARISON: SERIES 805 VERSUS D38999 SERIES III

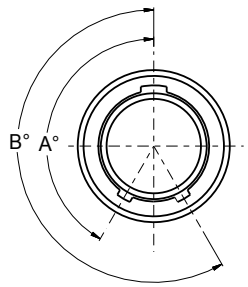
Layout	Number of Contacts	D38999 Layout	Number of Contacts	Maximum Plug Diameter					Maximum Jam Nut Receptacle Diameter				
				Series 805		D38999		% Reduction	Series 805		D38999		% Reduction
				In.	mm.	In.	mm.		In.	mm.	In.	mm.	
8-7	7 #23	9-35	6 #20	.707	17.96	.859	21.81	17%	.775	19.69	1.201	30.51	35%
10-13	13 #23	11-35	13 #22D	.804	20.42	.969	24.61	18%	.895	22.73	1.386	30.50	35%
11-19	19 #23	13-35	19 #22D	.933	23.70	1.141	28.98	20%	.960	24.38	1.512	38.40	36%
12-26	26 #23	17-26	26 #20	.999	25.37	1.391	35.33	29%	1.075	27.31	1.764	44.81	39%
15-37	37 #23	15-35	37 #22D	1.113	28.27	1.266	32.16	13%	1.218	30.86	1.638	41.61	26%
18-55	55 #23	17-35	55 #22D	1.308	33.22	1.391	35.33	7%	1.404	35.66	1.764	44.81	20%
19-85	85 #23	21-35	85 #22D	1.328	33.73	1.625	41.27	19%	1.465	37.21	2.075	52.71	29%
23-130	130 #23	25-35	128 #22D	1.577	40.06	1.875	47.63	16%	1.720	43.69	2.323	59.00	26%

SIZE COMPARISON: SERIES 805 VERSUS D38999 SERIES III

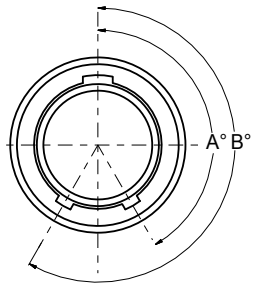
Layout	Number of Contacts	D38999 Layout	Number of Contacts	Weight in Grams				
				Series 805	D38999 Aluminum	% Reduction	D38999 Composite	% Reduction
8-7	7 #23	9-35	6 #20	13.4	26.3	49%	19.9	33%
10-13	13 #23	11-35	13 #22D	23.0	35.7	36%	26.8	14%
11-19	19 #23	13-35	19 #22D	26.4	50.7	48%	38.5	31%
12-26	26 #23	17-26	26 #20	29.4	58.5	50%	62.6	53%
15-37	37 #23	15-35	37 #22D	42.7	72.1	41%	57.4	26%
18-55	55 #23	17-35	55 #22D	59.6	81.6	27%	65.6	9%
19-85	85 #23	21-35	85 #22D	59.8	119.7	50%	99.1	40%
23-130	130 #23	25-35	128 #22D	85.5	159.3	46%	136.6	37%

Weights are for mated pairs of plugs with pins and jam nut receptacles with sockets.

SERIES 805 KEY POSITIONS



PLUG



RECEPTACLE

Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

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Series 805 Mighty Mouse Triple-Start
Connector Weights

SERIES 805 CONNECTOR WEIGHT IN GRAMS

Contact Arr.	Cable Plug	J/N Recep Crimp	J/N Recep PCB	Sq. Flange Recep Crimp	Sq. Flange Recep PCB
8-1P	7.5	5.8	5.7	5.8	4.6
8-1S	7.9	6.3	6.2	6.3	5.1
8-4P	8.3	6.6	6.5	6.6	5.4
8-4S	8.8	7.2	7.0	7.2	5.9
8-7P	7.3	5.6	5.5	5.6	4.4
8-7S	7.7	6.1	5.9	6.1	4.8
9-1P	10.9	9.0	9.0	6.8	7.7
9-1S	11.4	9.6	9.6	7.4	8.3
9-10P	10.7	8.8	8.8	6.6	7.5
9-10S	11.6	9.7	9.7	7.5	8.4
10-2P	13.3	10.2	10.3	8.9	9.4
10-2S	14.1	11.0	11.1	9.7	10.1
10-13P	12.7	9.6	9.7	8.3	8.7
10-13S	13.4	10.3	10.5	9.0	9.5
10-200P	13.9	10.8	10.9	9.5	9.9
10-200S	14.7	11.7	11.8	10.3	10.8
11-4P	15.4	12.1	13.1	10.3	11.3
11-4S	16.4	13.1	14.1	11.3	12.3
11-19P	14.3	11.0	12.0	9.2	10.2
11-19S	15.4	12.1	13.1	10.3	11.3
11-200P	14.9	11.6	12.5	9.8	10.8
11-200S	16.0	12.7	13.6	10.9	11.9
11-201P	15.4	12.1	13.1	10.3	11.3
11-201S	16.6	13.3	14.3	11.6	12.5
12-5P	17.6	13.9	16.3	12.2	13.1
12-5S	19.0	15.3	17.7	13.6	14.5
12-26P	15.8	12.1	14.5	10.5	11.3
12-26S	17.4	13.6	16.1	12.0	12.9
12-200P	16.5	12.8	15.2	11.1	12.0
12-200S	17.9	14.2	16.6	12.5	13.4
12-201P	16.6	12.9	15.3	11.2	12.1
12-201S	18.0	14.3	16.7	12.7	13.5

Contact Arr.	Cable Plug	J/N Recep Crimp	J/N Recep PCB	Sq. Flange Recep Crimp	Sq. Flange Recep PCB
12-202P	16.6	12.9	15.3	11.2	12.1
12-202S	18.2	14.4	16.8	12.8	13.6
15-2P	20.7	20.2	21.8	17.1	19.5
15-2S	22.3	21.9	23.4	18.7	21.1
15-3P	21.7	21.2	22.8	18.0	20.5
15-3S	23.4	23.0	24.5	19.8	22.2
15-7P	21.9	21.5	23.0	18.3	20.7
15-7S	24.5	24.1	25.6	20.9	23.3
15-37P	20.1	19.7	21.2	16.5	18.9
15-37S	23.0	22.6	24.1	19.4	21.8
15-200P	20.4	19.9	21.5	16.7	19.1
15-200S	22.6	22.1	23.7	18.9	21.3
15-201P	20.7	20.2	21.8	17.1	19.5
15-201S	23.0	22.6	24.1	19.4	21.8
18-5P	29.9	31.6	30.1	26.1	29.0
18-5S	32.9	34.5	33.1	29.0	32.0
18-12P	30.7	32.3	30.9	26.8	29.8
18-12S	34.3	36.0	34.5	30.5	33.4
18-55P	27.3	28.9	27.5	23.4	26.4
18-55S	30.7	32.3	30.9	26.8	29.8
19-7P	27.9	30.0	33.1	25.1	33.0
19-7S	31.0	33.1	36.2	28.2	36.1
19-14P	32.9	35.0	38.1	30.0	38.0
19-14S	32.6	34.7	37.7	29.7	37.6
19-85P	26.6	28.7	31.8	23.8	31.7
19-85S	31.1	33.2	36.3	28.3	36.2
23-12P	40.2	42.9	44.4	36.7	43.9
23-12S	45.2	48.0	49.5	41.8	49.0
23-22P	42.7	45.4	47.0	39.3	46.4
23-22S	49.6	52.4	53.9	46.2	53.4
23-130P	37.8	40.6	42.1	34.4	41.6
23-130S	44.9	47.7	49.3	41.6	48.7

Maximum connector weight in grams.

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

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Series 805 Mighty Mouse Triple-Start Plug Connector Ordering Information

805-001 and 805-002

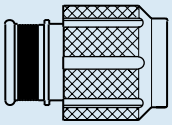
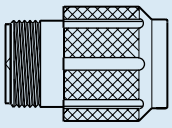
Two Shell Styles: Integral platform for direct shield attachment using BAND-IT® termination system, or accessory thread for attaching a strain relief.

EMI Ground Spring provides low shell-to-shell resistance. This nickel-plated beryllium copper spring enables the Series 805 to meet greater than 60 dB shielding effectiveness from 100 MHz to 15 GHz.

Ratchet Mechanism for Secure Coupling: Series 805 connectors feature a spring mechanism in the coupling nut that locks into radial teeth on the plug barrel. This feature allows the Series 805 to stay mated even when under high vibration, without the need for safety wire or torque tools.

HOW TO ORDER

Sample Part Number

805-002	-16	M	8-4	P	A
Series	**Shell Style**	**Shell Material / Finish**	**Shell Size- Insert Arrangement**	**Contact Type**	**Shell Key Position**
 **805-001** Plug with Banding Platform  **805-002** Plug with Accessory Thread	**-16** Plug Connector with Ratcheting Anti-Decoupling Mechanism	**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 H-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.	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D

H

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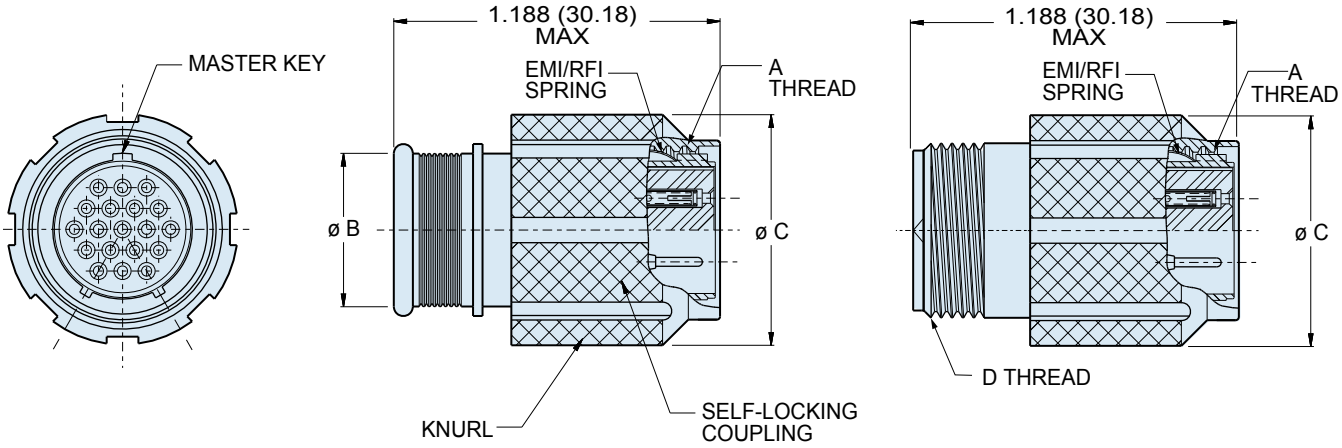
Series 805 Mighty Mouse Triple-Start Plug Connector Dimensions

805-001-16 and 805-002-16



PLUG WITH INTEGRAL BAND PLATFORM 805-001

PLUG WITH ACCESSORY THREAD 805-002

DIMENSIONS

Shell Size	A Threads	Ø B		Ø C		D Threads Accessory
		In.	mm.	In.	mm.	
8	.5000-.1P-.3L-TS-2B	.317	8.05	.691	17.55	.3750-32 UNEF-2A
9	.5625-.1P-.3L-TS-2B	.397	10.08	.787	19.99	.4375-28 UNEF-2A
10	.6250-.1P-.3L-TS-2B	.473	12.01	.826	20.98	.5000-28 UNEF-2A
11	.6875-.1P-.3L-TS-2B	.519	13.18	.916	23.27	.5625-24 UNEF-2A
12	.7500-.1P-.3L-TS-2B	.585	14.86	.982	24.94	.6250-24 UNEF-2A
15	.9375-.1P-.3L-TS-2B	.687	17.45	1.097	27.86	.7500-20 UNEF-2A
18	1.1250-.1P-.3L-TS-2B	.884	22.45	1.290	32.77	.9375-20 UNEF-2A
19	1.1875-.1P-.3L-TS-2B	.884	22.45	1.310	33.27	.9375-20 UNEF-2A
23	1.4375-.1P-.3L-TS-2B	1.135	28.83	1.562	39.67	1.1875-18 UNEF-2A

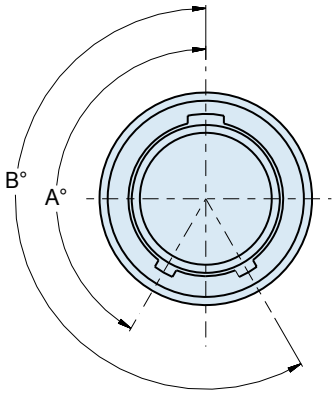
PERFORMANCE SPECIFICATIONS

DWV	#23 500 VAC Sea level, #20HD 750 VAC, #12 AND #16 1800 VAC
Insulation Resistance	5000 Megohms Minimum
Operating Temperature	-55° C. to +150° C.
Immersion, Mated	MIL-STD-810 Method 512. One Meter for One Hour.
EMI	65 dB Minimum from 1 GHz. to 10 GHz.

MATERIALS AND FINISHES

Connector Shell	Aluminum or Stainless Steel
Insulator	Liquid Crystal Polymer (LCP)
Seals	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating, with SST Hood
Contact Retainer Clip	Beryllium Copper, Unplated

SERIES 805 KEY POSITIONS



Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324

Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start Crimp Receptacle Ordering Information

805-003 and 805-004

Series 805 Triple-Start Jam Nut Connector

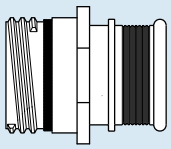
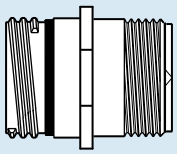
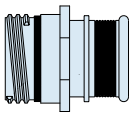
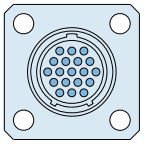
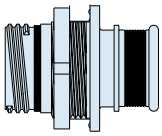
Three Shell Mounting Options
Jam nut with O-ring for rear panel mounting, square flange for front or rear panel mounting, or in-line receptacles for free-hanging cables.

Gold-Plated Crimp Contacts are held in place with beryllium copper retention clips. Contacts are removable.

Two Shell Styles: Choose ***integral band platform*** for direct attachment of a cable shield. Install a boot, or overmold a boot over the band platform. An ***accessory thread*** is available for attaching strain reliefs and backshells.

HOW TO ORDER

Sample Part Number

805-004	-02	NF	9-10	P	A
Series	**Shell Style**	**Shell Material / Finish**	**Shell Size- Insert Arrangement**	**Contact Type**	**Shell Key Position**
 **805-003** Receptacle with Banding Platform  **805-004** Receptacle with Accessory Thread	 **-01** In-Line  **-02** Square Flange  **-07** Jam Nut for Rear Panel Mounting	**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 H-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.	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D

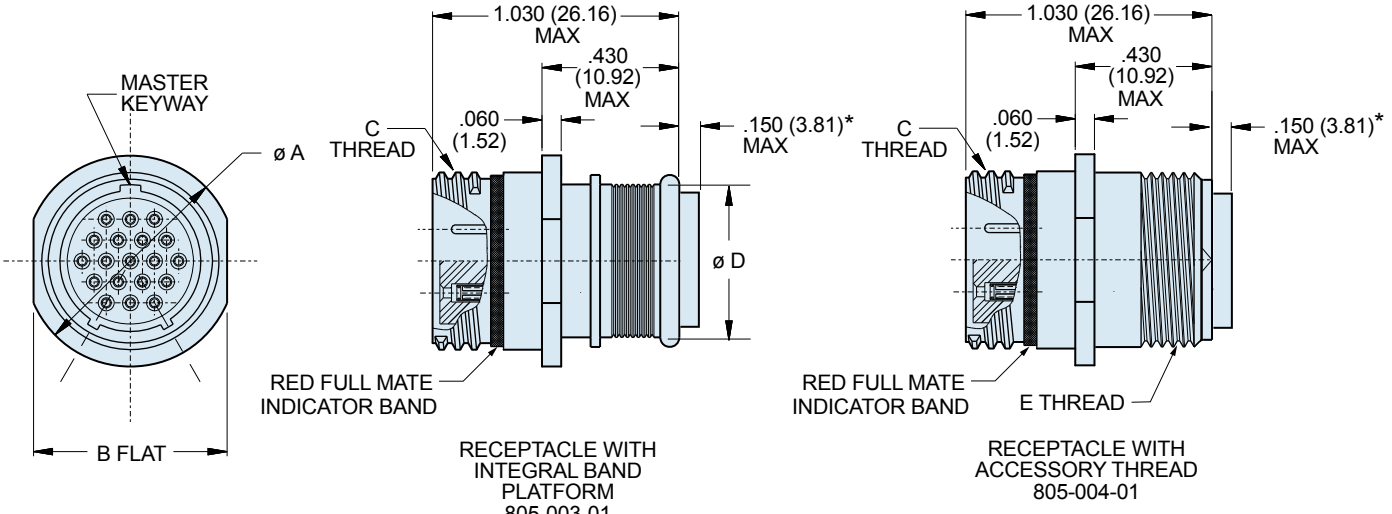
Dimensions in inches (millimeters) and are subject to change without notice.

CAGE Code 06324
Printed in U.S.A.

GLENAIR, INC. • 1211 AIR WAY • GLENDALE, CA 91201-2497 • 818-247-6000 • FAX 818-500-9912
www.glenair.com
E-Mail: sales@glenair.com

Series 805 Mighty Mouse Triple-Start In-Line Receptacle Dimensions

805-003-01 and 805-004-01



*Grommet protrudes for power/combo arrangements

DIMENSIONS

Shell Size	Ø A		B		C Threads	Ø D		E Threads Accessory
	In.	mm.	In.	mm.		In.	mm.	
8	.540	13.72	.510	12.95	.5000-.1P-.3L-TS-2A	.316	8.05	.3750-32 UNEF-2A
9	.605	15.37	.575	14.61	.5625-.1P-.3L-TS-2A	.397	10.08	.4375-28 UNEF-2A
10	.668	16.96	.638	16.21	.6250-.1P-.3L-TS-2A	.472	12.01	.5000-28 UNEF-2A
11	.730	18.54	.700	17.78	.6875-.1P-.3L-TS-2A	.519	13.18	.5625-24 UNEF-2A
12	.793	20.14	.763	19.38	.7500-.1P-.3L-TS-2A	.585	14.86	.6250-24 UNEF-2A
15	.980	24.89	.950	24.13	.9375-.1P-.3L-TS-2A	.687	17.45	.7500-20 UNEF-2A
18	1.165	29.59	1.135	28.83	1.1250-.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
19	1.235	31.37	1.205	30.61	1.1875-.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
23	1.485	37.72	1.455	36.96	1.4375-.1P-.3L-TS-2A	1.134	28.80	1.1875-18 UNEF-2A

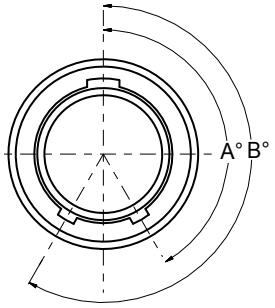
PERFORMANCE SPECIFICATIONS

DWV	#23 500 VAC Sea level, #20HD 750 VAC, #12 AND #16 1800 VAC
Insulation Resistance	5000 Megohms Minimum
Operating Temperature	-55° C. to +150° C.
Immersion, Mated	MIL-STD-810 Method 512. One Meter for One Hour.
EMI	65 dB Minimum from 1 GHz. to 10 GHz.

MATERIALS AND FINISHES

Connector Shell	Aluminum or Stainless Steel
Insulator	Liquid Crystal Polymer (LCP)
Seals	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating, with SST Hood
Contact Retainer Clip	Beryllium Copper, Unplated

SERIES 805 KEY POSITIONS



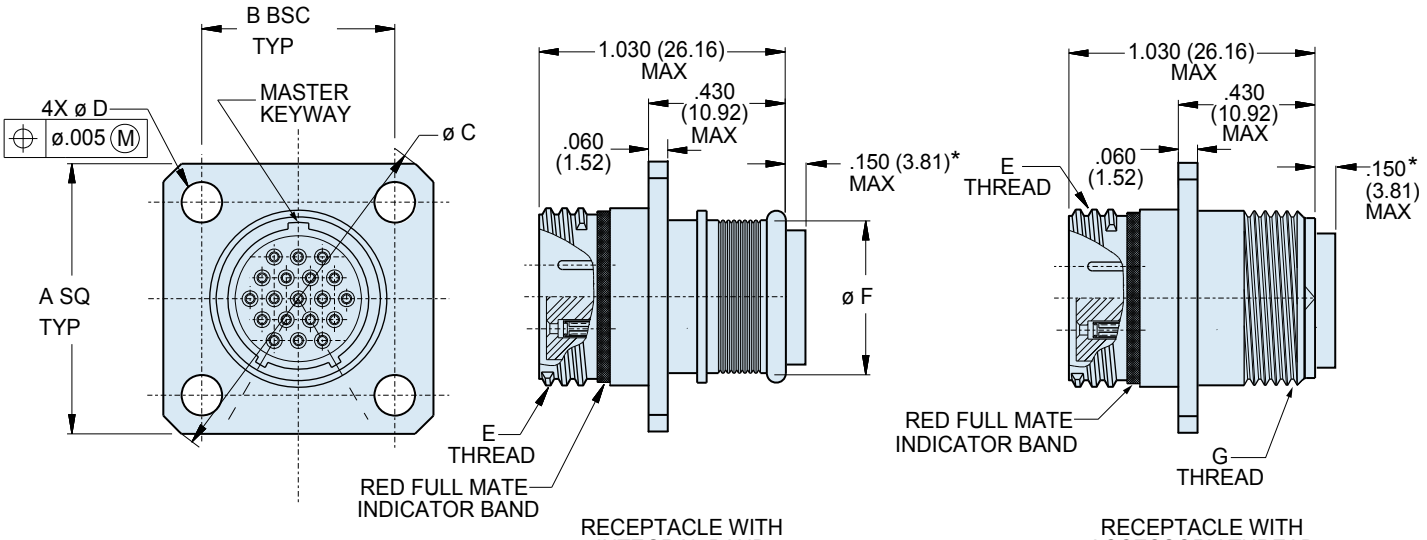
Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start Square Flange Receptacle Dimensions

805-003-02 and 805-004-02



DIMENSIONS

Shell Size	A		B		ØC		ØD		E Threads	Ø F		G Threads Accessory
	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± .08		In.	mm.	
8	.850	21.59	.660	16.76	1.150	29.21	.094	2.39	.5000-.1P-.3L-TS-2A	.316	8.05	.3750-32 UNEF-2A
9	.913	23.19	.723	18.36	1.230	31.24	.094	2.39	.5625-.1P-.3L-TS-2A	.397	10.08	.4375-28 UNEF-2A
10	.975	24.77	.785	19.94	1.330	33.78	.094	2.39	.6250-.1P-.3L-TS-2A	.472	12.01	.5000-28 UNEF-2A
11	1.039	26.39	.848	21.54	1.410	35.81	.094	2.39	.6875-.1P-.3L-TS-2A	.519	13.18	.5625-24 UNEF-2A
12	1.099	27.91	.909	23.09	1.500	38.10	.094	2.39	.7500-.1P-.3L-TS-2A	.585	14.86	.6250-24 UNEF-2A
15	1.288	32.74	1.058	26.87	1.750	44.45	.128	3.25	.9375-.1P-.3L-TS-2A	.687	17.45	.7500-20 UNEF-2A
18	1.475	37.47	1.255	31.88	2.000	50.80	.128	3.25	1.1250-.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
19	1.537	71.06	1.327	33.71	2.094	53.19	.128	3.25	1.1875-.1P-.3L-TS-2A	.884	22.45	.9375-20 UNEF-2A
23	1.787	45.39	1.570	39.88	2.440	61.98	.128	3.25	1.4375-.1P-.3L-TS-2A	1.134	28.80	1.1875-18 UNEF-2A

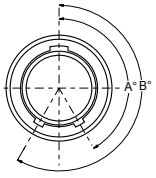
PERFORMANCE SPECIFICATIONS

DWV	#23 500 VAC Sea level, #20HD 750 VAC, #12 AND #16 1800 VAC
Insulation Resistance	5000 Megohms Minimum
Operating Temperature	-55° C. to +150° C.
Immersion, Mated	MIL-STD-810 Method 512. One Meter for One Hour.
EMI	65 dB Minimum from 1 GHz. to 10 GHz.

MATERIALS AND FINISHES

Connector Shell	Aluminum or Stainless Steel
Insulator	Liquid Crystal Polymer (LCP)
Seals	Fluorosilicone Rubber, Blue
Contact	Copper Alloy, Gold over Nickel Plating
Contact Retainer Clip	Beryllium Copper, Unplated

SERIES 805 KEY POSITIONS



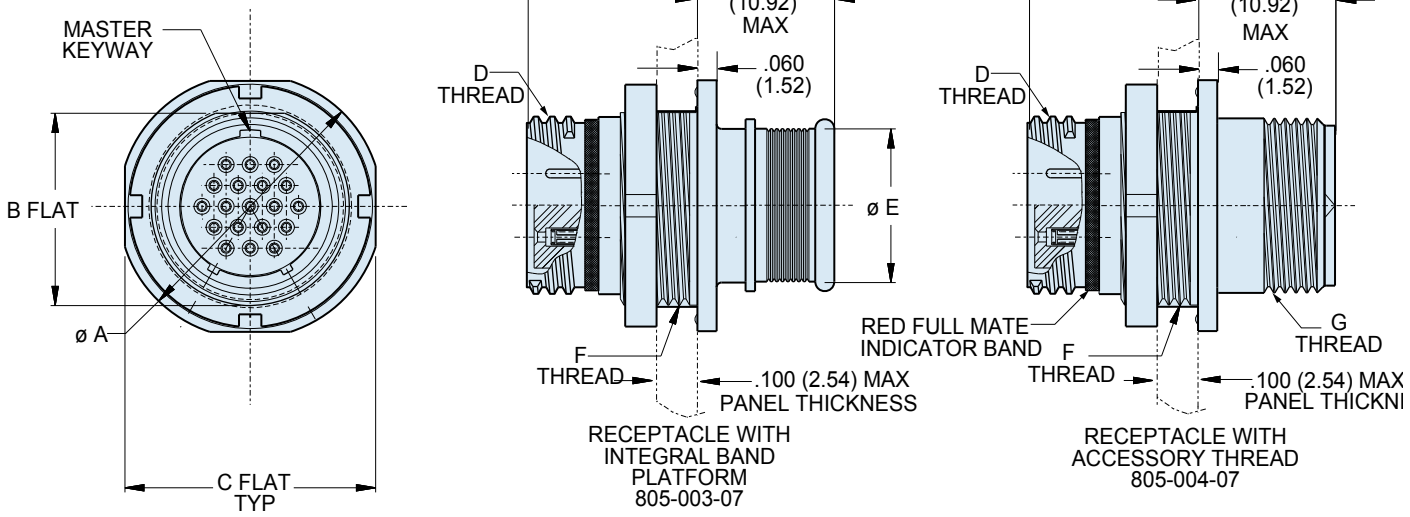
Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start Jam Nut Receptacle Dimensions

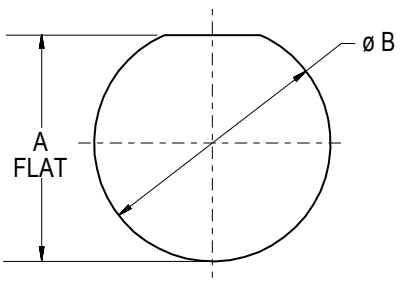
805-003-07 and 805-004-07



DIMENSIONS

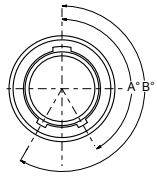
Shell Size	Ø A		B		C		D Threads	Ø E		F Threads	G Threads Accessory
	In.	mm.	In.	mm.	In.	mm.		In.	mm.		
8	.760	19.30	.535	13.59	.730	18.54	.5000-.1P-.3L-TS-2A	.317	8.05	.5625-28 UNEF-2A	.3750-32 UNEF-2A
9	.880	22.35	.661	16.79	.850	21.59	.5625-.1P-.3L-TS-2A	.397	10.08	.6875-28 UN-2A	.4375-28 UNEF-2A
10	.880	22.35	.661	16.79	.850	21.59	.6250-.1P-.3L-TS-2A	.473	12.01	.6875-28 UN-2A	.5000-28 UNEF-2A
11	.955	24.26	.721	18.31	.925	23.50	.6875-.1P-.3L-TS-2A	.519	13.18	.7500-28 UN-2A	.5625-24 UNEF-2A
12	1.060	26.92	.784	19.91	1.035	26.29	.7500-.1P-.3L-TS-2A	.585	14.86	.8125-28 UN-2A	.6250-24 UNEF-2A
15	1.203	30.56	.970	24.64	1.173	29.79	.9375-.1P-.3L-TS-2A	.687	17.45	1.0000-28 UN-2A	.7500-20 UNEF-2A
18	1.389	35.28	1.147	29.13	1.359	34.52	1.1250-.1P-.3L-TS-2A	.884	22.45	1.1875-28 UN-2A	.9375-20 UNEF-2A
19	1.450	36.83	1.221	31.01	1.420	36.07	1.1875-.1P-.3L-TS-2A	.884	22.45	1.2500-28 UN-2A	.9375-20 UNEF-2A
23	1.705	43.31	1.470	37.34	1.675	42.55	1.4375-.1P-.3L-TS-2A	1.134	28.80	1.500-25 UN-2A	1.1875-18 UNEF-2A

PANEL CUTOUT FOR JAM NUT RECEPTACLE



Shell Size	A Flat		Ø B	
	In. ± .002	mm. ± 0.05	In. ± .005	mm. ± 0.13
8	.543	13.79	.572	14.53
9	.669	16.99	.698	17.73
10	.669	16.99	.698	17.73
11	.729	18.51	.760	19.30
12	.792	20.17	.822	20.88
15	.978	24.84	1.010	25.65
18	1.155	29.34	1.198	30.43
19	1.231	31.27	1.260	32.00
23	1.480	37.59	1.510	38.35

SERIES 805 KEY POSITIONS



Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start PCB or Solder Cup Receptacle Ordering Information

805-005 and 805-017

Series 805 Jam Nut PCB Receptacle Connector

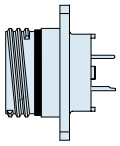
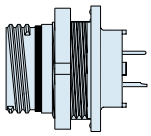
Printed Circuit Board/ Solder Cup Receptacles feature low profile shells for minimum protrusion inside enclosures and integral standoffs for board washout. Contacts are non-removable.

Water Immersion, Unmated

Specify ***805-005*** connectors for applications where open face water immersion is not a requirement. For MIL-STD-810 Method 512G immersion requirements, specify ***805-017*** watertight connectors . These 805-017 connectors are specially sealed ("MOD-518") and are 100% tested to maintain a helium leak rate of 1 x 10^{-4} cc/second at one atmosphere pressure differential from -40C to +70C.

HOW TO ORDER

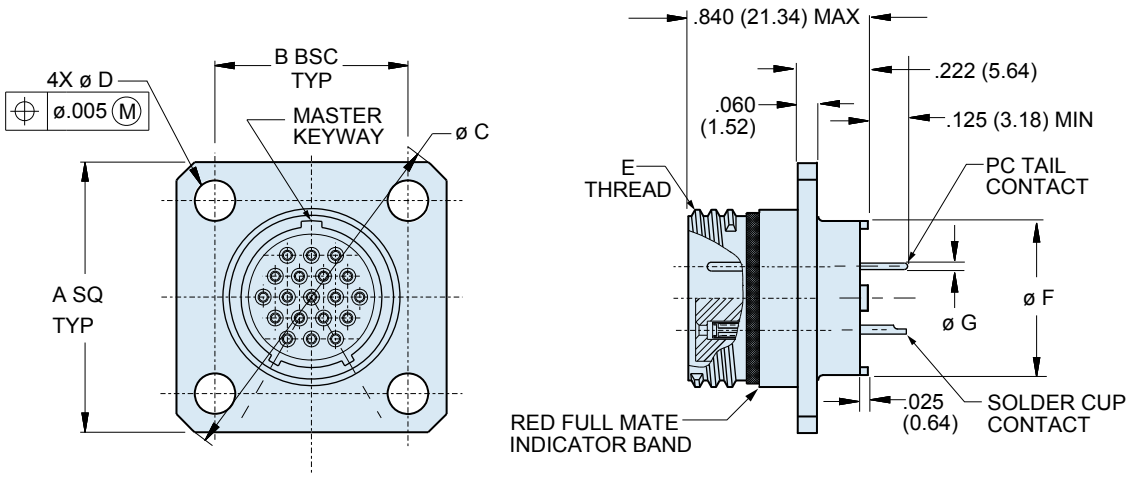
Sample Part Number

805-005	-07	M	10-13	P	B
Series	**Shell Style**	**Shell Material / Finish**	**Shell Size- Insert Arrangement**	**Contact Type**	**Shell Key Position**
805-005 Receptacle for Solder Cup or PCB Termination, with Standard Epoxy Potting **805-017** Receptacle for Solder Cup or PCB Termination, With Special "MOD-518" Sealing For Open Face (unmated) Water Immersion Requirements. 100% Leak Tested.	 **-02** Square Flange  **-07** Jam Nut	**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 H-2	**P** Pin, PC Tail **S** Socket, PC Tail **E** Pin, Solder Cup **F** Socket, Solder Cup	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D

H

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

Series 805 Mighty Mouse Triple-Start
PC Tail and Solder Cup Square Flange Receptacle
805-005-02, 805-017-02



SQUARE FLANGE WITH PC TAIL
OR SOLDER CUP CONTACTS
805-005-02
805-017-02

DIMENSIONS

Shell Size	A		B		Ø C		Ø D		E Threads	Ø F		Ø G Tail Dia.
	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± .08		In.	mm.	
8	.850	21.59	.660	16.76	1.150	29.21	.094	2.39	.5000-.1P-.3L-TS-2A	.330	8.38	#23 .018/.022 (0.46/0.56)
9	.913	23.19	.723	18.36	1.230	31.24	.094	2.39	.5625-.1P-.3L-TS-2A	.432	10.97	
10	.975	24.77	.785	19.94	1.330	33.78	.094	2.39	.6250-.1P-.3L-TS-2A	.493	12.52	#20 .024/.028 (0.61/0.71)
11	1.039	26.39	.848	21.54	1.410	35.81	.094	2.39	.6875-.1P-.3L-TS-2A	.551	14.00	
12	1.099	27.91	.909	23.09	1.500	38.10	.094	2.39	.7500-.1P-.3L-TS-2A	.620	15.78	
15	1.288	32.74	1.058	26.87	1.750	44.45	.128	3.25	.9375-.1P-.3L-TS-2A	.703	17.86	#16 .060/.064 (1.52/1.63)
18	1.475	37.47	1.255	31.88	2.000	50.80	.128	3.25	1.1250-.1P-.3L-TS-2A	.863	21.92	
19	1.537	71.06	1.327	33.71	2.094	53.19	.128	3.25	1.1875-.1P-.3L-TS-2A	.912	23.16	#12 .092/.096 (2.34/2.44)
23	1.787	45.39	1.570	39.88	2.440	61.98	.128	3.25	1.4375-.1P-.3L-TS-2A	1.162	29.51	

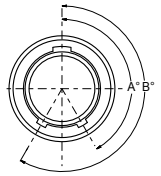
PERFORMANCE SPECIFICATIONS

DWV	#23 500 VAC Sea level, #20HD 750 VAC, #12 AND #16 1800 VAC
Insulation Resistance	5000 Megohms Minimum
Operating Temperature	-55° C. to +150° C.
Immersion, Mated	MIL-STD-810 Method 512. One Meter for One Hour.
EMI	65 dB Minimum from 1 GHz. to 10 GHz.

MATERIALS AND FINISHES

Connector Shell	Aluminum or Stainless Steel
Insulator	Liquid Crystal Polymer (LCP)
Seals	Fluorosilicone Rubber, Blue
Contact	Copper Alloy, Gold over Nickel Plating
Contact Retainer Clip	Beryllium Copper, Unplated

SERIES 805 KEY POSITIONS

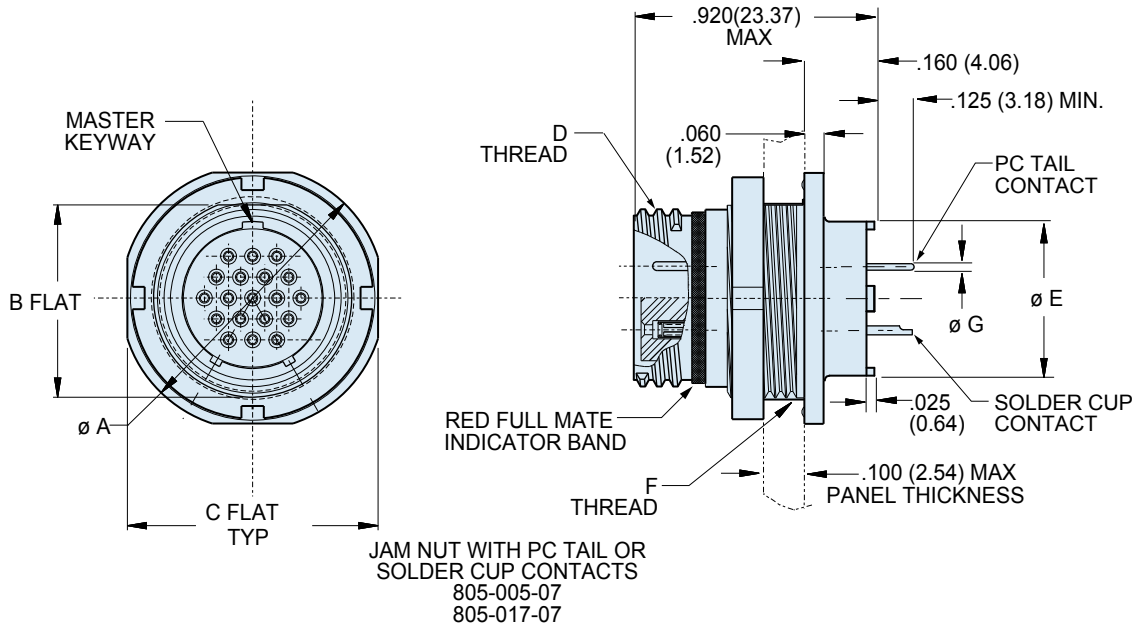


Key Position	Key Rotation A	Key Rotation B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start
PC Tail and Solder Cup Jam Nut Receptacle
805-005-07, 805-017-07

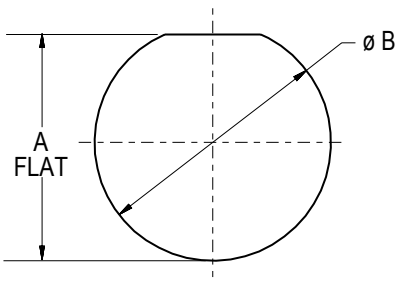


JAM NUT WITH PC TAIL OR SOLDER CUP CONTACTS
805-005-07
805-017-07

DIMENSIONS

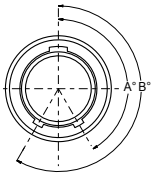
Shell Size	Ø A		B		C		D Threads	Ø E		F Threads	Ø G Tail Dia.
	In.	mm.	In.	mm.	In.	mm.		In.	mm.		
8	.760	19.30	.535	13.59	.730	18.54	.5000-.1P-.3L-TS-2A	.330	8.38	.5625-28 UNEF-2A	#23 .018/.022 (0.46/0.56)
9	.880	22.35	.661	16.79	.850	21.59	.5625-.1P-.3L-TS-2A	.432	10.97	.6875-28 UN-2A	
10	.880	22.35	.661	16.79	.850	21.59	.6250-.1P-.3L-TS-2A	.493	12.52	.6875-28 UN-2A	
11	.955	24.26	.721	18.31	.925	23.50	.6875-.1P-.3L-TS-2A	.551	14.00	.7500-28 UN-2A	#20 .024/.028 (0.61/0.71)
12	1.060	26.92	.784	19.91	1.035	26.29	.7500-.1P-.3L-TS-2A	.620	15.78	.8125-28 UN-2A	
15	1.203	30.56	.970	24.64	1.173	29.79	.9375-.1P-.3L-TS-2A	.703	17.86	1.0000-28 UN-2A	#16 .060/.064 (1.52/1.63)
18	1.389	35.28	1.147	29.13	1.359	34.52	1.1250-.1P-.3L-TS-2A	.863	21.92	1.1875-28 UN-2A	
19	1.450	36.83	1.221	31.01	1.420	36.07	1.1875-.1P-.3L-TS-2A	.912	23.16	1.2500-28 UN-2A	#12 .092/.096 (2.34/2.44)
23	1.705	43.31	1.470	37.34	1.675	42.55	1.4375-.1P-.3L-TS-2A	1.162	29.51	1.500-25 UN-2A	

PANEL CUTOUT FOR JAM NUT RECEPTACLE



Shell Size	A Flat		Ø B	
	In. ± .002	mm. ± 0.05	In. ± .005	mm. ± 0.13
8	.543	13.79	.572	14.53
9	.669	16.99	.698	17.73
10	.669	16.99	.698	17.73
11	.729	18.51	.760	19.30
12	.792	20.17	.822	20.88
15	.978	24.84	1.010	25.65
18	1.155	29.34	1.198	30.43
19	1.229	31.22	1.260	32.00
23	1.480	37.59	1.510	38.35

SERIES 805 KEY POSITIONS



Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start Hermetic Receptacle Ordering Information

805-006

Series 805 Hermetic Jam Nut Connector

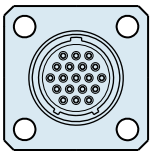
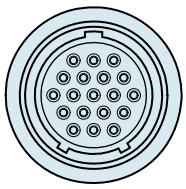
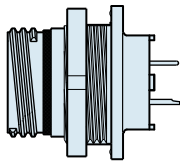
Series 805 Hermetic Receptacles feature 304L stainless steel shells, fused vitreous glass insulators and Alloy 52 iron alloy contacts. Triple-start ACME thread provides fast mating and cross-threading protection. Mating plug connectors feature EMI springs and ratcheting anti-decoupling mechanism for resistance to vibration. 1000 PSI open face pressure. Fluorosilicone seals for water ingress protection. Contacts are gold-plated 50 microinches minimum.

1 X 10^{-7} cc/second maximum helium leak rate.

Solder Cup Contacts or ***PC Tail Contacts*** for attachment to flexible or rigid circuits.

HOW TO ORDER SERIES 805 HERMETIC RECEPTACLES

Sample Part Number

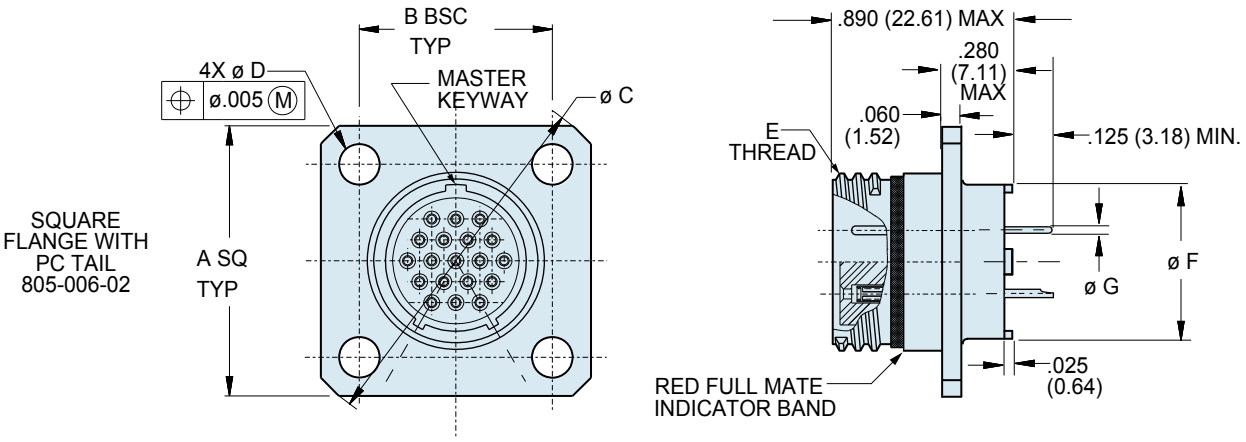
805-006	-07	Z1	12-26	C	A
Series	**Shell Style**	**Shell Material / Finish**	**Shell Size- Insert Arrangement**	**Contact Type**	**Shell Key Position**
805-006 Hermetic Receptacle	 **-02** Square Flange  **-03** Solder Mount  **-07** Jam Nut	**Z1** Stainless Steel / Passivated **ZL** Stainless Steel / Nickel Plated	SEE ***CONTACT ARRANGEMENTS*** PAGE H-2	**P** Pin, Solder Cup **C** Pin, PC Tail **S** Socket, Solder Cup **D** Socket, PC Tail	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start Flange Mount Hermetic Receptacles

805-006-02 Connector Dimensions



DIMENSIONS

Shell Size	A		B		Ø C		Ø D		E Threads	Ø F		Ø G Tail Dia.
	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± .08		In.	mm.	
8	.850	21.59	.660	16.76	1.150	29.21	.094	2.39	.5000-.1P-.3L-TS-2A	.330	8.38	**#23** .018/.022 (0.46/0.56)
9	.913	23.19	.723	18.36	1.230	31.24	.094	2.39	.5625-.1P-.3L-TS-2A	.432	10.97	
10	.975	24.77	.785	19.94	1.330	33.78	.094	2.39	.6250-.1P-.3L-TS-2A	.493	12.52	**#20** .024/.028 (0.61/0.71)
11	1.039	26.39	.848	21.54	1.410	35.81	.094	2.39	.6875-.1P-.3L-TS-2A	.551	14.00	
12	1.099	27.91	.909	23.09	1.500	38.10	.094	2.39	.7500-.1P-.3L-TS-2A	.620	15.78	
15	1.288	32.74	1.058	26.87	1.750	44.45	.128	3.25	.9375-.1P-.3L-TS-2A	.703	17.86	**#16** .060/.064 (1.52/1.63)
18	1.475	37.47	1.255	31.88	2.000	50.80	.128	3.25	1.1250-.1P-.3L-TS-2A	.863	21.92	
19	1.537	71.06	1.327	33.71	2.094	53.19	.128	3.25	1.1875-.1P-.3L-TS-2A	.912	23.16	**#12** .092/.096 (2.34/2.44)
23	1.787	45.39	1.570	39.88	2.440	61.98	.128	3.25	1.4375-.1P-.3L-TS-2A	1.162	29.51	

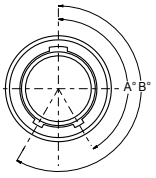
PERFORMANCE SPECIFICATIONS

DWV (VAC Sea Level)	#23 500 V., #20HD 750 V., #12 AND #16 1800 V.
Insulation Resistance	5000 Megohms Minimum
Operating Temperature	-55° C. to +150° C.
Immersion, Mated	MIL-STD-810 Method 512. One Meter for One Hour.
Hermeticity	1 x 10-7 cc/sec Helium Leak Rate @ 1 Atmosphere Diff.

MATERIALS AND FINISHES

Shell	304L Stainless Steel
Insulator	Fused Vitreous Glass
Seals	Fluorosilicone Rubber, Blue
Contacts	Iron Alloy (Alloy 52)

SERIES 805 KEY POSITIONS



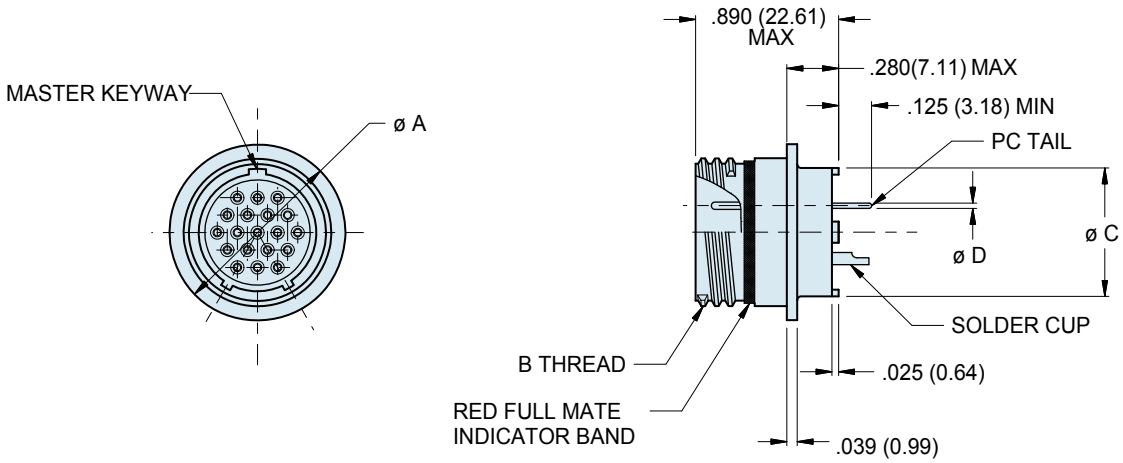
Key Position	Key Rotation A	Key Rotation B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start Solder Mount Hermetic Receptacles

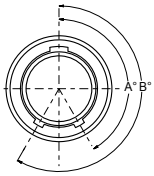
805-006-03 Connector Dimensions



DIMENSIONS

Shell Size	Ø A		B Threads	Ø C		Ø D Tail Dia.
	In.	mm.		In.	mm.	
8	.625	15.88	.5000-.1P-.3L-TS-2A	.330	8.38	#23 .018/.022 (0.46/0.56)
9	.688	17.48	.5625-.1P-.3L-TS-2A	.432	10.97	
10	.750	19.75	.6250-.1P-.3L-TS-2A	.493	12.52	
11	.812	20.62	.6875-.1P-.3L-TS-2A	.551	14.00	#20 .024/.028 (0.61/0.71)
12	.875	22.23	.7500-.1P-.3L-TS-2A	.620	15.78	
15	1.062	26.97	.9375-.1P-.3L-TS-2A	.703	17.86	#16 .060/.064 (1.52/1.63)
18	1.250	31.75	1.1250-.1P-.3L-TS-2A	.863	21.92	
19	1.312	33.32	1.1875-.1P-.3L-TS-2A	.912	23.16	
21	1.438	36.53	1.3125-.1P-.3L-TS-2A	1.017	25.83	#12 .092/.096 (2.34/2.44)
23	1.562	39.67	1.4375-.1P-.3L-TS-2A	1.162	29.51	

SERIES 805 KEY POSITIONS



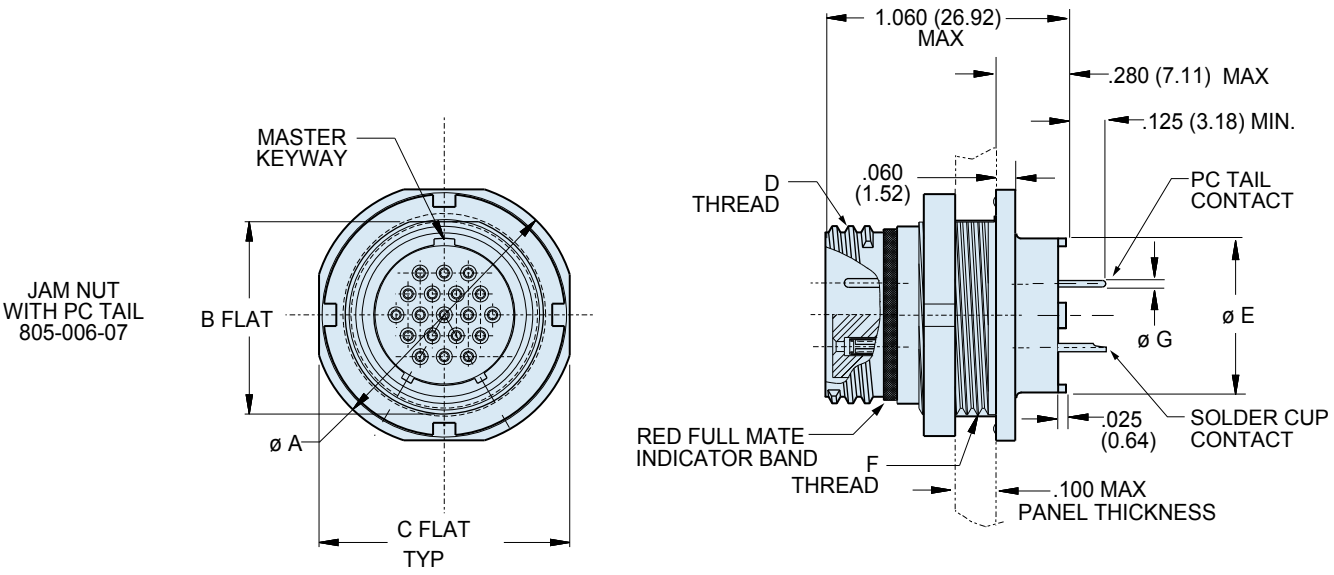
Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start Jam Nut Mount Hermetic Receptacles

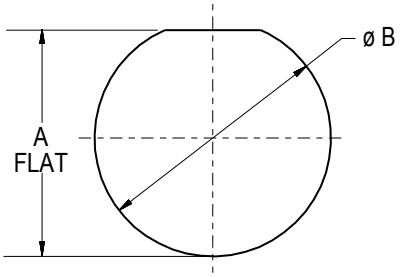
805-006-07 Connector Dimensions



DIMENSIONS

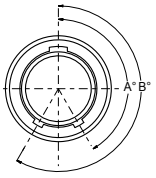
Shell Size	Ø A		B		C		D Threads	Ø E		F Threads	Ø G Tail Dia.
	In.	mm.	In.	mm.	In.	mm.		In.	mm.		
8	.760	19.30	.535	13.59	.730	18.54	.5000-.1P-.3L-TS-2A	.330	8.38	.5625-28 UNEF-2A	#23 .018/.022 (0.46/0.56)
9	.880	22.35	.661	16.79	.850	21.59	.5625-.1P-.3L-TS-2A	.432	10.97	.6875-28 UN-2A	
10	.880	22.35	.661	16.79	.850	21.59	.6250-.1P-.3L-TS-2A	.493	12.52	.6875-28 UN-2A	
11	.955	24.26	.721	18.31	.925	23.50	.6875-.1P-.3L-TS-2A	.551	14.00	.7500-28 UN-2A	#20 .024/.028 (0.61/0.71)
12	1.060	26.92	.784	19.91	1.035	26.29	.7500-.1P-.3L-TS-2A	.620	15.78	.8125-28 UN-2A	
15	1.203	30.56	.970	24.64	1.173	29.79	.9375-.1P-.3L-TS-2A	.703	17.86	1.0000-28 UN-2A	#16 .060/.064 (1.52/1.63)
18	1.389	35.28	1.147	29.13	1.359	34.52	1.1250-.1P-.3L-TS-2A	.863	21.92	1.1875-28 UN-2A	
19	1.450	36.83	1.221	31.01	1.420	36.07	1.1875-.1P-.3L-TS-2A	.912	23.16	1.2500-28 UN-2A	#12 .092/.096 (2.34/2.44)
23	1.705	43.31	1.470	37.34	1.675	42.55	1.4375-.1P-.3L-TS-2A	1.162	29.51	1.500-25 UN-2A	

PANEL CUTOUT FOR JAM NUT RECEPTACLE



Shell Size	A Flat		Ø B	
	In. ± .002	mm. ± 0.05	In. ± .005	mm. ± 0.13
8	.543	13.79	.572	14.53
9	.669	16.99	.698	17.73
10	.669	16.99	.698	17.73
11	.729	18.51	.760	19.30
12	.792	20.17	.822	20.88
15	.978	24.84	1.010	25.65
18	1.155	29.34	1.198	30.43
19	1.229	31.22	1.260	32.00
23	1.480	37.59	1.510	38.35

SERIES 805 KEY POSITIONS



Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse Triple-Start Sav-Con® Connector Saver Ordering Information

805-010

805-010 Sav-Con®

Glenair Sav-Con® Connector Savers are designed to protect connectors that are subject to repeated mating and unmating cycles. Sav-Con® Connector Savers prevent costly repair or replacement of expensive connectors while preserving the quality and integrity of the connector by absorbing connect and disconnect abuse.

Protect Equipment

Equipment connectors that are mated frequently during manufacturing, test, check-out phases and environmental test programs can be protected by Glenair Sav-Con® Connector Savers.

Prolong the Service Life of Test Cables

Glenair Sav-Con® Connector Savers mated to test-cable connectors take the punishment of repetitive matings and unmatings.

HOW TO ORDER SERIES 805 SAV-CON® CONNECTORS

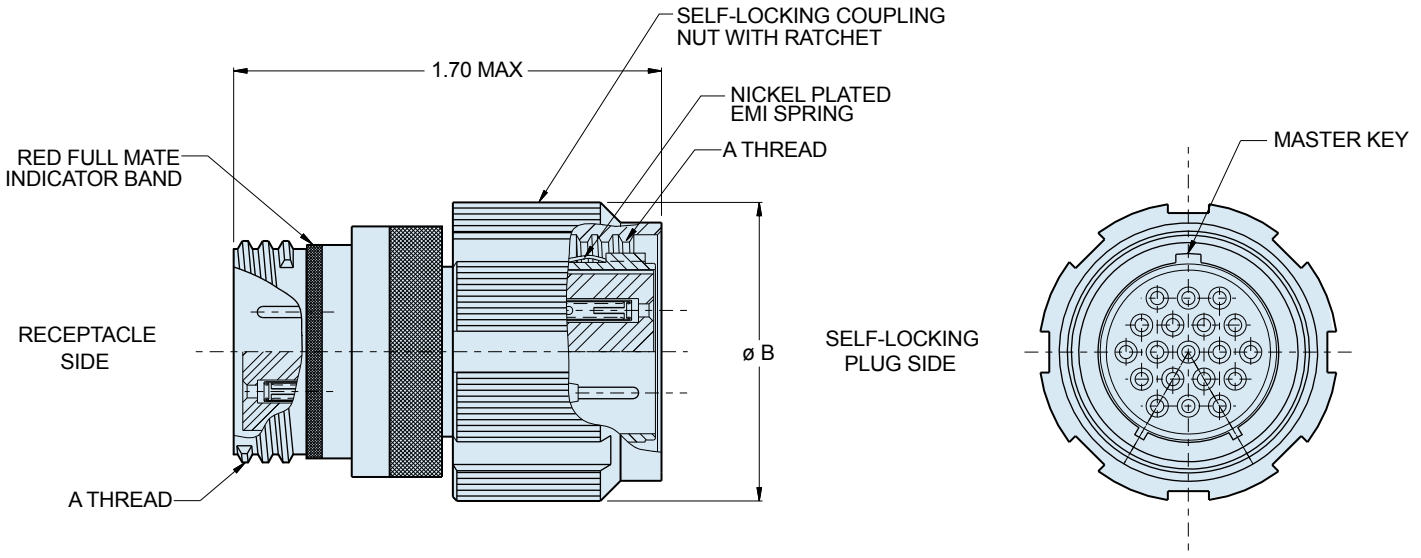
Sample Part Number

805-010	Z1	12-26	P	A
Series	**Shell Material / Finish**	**Shell Size- Insert Arrangement**	**Contact Type**	**Shell Key Position**
805-010 Series 805 Connector Saver	**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 H-2	**P** Pin Contact on Plug Side, Socket Contact on Receptacle Side **S** Socket Contact on Plug Side, Pin Contact on Receptacle Side	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D

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

Series 805 Mighty Mouse Triple-Start Sav-Con® Connector Savers

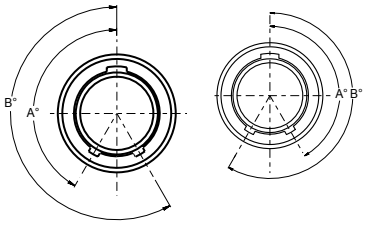
805-010



DIMENSIONS

Shell Size	A Threads	Ø B	
		In.	mm.
8	.5000-.1P-.3L-TS	.691	17.55
9	.5625-.1P-.3L-TS	.787	19.99
10	.6250-.1P-.3L-TS	.826	20.98
11	.6875-.1P-.3L-TS	.916	23.27
12	.7500-.1P-.3L-TS	.982	24.94
15	.9375-.1P-.3L-TS	1.097	27.86
18	1.1250-.1P-.3L-TS	1.290	32.77
19	1.1875-.1P-.3L-TS	1.310	33.27
23	1.4375-.1P-.3L-TS	1.562	39.67

SERIES 805 KEY POSITIONS



PLUG RECEPTACLE

Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #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	65 dB minimum from 1GHz to 10GHz.
Magnetic Permeability	2.0 µ maximum
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)
Seal	Fluorosilicone rubber
Ground Spring	Nickel-plated beryllium copper

See Series 80 General Information for complete material and finish specs.

H

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

CAGE Code 06324
Printed in U.S.A.

Abrasion-Resistant Polyurethane Jacket provides cold temperature flexibility and high strength. Low smoke/zero halogen material meets requirements for low toxicity.

90% Tinned Copper Braid is terminated directly to connector with stainless steel ***BAND-IT***® strap.

Watertight Overmold provides strain relief and protection.

Series 805 Harsh Environment Shielded Cordsets

These overmolded cordsets withstand abrasion and chemical exposure. Low smoke zero halogen jacket reduces the amount of toxic and corrosive gasses emitted during combustion. Cable construction features silver coated stranded conductors with TFE insulation, tinned copper braid shield and extruded polyurethane jacket. Choose single-ended pigtails or double-ended "back-to-back" versions. Braid shield is attached directly to connector with ***BAND-IT***® straps. Semi-rigid polyamide overmold provides strain relief and environmental sealing.

Series 801 cordsets are now available with size #20HD, #16 and #12 contacts. Ordering information is found on the following pages.

HARSH ENVIRONMENT CORDSET SPECIFICATIONS	
Cable Jacket Material	Thermoplastic Polyurethane, Black, Low-Smoke, Zero-Halogen
Cable Shield	Tin-Coated Copper Braid, 90% Minimum Coverage
Conductors	Silver Coated Stranded Wire, TFE Insulated, Per M22759/11
BAND-IT® Shield Termination Band	Stainless Steel
Current Rating	#23 5 Amps, #20HD 7.5 Amps, #16 13 Amps, #12 23 Amps
Test Voltage (Dielectric Withstanding Voltage)	#23 500 VAC, #20HD 750 VAC, #16 and #12 1800 VAC Sea Level
Insulation Resistance	200 megohms minimum
Operating Temperature	-30° C. to +105° C.
Solvent Resistance, Polyamide Overmold	Excellent Resistance to Most Solvents, Fuels, and Oils; Poor Resistance to Strong Acids and Bipolar Solvents (Alcohol)
Shielding Effectiveness	50 dB minimum from 100MHz to 1000MHz.
Cable jacket Flammability and Toxicity	Toxicity Index 3.9 per NES 713 Oxygen Index 28% per ASTM D-2863 Smoke Index 24 per NES 711

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

Glenair®

Series 805 Mighty Mouse Triple-Start Overmolded Cordset Ordering Information

805-009 and 805-018

HOW TO ORDER 805-009 CORDSETS WITH #23 CONTACTS

Sample Part Number

805-009	-B	A	2	M	8-4	P	A	-36
Series	**End A Connector**	**End B Connector**	**Wire Size**	**Shell Material / Finish**	**Insert Arr.**	**Protective Cover**	**Shell Key Pos.**	**Length**
805-009 Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Jacket, with Size #23 Contacts	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Receptacle, with Male Pin Contacts **-D** Receptacle, with Female Socket Contacts	**A** Plug, with Male Pin Contacts **B** Plug, with Female Socket Contacts **C** Receptacle, with Male Pin Contacts **D** Receptacle, with Female Socket Contacts **N** No Connector (Single-Ended)	**2** #22 AWG **4** #24 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with Olive Drab Chromate **ZNU** Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	**8-4** **8-6** **8-7** **9-10** **10-13** **11-19** **12-26** **15-37** **18-55** **19-85**	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D	Overall Length In Inches 12 Inch Min.

11-210HOW TO ORDER 805-018 CORDSETS WITH #20HD CONTACTS

Sample Part Number

805-018	-A	N	0	ZNU	11-210	N	B	-72
Series	**End A Connector**	**End B Connector**	**Wire Size**	**Shell Material / Finish**	**Insert Arr.**	**Protective Cover**	**Shell Key Pos.**	**Length**
805-018 Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Jacket, with Size #20HD Contacts	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Receptacle, with Male Pin Contacts **-D** Receptacle, with Female Socket Contacts	**A** Plug, with Male Pin Contacts **B** Plug, with Female Socket Contacts **C** Receptacle, with Male Pin Contacts **D** Receptacle, with Female Socket Contacts **N** No Connector (Single-Ended)	**0** #20 AWG **2** #22 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with Olive Drab Chromate **ZNU** Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	**8-23** **9-25** **10-28** **11-210** **15-220** **18-235** **19-241**	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D	Overall Length In Inches 12 Inch Min.

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

CAGE Code 06324

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Series 805 Mighty Mouse Triple-Start Overmolded Cordset Ordering Information

805-015 and 805-016

HOW TO ORDER 805-015 CORDSETS WITH #16 CONTACTS

Sample Part Number

805-015	-B	A	6	M	19-14	P	A	-36
Series	**End A Connector**	**End B Connector**	**Wire Size**	**Shell Material / Finish**	**Insert Arr.**	**Protective Cover**	**Shell Key Pos.**	**Length**
805-015 Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Jacket, with Size #16 Contacts	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Receptacle, with Male Pin Contacts **-D** Receptacle, with Female Socket Contacts	**A** Plug, with Male Pin Contacts **B** Plug, with Female Socket Contacts **C** Receptacle, with Male Pin Contacts **D** Receptacle, with Female Socket Contacts **N** No Connector (Single-Ended)	**6** #16 AWG **8** #18 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with Olive Drab Chromate **ZNU** Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	**8-1** **10-2** **11-4** **11-19** **12-5** **15-7** **18-12** **19-14**	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D	Overall Length In Inches 12 Inch Min.

HOW TO ORDER 805-016 CORDSETS WITH #12 CONTACTS

Sample Part Number

805-016	-A	N	2	ZNU	12-2	N	B	-72
Series	**End A Connector**	**End B Connector**	**Wire Size**	**Shell Material / Finish**	**Insert Arr.**	**Protective Cover**	**Shell Key Pos.**	**Length**
805-016 Overmolded Cordset, Shielded, with Low Smoke/ Zero Halogen Jacket, with Size #12 Contacts	**-A** Plug, with Male Pin Contacts **-B** Plug, with Female Socket Contacts **-C** Receptacle, with Male Pin Contacts **-D** Receptacle, with Female Socket Contacts	**A** Plug, with Male Pin Contacts **B** Plug, with Female Socket Contacts **C** Receptacle, with Male Pin Contacts **D** Receptacle, with Female Socket Contacts **N** No Connector (Single-Ended)	**2** #12 AWG **4** #14 AWG	**M** Aluminum / Electroless Nickel **NF** Aluminum / Cadmium with Olive Drab Chromate **ZNU** Aluminum / Zinc-Nickel with Black Chromate **MT** Aluminum / Nickel-PTFE **Z1** Stainless Steel / Passivated	**9-1** **12-2** **15-2** **15-3** **18-5** **19-7**	**P** Metal Protective Covers Included **N** No Covers Supplied	**A** Position A (Normal) **B** Position B **C** Position C **D** Position D	Overall Length In Inches 12 Inch Min.

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

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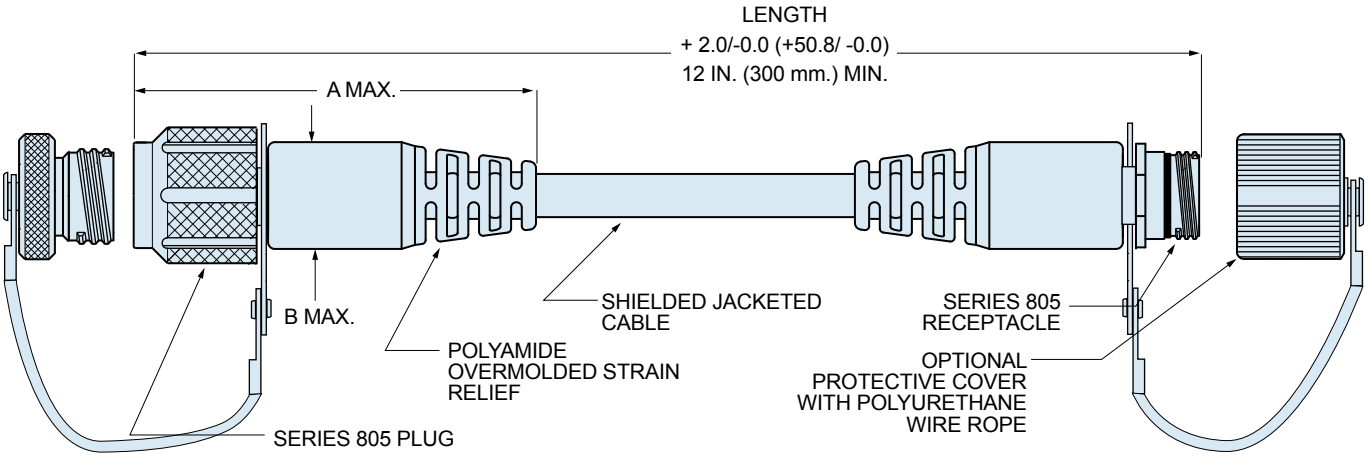
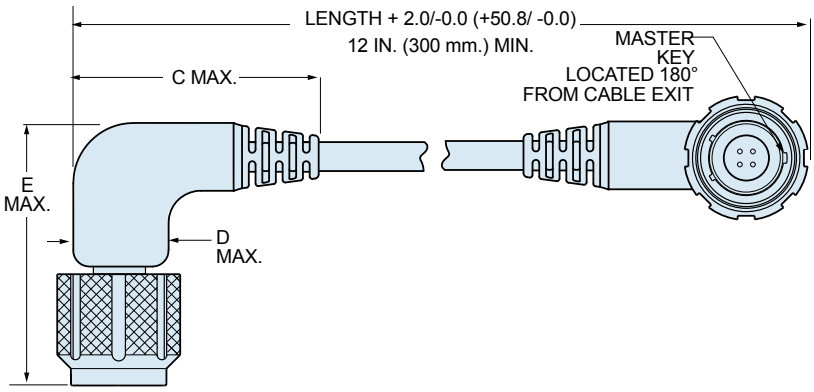
Series 805 Mighty Mouse Triple-Start Threaded Overmolded Corset Dimensions



RIGHT ANGLE CORDSETS



How To Order Right Angle Cordsets

Insert the letter "**R**" after the End A or End B Connector letter designator.

Example

Straight cable	805-009-AC4NF18-55PA-72
Right Angle	805-009-A***R***C***R***4NF18-55PA-72

H

DIMENSIONS

Shell Size	A Max.		B Max.		C Max.		D Max.		E Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
8	2.4	61.0	0.6	15.2	1.5	38.1	0.6	15.2	2.1	53.3
9	2.4	61.0	0.7	17.8	1.5	38.1	0.7	17.8	2.3	58.4
10	2.5	63.5	0.8	19.1	1.6	40.6	0.8	19.1	2.4	61.0
11	2.8	71.1	0.9	21.6	1.9	48.3	0.9	21.6	2.6	66.0
12	2.8	71.1	0.9	21.6	1.9	48.3	0.9	21.6	2.6	66.0
15	3.1	78.7	1.1	28.0	2.2	55.9	1.1	28.0	3.1	78.7
18	3.4	86.4	1.3	33.0	2.5	63.5	1.3	33.0	3.5	88.9
19	3.9	99.1	1.4	35.6	3.0	76.2	1.4	35.6	3.7	94.0

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

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Series 805 Mighty Mouse Triple-Start Protective Cover Ordering Information

667-261 and 667-262

Plug Cover

Receptacle Cover

Protect Connectors From Damage
Machined aluminum or stainless steel protective covers have fluorosilicone gasket for a watertight fit.

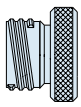
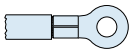
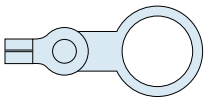
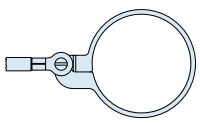
Stainless Steel Fittings and Rings
Choose small diameter eye fittings for panel attachment. Larger rings fit under the jam nut or over cable jackets. Split rings can be installed on fully assembled cables.

Polyurethane-Coated SST Wire Rope
offers high strength, excellent abrasion resistance and good flexibility. Or, choose Teflon® jacket for high temperature exposure.

Braided Nylon Rope provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

HOW TO ORDER

Sample Part Number

667-262	-M	-G	9	04		-6
Series	**Shell Material / Finish**	**Attachment Type**	**Shell Size**	**Attachment Code**		**Attachment Length in Inches**
 **667-261** Protective Cover for use with Series 805 Plugs  **667-262** Protective Cover for use with Series 805 Receptacles	**-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	**-G** Nylon Rope **-H** SST Wire Rope, Teflon® Jacket **-N** No Attachment **-S** SST Sash Chain **-SK** Nylon Rope With Slip Knot **-T** SST Wire Rope, No Jacket **-U** SST Wire Rope, Polyurethane Jacket "SST" = Stainless Steel	**8** **9** **10** **11** **12** **15** **18** **19** **23**	Omit for attachment Types **N** (No Attachment) and **SK** (Slip Knot)		Omit for attachment Type **N** (No Attachment) **Example** "-6" equals six inch length
				 Small Ring	**01** – .126 (3.20) I.D. **02** – .145 (3.68) I.D. **04** – .188 (4.78) I.D. **06** – .197 (5.00) I.D.	
				 Large Ring	**14** – .385 (9.78) I.D. **16** – .570 (14.48) I.D. **17** – .635 (16.13) I.D. **18** – .695 (17.65) I.D. **24** – .766 (19.46) I.D. **19** – .885 (22.48) I.D. **20** – 1.070 (27.17) I.D. **22** – 1.210 (30.73) I.D. **23** – 1.275 (32.39) I.D. **25** – 1.530 (38.86) I.D.	
				 Split Ring	**50** – .420 (10.67) I.D. **52** – .480 (12.19) I.D. **54** – .635 (16.13) I.D. **56** – .745 (18.92) I.D. **58** – .885 (22.48) I.D. **60** – 1.010 (25.65) I.D. **64** – 1.125 (28.58) I.D. **68** – 1.345 (34.16) I.D.	

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

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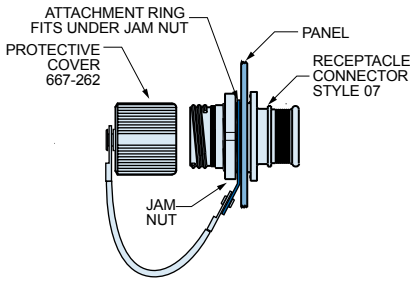
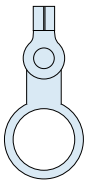
Series 805 Mighty Mouse Triple-Start Protective Cover Dimensions

667-262

Attaching a 667-262 Receptacle Cover to a Rear Panel Mounted Jam Nut Receptacle

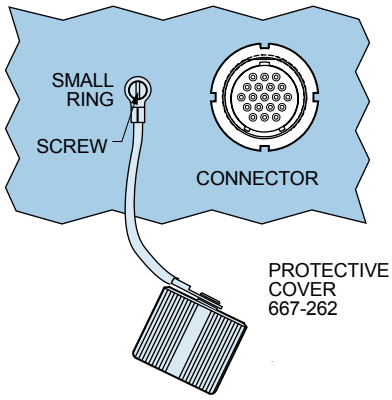


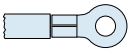


Solid Ring

Dia. Code	Shell Size	Ring I.D. In. ± .010	Ring I.D. mm. ±0.25	Ring O.D. In. ± .015	Ring O.D. mm. ± 0.38
16	8	.570	14.48	.685	17.40
18	9, 10	.695	17.65	.820	20.82
24	11	.766	19.46	1.140	28.96
19	12	.885	22.48	1.010	25.65
20	15	1.070	27.17	1.195	30.35
22	18	1.210	30.73	1.312	33.32
23	19	1.275	32.39	1.375	34.93
25	23	1.530	38.86	1.781	45.24

Attaching a 667-262 Receptacle Cover to a Panel With a Screw

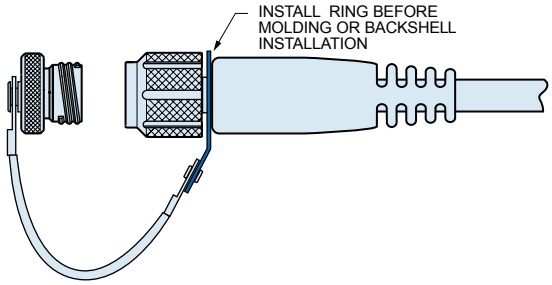


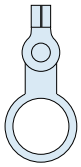


Small Ring for Attaching Receptacle Covers to a Panel with a Screw

Dia. Code	Screw Size	Ring I.D. In. ±.005	Ring I.D. mm. ±0.13	Ring O.D. In. Max.	Ring O.D. mm. Max.
01	#4, M3	.126	3.20	.31	7.9
02	#6	.145	3.68	.31	7.9
04	#8, M4	.188	4.78	.31	7.9
06	#10	.197	5.00	.31	7.9

Attaching a Cover to a Cable Assembly With a Solid Ring

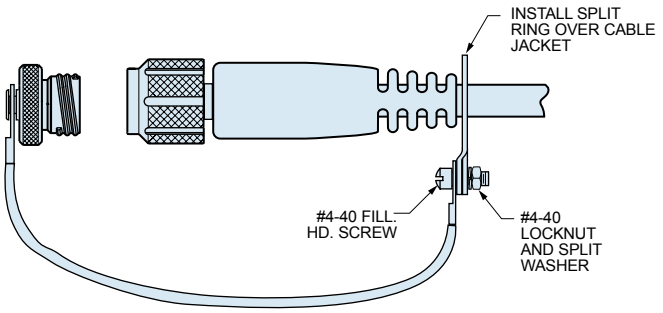


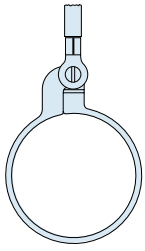


Solid Ring

Dia. Code	Shell Size	Ring I.D. In. ± .010	Ring I.D. mm. ±0.25	Ring O.D. In. ± .015	Ring O.D. mm. ± 0.38
14	8	.385	9.78	.510	12.95
16	9, 10, 11	.570	14.48	.685	17.40
17	12	.635	16.13	.760	19.30
19	15	.885	22.48	1.010	25.65
20	18, 19	1.070	27.17	1.195	30.35
22	23	1.210	30.73	1.312	33.32

Attaching a Cover to a Cable Using a Split Ring or Slip Knot





Large Split Ring for Attaching Covers to Cables

Dia. Code	Max. Cable Dia. (in.)	Ring Diameter Min. ID In.	Ring Diameter Min. ID mm.	Ring Diameter Max. OD In.	Ring Diameter Max. OD mm.
50	.410	.420	10.67	.580	14.73
52	.470	.480	12.19	.640	16.26
54	.625	.635	16.13	.796	20.22
56	.735	.745	18.92	.905	22.99
58	.875	.885	22.48	1.046	26.57
60	1.000	1.010	25.65	1.171	29.74
64	1.115	1.125	28.58	1.285	32.64
68	1.335	1.345	34.16	1.505	38.23

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

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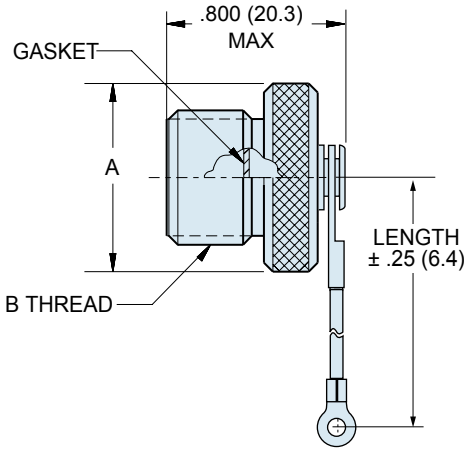
Series 805 Mighty Mouse Triple-Start Protective Cover Dimensions

667-261 and 667-262



667-261 Plug Cover

667-262 Receptacle Cover

Shell Size	A Max.		B	C
	In.	mm.		
8	.653	16.59	.5000-.1P-.3L-TS-2A	.5000-.1P-.3L-TS-2B
9	.715	18.16	.5625-.1P-.3L-TS-2A	.5625-.1P-.3L-TS-2B
10	.778	19.76	.6250-.1P-.3L-TS-2A	.6250-.1P-.3L-TS-2B
11	.841	21.36	.6875-.1P-.3L-TS-2A	.6875-.1P-.3L-TS-2B
12	.903	22.94	.7500-.1P-.3L-TS-2A	.7500-.1P-.3L-TS-2B
15	1.091	27.71	.9375-.1P-.3L-TS-2A	.9375-.1P-.3L-TS-2B
18	1.278	32.46	1.1250-.1P-.3L-TS-2A	1.1250-.1P-.3L-TS-2B
19	1.340	34.04	1.1870-.1P-.3L-TS-2A	1.1870-.1P-.3L-TS-2B
23	1.600	40.64	1.4375-.1P-.3L-TS-2A	1.4375-.1P-.3L-TS-2B

MATERIALS AND FINISHES

Cover	Aluminum alloy or stainless steel
Gasket	Fluorosilicone rubber
Wire,Hardware	Stainless steel, passivated

LANYARD OPTIONS

 **Nylon Rope**	-55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter
 **Polyurethane Coated Wire Rope**	Black polyurethane over stainless steel rope, -55° to +125°C., very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter
 **Teflon® Jacketed Wire Rope**	Translucent FEP jacket over stainless steel, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter
 **Sash Chain**	Stainless steel, #8 chain, .240" (6mm)
 **Slip Knot (SK)** for Attaching Covers to Cable	55° to +100°C., black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop.

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

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SERIES 80

FROM FILTERS TO FIBER OPTICS

The Glenair Series 80 Mighty Mouse Conector line is a full-spectrum, no gaps solution for high-reliability interconnect systems that require reduced size and weight as principal design criteria. From standard environmental versions to advanced EMI/EMP filters, hermetic designs, space-grade versions, fiber optics—you name it—the Series 80 Mighty Mouse is ready for every every mission-critical military and commercial application. And because Glenair controls every manufacturing process in-house, we can offer lightning-fast turnaround on even the most specialized interconnect requirement.

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PRODUCT FACTS

- **Compact Weight-Saving Design with #23 Contacts**
- **C and Pi Filters from 400 pF to 56000 pF**
- **3 Through 130 Contacts**
- **Multilayer Ceramic Planar Capacitor Array**
- **250 Volt DC**
- **PC Tail and Solder Cup Versions**
- **Fully Sealed with Thermally Conductive Epoxy**
- **Space-Grade Bake-Out Processing Available**
- **Double-Start,Triple-Start and Push-Pull Versions**

Glenair's "Mighty Mouse" Delivers EMI/EMP Filtering in a Lightweight, Ultraminiature Package

Glenair's filtered Series 80 "Mighty Mouse" connector family provides significant size and weight savings compared to larger "MS" connectors. The high density #23 contacts provide almost double the density of D38999. Designed to meet stringent aerospace performance requirements, these connectors are offered with standard low pass Pi or C filter arrays, or with customized filters to meet your specific needs. Thermally conductive epoxy protects the filter package from mechanical and heat stress. These filtered receptacles mate to standard Series 80 plugs and are available in jam nut or square flange versions. ***Now available with size #16 and size #12 contacts.***

SPECIFICATIONS	
Current Rating	#23 5 AMPS, #20HD 7.5 A., #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	250 VDC
Insulation Resistance	5000 megohms minimum @ 200 VDC
Operating Temperature	-55° C. to +125° C.
Shock	300 g.
Vibration	37 g.
Shielding Effectiveness	50 dB minimum from 100MHz to 1000MHz.

MATERIALS AND FINISHES	
Shells, Jam Nuts	Aluminum alloy or stainless steel
Contacts	Copper alloy, 50 µInch gold plated
Insulators	Liquid crystal polymer (LCP)
Interfacial Seal, O-rings, Wire Sealing Grommet	Fluorosilicone rubber

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

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Glenair®

Series 80 Mighty Mouse
EMI/EMP Filtered Connectors
General Information

About Filtered Connectors

"Filtering" or suppression of electromagnetic noise within the connector package is reliably accomplished through the integration of capacitors and diodes into the connector to segregate interfering high-frequency or high voltage noise from the desired lower frequency signals.

While various types of capacitor filters are available, perhaps the most widely applied is the Planar Array type. Planar Arrays are extremely effective at filtering high-frequency interference. Planar arrays may be fabricated with different capacitive values on individual pins for additional flexibility in achieving the desired level of EMC. Diodes are used to clamp the voltage below a certain value, thereby protecting the electronic circuity. They are typically integrated into the connector using a small printed circuit board.

Using filter technology has certain advantages to the electrical system engineer, most especially improved signal integrity as well as size and weight reduction. In addition, filters can be incorporated into an interconnect system late in the research and development process; for example after an unforeseen noise problem has been detected. In every filter application the signal levels and frequency bands must be well understood in order to select the appropriate mode or type of filter technology.

EMI noise covers a broad range of frequencies. Filter modes and types are consequently specified according to the EMI frequency ranges which are the source of the actual signal degradation and the operating frequency of the affected device. Filter selection must take the following into account:

Capacitance Value
Working Voltage
Surge Voltage
Dielectric Withstanding Voltage
Insulation Resistance
Transient Protection

Filter connectors suitable for most defense/ aerospace applications are broadly identified as "low-pass" filters (i.e. they let low frequency signals pass through and attenuate higher frequencies). The attenuation curve can be shaped using different filter types (different configurations of capacitors and inductors). These types include: Pi Filter, L-C or C-L Filter, and C Filter. These filter connector types are characterized by their relative abilities to filter noise according to capacitance, voltage values and load impedances.

Prior to shipping a filtered connector, Glenair offers extensive testing, qualification and burn-in options. Tests range from a simple capacitance (C), insulation resistance (IR), and dielectric withstanding voltage (DWV), to more elaborate options such as RF insertion loss, dissipation factor, Zener/ TVS diode test, ground resistance, voltage conditioning and thermal shock.

About Multilayer Ceramic Planar Array Filters

Planar, multi-layer ceramic capacitive filters offer reduced size and improved performance compared to discrete discoidal or tubular capacitors. Planar array filter devices have the advantage, especially when compared to capacitive filters integrated at the circuit board level, of being bidirectionally effective at attenuating unwanted noise travelling into and out of equipment enclosures.

As mentioned above, the planar array can be designed with different capacitive values on individual pins, and pin groupings, and can also be selectively equipped with surge protection diodes. The ability to accommodate such Transient Voltage Suppressions (TVS) diodes to protect against voltage spikes from transient sources such as EMP, lightning or Electrostatic Discharge (ESD) is an additional strength of the planar array design. The planar array package can also easily accommodate ferrite elements to add inductance to the filter device. For these reasons and more, the planar array is the most common filter type specified in defense/ aerospace and other high-performance applications.

The planar array consists of multiple layers of ceramic dielectric separated by individual sheets of a ceramic tape material screen-printed with a pattern of metal electrodes. The exact configuration of the electrodes—their combined capacitance values, positions vis-a-vis individual contacts, selective grounding to the connector shell, etc.—determines the EMI attenuation properties of the filter device. After the layer-cake of dielectric materials and conductive elements is assembled, it is fired at high temperature to create a unified, monolithic structure.

Typically, custom-configured planar arrays, with unique capacitive elements and values, are required to effectively address complex EMI problems such as might be encountered in an avionics bay or in the body of a missile. For this reason, planar array fabrication is accomplished using the most advanced CAD software and CNC machine tools. As critical EMI problems are often discovered late in the development process—perhaps only after equipment has been installed for use—it is critical that turnaround times in design and fabrication of custom designs are kept to a minimum. Glenair is committed to meeting the most aggressive delivery requirements for planar array type filter connectors.

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

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Series 80 Mighty Mouse
EMI/EMP Filtered Connectors
Selection Guide and General Information

SECTION J FILTERED MIGHTY MOUSE PRODUCT SELECTION GUIDE

Series 801 Filtered Receptacles
Page J-6

Series 801 Filtered Receptacles with Double-Start ACME Threads

Rugged double-start ACME thread provides fast mating. Choose jam nut mount (shown) or square flange. Integral shield termination platform accepts BAND-IT micro-bands, sold separately. Mates with Series 801 plugs.

Series 804 Filtered Receptacles
Page J-9

Series 804 Filtered Quick-Disconnect Receptacles

These "push-pull" receptacles mate with standard Series 804 plugs. A coil spring in the receptacle provides low shell-to-shell resistance and consistent de-mate release force. Choose front mount or rear mount jam nut styles.

Series 805 Filtered receptacles
Page J-12

Series 805 Filtered Receptacles with Triple-Start ACME Threads

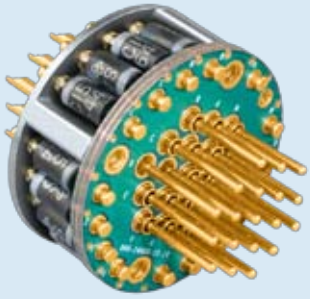
Series 805 connectors offer performance comparable to MIL-DTL-38999 but with reduced size and weight. Mating plugs feature a ground spring and ratcheting self-locking mechanism.

About EMP, ESD and Transient Voltage Suppression

Electromagnetic Pulse (EMP) refers to the intense radio frequency pulses produced by nuclear explosions at high altitudes. Other names for this phenomenon are Nuclear EMP (NEMP), and High-Altitude EMP (HEMP). Like other forms of electromagnetic interference, EMP can have a destructive effect on sensitive electronic devices, particularly those used in mission-critical military applications. This occurs if and when the EMP grounds to an antenna or an unshielded cable and passes unmolested into an electronic device.

Electrostatic Discharge (ESD) is the sudden flow of electric current caused by static electricity and electrostatic induction. Semiconductors can be damaged by ESD.

Transient Voltage Suppression (TVS) technologies are designed to shunt voltage transients directly to ground before such surges can damage sensitive electronic equipment. Individual TVS diodes as well as diode modules may be incorporated directly into the filter connector package to provide optimal protection for either individual contacts or groups of contacts without significant increases in connector size or weight.



Glenair connector subassembly with diodes to shunt excessive voltages to ground.

Individual circuit protection diodes and diode modules are available for all connector types and are routinely stocked by Glenair to reduce lead-times. Individual diodes and modules may be screened and tested prior to assembly to ensure reliable performance. Field maintenance and repair of damaged diodes is also possible as both individual diodes and diode modules are easily removed from the connector package.

RTCA DO-160 and other electrical performance standards now define acceptable benchmarks for withstanding electromagnetic pulse, lightning strike, or other induced voltage surges in high-reliability systems. Glenair designs all TVS equipped filter connectors to conform to the RTCA DO-160 standard. Contact Glenair for more information on filtered connectors with transient voltage suppression.

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

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Series 80 Mighty Mouse
EMI/EMP Filtered Connectors
Filter Types

Glenair supplies filter connectors in the following electrical configurations: C, L-C, C-L, and Pi. The following general values may be used in type selection: single element filter connectors sporting either a single capacitor or inductor yield an insertion loss characteristic of 20dB per decade, dual element filters (capacitor plus an inductor) 40dB per decade, and triple element filters 60dB per decade. Selection is based primarily on source and load impedances but may also be influenced by the level of attenuation required at various frequencies. Please consult the factory for assistance in evaluating insertion loss. values.

C Filter

Single capacitor with low self inductance. This configuration is generally used to attenuate high frequency signals. The simple design allows high-frequency EMI to discharge to ground via the surrounding electromagnetic field.

C

C FILTER INSERTION LOSS

Frequency	Insertion Loss, dB Minimum, 25°C						
	A	B	C	D	E	F	G
1 MHz	6	5	3	–	–	–	–
10 MHz	24	23	16	8	4	–	–
100 MHz	41	39	35	28	21	10	5
500-1000 MHz	50	49	46	41	34	23	17

C FILTER CAPACITANCE

Filter Class	Capacitance (pF)
A	19000 - 28000
B	16000 - 22500
C	9000 - 16500
D	4000 - 6000
E	1650 - 2500
F	400 - 650
G	200 - 300

L-C or C-L Filter

Single capacitor combined with an inductive element. It is commonly used in a circuit with a both a low impedance source and a high impedance load or a low impedance load and a high impedance source. The inductive element should face the low impedance.

L-C C-L

L-C FILTER INSERTION LOSS

Frequency	Insertion Loss, dB Minimum, 25°C						
	A	B	C	D	E	F	G
1 MHz	6	6	3	–	–	–	–
10 MHz	25	24	17	9	6	–	–
100 MHz	42	41	38	30	23	12	6
500-1000 MHz	52	51	48	43	36	25	19

L-C FILTER CAPACITANCE

Filter Class	Capacitance (pF)
A	19000 - 28000
B	16000 - 22500
C	9000 - 16500
D	4000 - 6000
E	1650 - 2500
F	400 - 650
G	200 - 300

Pi Filter

Dual capacitors with a single inductive element positioned between them. The Pi filter provides exceptional high-frequency performance due to its sharper rolloff and is typically used when both source and load impedances are high.

Pi

PI FILTER INSERTION LOSS

Frequency	Insertion Loss, dB Minimum, 25°C						
	A	B	C	D	E	F	G
1 MHz	10	8	5	1	–	–	–
10 MHz	40	35	25	14	8	2	0.8
100 MHz	62	60	57	50	40	15	13
500-1000 MHz	66	62	60	58	52	32	22

PI FILTER CAPACITANCE

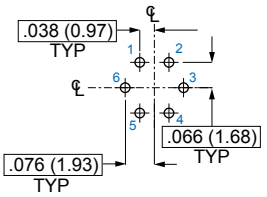
Filter Class	Capacitance (pF)
A	38000 - 56000
B	32000 - 45000
C	18000 - 33000
D	8000 - 12000
E	3300 - 5000
F	800 - 1300
G	400 - 600

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

CAGE Code 06324
Printed in U.S.A.

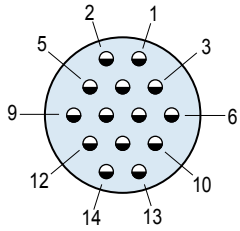
Series 80 "Mighty Mouse" Contact Arrangements

Contact Size	Contact Quantity					Series 801	Series 804	Series 805
	#23	#20	#20HD	#16	#12			
Size #23 Contacts 5 Amp Max. Current 500 VAC	3					5-3	5-3	Not Avail.
	4					6-4	6-4	8-4
	6					6-6	6-6	8-6
	7					6-7	6-7	8-7
	10					7-10	7-10	9-10
	13					8-13	8-13	10-13
	19					9-19	9-19	11-19
	26					10-26	10-26	12-26
	37					13-37	12-37	15-37
	55					16-55	14-55	18-55
	85					17-85	Not Avail.	19-85
	130					21-130	Not Avail.	23-130
Size #20HD Contacts 7.5 Amp Max. Current 750 VAC			3			6-23	6-23	8-23
			5			7-25	7-25	9-25
			8			8-28	8-28	10-28
			10			9-210	9-210	11-210
			20			13-220	12-220	15-220
			35			16-235	14-235	18-235
			41			17-241	Not Avail.	19-241
			69			21-269	Not Avail.	23-269
Size #16 Contacts 13 Amp Max. Current 1800 VAC				1		6-1	6-1	8-1
				2		8-2	8-2	10-2
				4		9-4	9-4	11-4
				5		10-5	10-5	12-5
				7		13-7	12-7	15-7
				12		16-12	14-12	18-12
				14		17-14	Not Avail.	19-14
				22		21-22	Not Avail.	23-22
Size #12 Contacts 23 Amp Max. Current 1800 VAC					1	7-1	7-1	9-1
					2	10-2	10-2	12-2
					2	13-2	12-2	15-2
					3	13-3	12-3	15-3
					5	16-5	14-5	18-5
					7	17-7	Not Avail.	19-7
					12	21-12	Not Avail.	23-12
Contact Arrangements with Mixed Size (Combo) Layouts	4	2				8-200	8-200	10-200
	8	2				9-201	9-201	11-201
	4			2		9-200	9-200	11-200
	8			2		10-202	10-202	12-202
	4				2	10-201	10-201	12-201
	6				2	13-200	12-200	15-200
	10				2	13-201	12-201	15-201
	12				1	10-200	10-200	12-200



Printed Circuit Board Layouts

Refer to Pages B-4 to B-15 in Section B General Information



Insert Arrangements

Refer to Pages B-2 to B-3 in Section B General Information

Product Specifications

Refer to Pages B-18 to B-23 in Section B General Information

Torque Specifications

Refer to Page B-16 in Section B General Information

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

CAGE Code 06324
Printed in U.S.A.

Series 801 Mighty Mouse
EMI/EMP Filtered Connectors
Ordering Information

Series 801 Filtered Connectors feature double-start ACME coupling threads. Available in ***Jam Nut*** and ***Square Flange*** versions, these environmentally sealed connectors offer aerospace filter performance in a miniaturized package.

These connectors mate to standard Series 801 plugs.

Consult Factory *for Additional Filter Types, TVS Diodes, and other Custom Filter Connector Configurations.*

Series 801 "Mighty Mouse"

Insert Arrangement (See Table III Page J-5)

Filter Connector Product Code

Connector Matl/Fin (See Table I)

Contact Gender
P *- Pin*
S *- Socket*

Capacitance Code (See Table II)

240	-	801	-	02	M	6-7	P	S	P	A	A

Shell Style

01 *- Square Flange Receptacle with Solder Cup Contacts and Band Platform*

02 *- Square Flange Receptacle with Printed Circuit Board Contacts*

07 *- Jam Nut Receptacle with Solder Cup Contacts and Band Platform*

08 *- Jam Nut Receptacle with Printed Circuit Board Contacts*

Contact Termination

S *- Solder Cup (Shell Style 01 and 07 only)*

P *- PC Tail (Shell Style 02 and 08 only)*

Filter Type
P *- Pi* ***C*** *- C*

Alternate Key Position
A, B, C, D, E, F
(A = Normal)

TABLE I: CONNECTOR MATERIAL AND FINISH

SYM	MATERIAL	FINISH
M	Aluminum	Electroless Nickel
MT	Aluminum	NI-PTFE 1000 Hour Grey (Nickel-Fluorocarbon Polymer)
NF	Aluminum	Cadmium O.D. Over Electroless Nickel
ZM	Stainless Steel	Electroless Nickel
ZN	Aluminum	Zinc-Nickel Over Electroless Nickel

TABLE II: CAPACITANCE CODE

CODE	PI - SECTION (pF)	C - SECTION (pF)
A	38,000 - 56,000	19,000 - 28,000
B	32,000 - 45,000	16,000 - 22,500
C	18,000 - 33,000	9,000 - 16,500
D	8,000 - 12,000	4,000 - 6,000
E	3,300 - 5,000	1,650 - 2,500
F	800 - 1,300	400 - 650
G	400 - 600	200 - 300

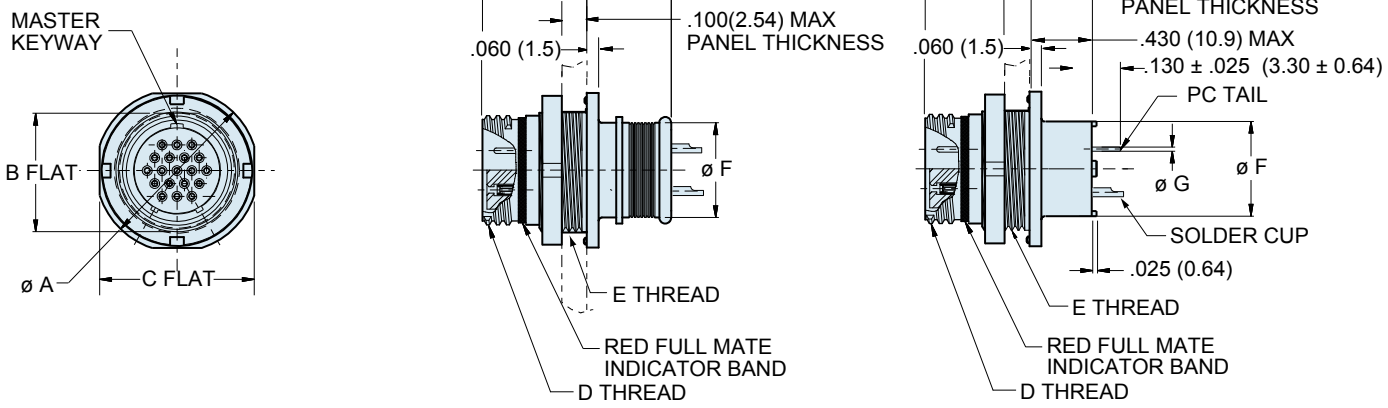
Dimensions in inches (millimeters) and are subject to change without notice.

CAGE Code 06324
Printed in U.S.A.

Series 801 Mighty Mouse EMI/EMP Filtered Connectors
Jam Nut Receptacle Dimensions
240-801-07 and 240-801-08

Solder Cup with Band Platform
240-801-07

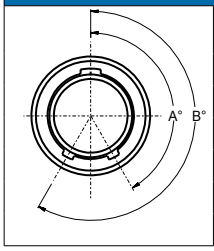
PC Tail/Solder Cup
240-801-08



DIMENSIONS

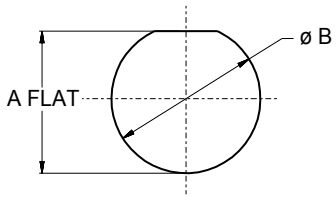
Shell Size	Ø A		B Flat		C Flat		D Thread	E Thread UN-2A	Ø F		Ø G
	In.	mm.	In.	mm.	In.	mm.			In.	mm.	
5	.575	14.61	.350	8.89	.545	13.84	.3125-.05P-.1L-2A	.375-28	.245	6.22	#23 .018/.022 (0.46/0.56)
6	.635	16.13	.410	10.41	.595	15.11	.375-.05P-.1L-2A	.4375-28	.290	7.37	
7	.755	19.18	.536	13.61	.723	18.36	.4375-.05P-1L2A	.5625-32	.390	9.91	#20 .024/.028 (0.61/0.71)
8	.755	19.18	.536	13.61	.723	18.36	.5000-.05P-.1L-2A	.5625-32	.445	11.30	
9	.830	21.08	.596	15.14	.790	20.07	.5625-.05P-.1L-2A	.625-28	.500	12.70	
10	.890	22.61	.658	16.71	.855	21.72	.6250-.05P-.1L-2A	.6875-28	.560	14.22	#16 .060/.064 (1.52/1.63)
13	1.078	27.38	.845	21.46	1.044	26.52	.8125-.1P-.2L-2A	.875-28	.650	16.51	
16	1.264	32.11	1.022	25.96	1.230	31.24	1.000-.1P-.2L-2A	1.0625-20	.805	20.45	#12 .092/.096 (2.34/2.44)
17	1.325	33.66	1.096	27.84	1.290	32.77	1.062-.1P-.2L-2A	1.125-28	.850	21.59	
21	1.625	41.28	1.345	34.16	1.577	40.06	1.3125-.1P-.2L-2A	1.375-28	1.110	28.19	

KEY POSITIONS



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

SERIES 801 JAM NUT PANEL CUTOUT



Shell Size	A Flat		Ø B	
	In. ± .002	mm. ± 0.05	In. ± .002	mm. ± 0.05
5	.356	9.04	.385	9.78
6	.416	10.57	.447	11.35
7	.542	13.77	.572	14.53
8	.542	13.77	.572	14.53
9	.602	15.29	.635	16.13
10	.666	16.92	.697	17.70
13	.851	21.62	.885	22.48
16	1.028	26.11	1.075	27.31
17	1.102	27.99	1.135	28.83
21	1.354	34.39	1.385	35.18

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

CAGE Code 06324
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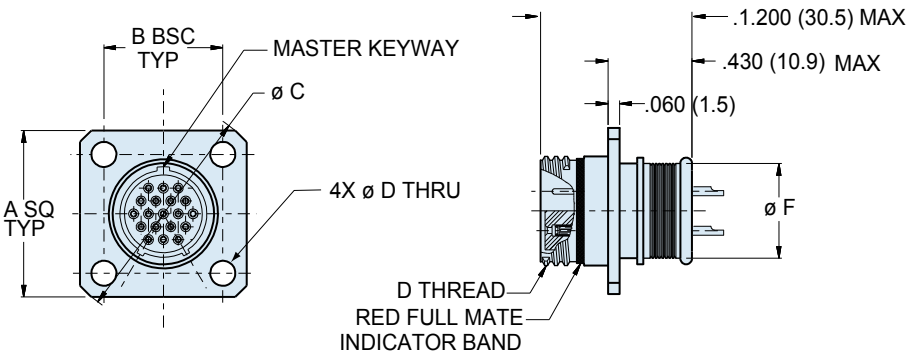
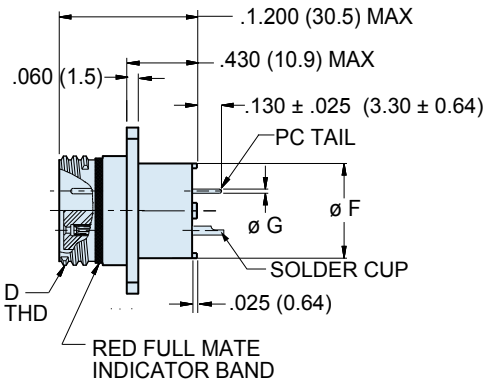
Series 801 Mighty Mouse EMI/EMP Filtered Connectors
Square Flange Receptacle Dimensions
240-801-01 and 240-801-02

Solder Cup with Band Platform
240-801-01



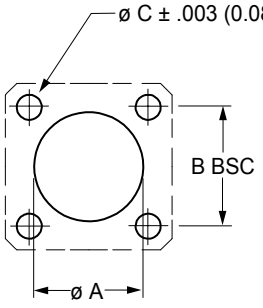
PC Tail/ Solder Cup
240-801-02



DIMENSIONS

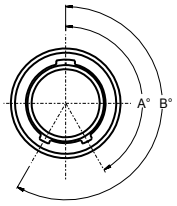
Shell Size	A		B BSC		Ø C		Ø D		E Thread	Ø F		Ø G
	In.	mm.	In.	mm.	In.	mm.	In. ±.003	mm. ±.08		In.	mm.	
5	.530	13.46	.363	9.22	.680	17.27	.093	2.36	.3125-.05P-.1L-2A	.245	6.22	#23 .018/.022 (0.46/0.56)
6	.590	14.99	.423	10.74	.750	19.05	.093	2.36	.375-.05P-.1L-2A	.290	7.37	
7	.650	16.51	.483	12.27	.850	21.59	.093	2.36	.4375-.05P-1L-2A	.390	9.91	
8	.712	18.08	.545	13.84	.938	23.83	.093	2.36	.5000-.05P-1L-2A	.445	11.30	#20 .024/.028 (0.61/0.71)
9	.850	21.59	.607	15.42	1.125	28.58	.128	3.25	.5625-.05P-.1L-2A	.500	12.70	
10	.890	22.61	.670	17.02	1.188	30.18	.128	2.25	.6250-.05P-1L-2A	.560	14.22	#16 .060/.064 (1.52/1.63)
13	1.030	26.16	.812	20.62	1.375	34.93	.128	3.25	.8125-.1P-.2L-2A	.650	16.51	
16	1.219	30.96	.981	24.92	1.625	41.28	.128	3.25	1.000-.1P-.2L-2A	.805	20.45	#12 .092/.096 (2.34/2.44)
17	1.280	32.51	1.060	26.92	1.700	43.18	.128	3.25	1.062-.1P-.2L-2A	.850	21.59	
21	1.430	36.32	1.205	30.61	1.938	49.23	.128	3.25	1.3125-.1P-.2L-2A	1.110	28.19	

SERIES 801 PANEL CUTOUT



Shell Size	Ø A		Ø B		Ø C	
	In	mm.	In	mm.	In	mm.
5	.330	8.38	.363	9.22	.093	2.36
6	.390	9.91	.423	10.74	.093	2.36
7	.450	11.43	.483	12.27	.093	2.36
8	.510	12.95	.545	13.84	.093	2.36
9	.575	14.61	.607	15.42	.128	3.25
10	.640	16.26	.670	17.02	.128	3.25
13	.825	20.96	.812	20.65	.128	3.25
16	1.015	25.78	.981	24.92	.128	3.25
17	1.075	27.31	1.060	26.92	.128	3.25
21	1.325	33.66	1.205	30.61	.128	3.25

KEY POSITIONS



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

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

CAGE Code 06324
Printed in U.S.A.

Series 804 Mighty Mouse
EMI/EMP Filtered Connectors
Ordering Information

Series 804 Filtered Connectors feature push-pull coupling. These environmentally sealed connectors offer aerospace filter performance in a miniaturized package. A gold-plated spring provides excellent shell-to-shell conductivity.

Consult Factory *for Additional Filter Types, TVS Diodes, and other Custom Filter Connector Configurations.*

These connectors mate to standard Series 804 plugs.

Filter Connector Product Code	Series 804 "Mighty Mouse" Push-Pull	Shell Style	Connector Matl/Fin	Insert Arrangement	Contact Style	Termination	Filter Type	Capacitance Code	Key Position
240	804	07	M	6-7	P	S	P	A	A

- **Filter Connector Product Code:** 240
- **Series 804 "Mighty Mouse" Push-Pull:** 804
- **Shell Style:** 07 - *Jam Nut Receptacle, Rear Mount*; 08 - *Jam Nut Receptacle, Rear Mount*
- **Connector Matl/Fin:** See Table I
- **Insert Arrangement:** (See Table III Page J-5)
- **Contact Style:** P - *Pin*; S - *Socket*
- **Termination:** S - *Solder Cup*; P - *PC Tail*
- **Filter Type:** P - *Pi*; C - *C*
- **Capacitance Code:** See Table II
- **Key Position:** *Omit* for Single Keyway; *A, B, C, D* (A = Normal)

TABLE I: CONNECTOR MATERIAL AND FINISH

SYM	MATERIAL	FINISH
M	Aluminum	Electroless Nickel
MT	Aluminum	NI-PTFE 1000 Hour Grey (Nickel-Fluorocarbon Polymer)
NF	Aluminum	Cadmium O.D. Over Electroless Nickel
ZM	Stainless Steel	Electroless Nickel
ZN	Aluminum	Zinc-Nickel Over Electroless Nickel

TABLE II: CAPACITANCE CODE

CODE	PI - SECTION (pF)	C - SECTION (pF)
A	38,000 - 56,000	19,000 - 28,000
B	32,000 - 45,000	16,000 - 22,500
C	18,000 - 33,000	9,000 - 16,500
D	8,000 - 12,000	4,000 - 6,000
E	3,300 - 5,000	1,650 - 2,500
F	800 - 1,300	400 - 650
G	400 - 600	200 - 300

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

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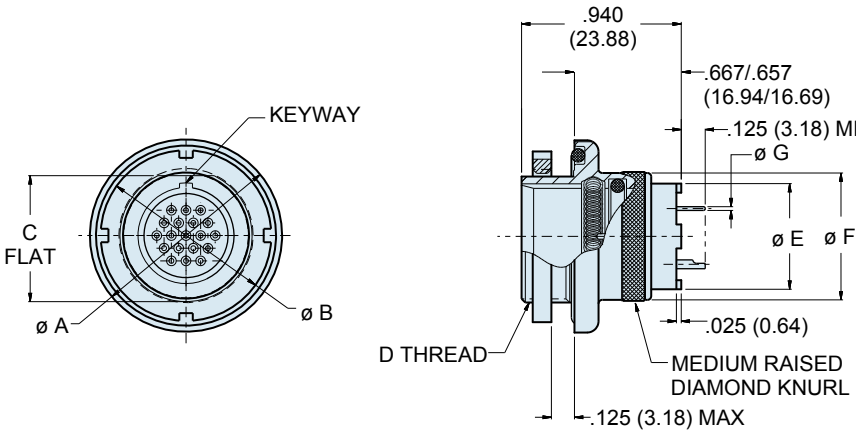
www.glenair.com

E-Mail: sales@glenair.com

01-JANUARY-2010

Series 804 "Mighty Mouse" EMI/EMP Filtered Connectors
Rear Mount Jam Nut Receptacle Dimensions
240-804-07



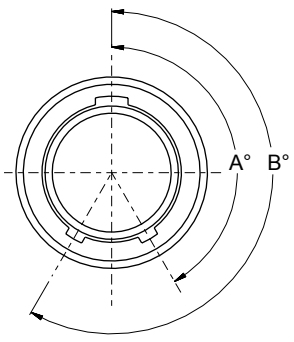
Rear Panel Jam Nut
240-804-07

DIMENSIONS

Shell Size	Ø A		Ø B		C Flat		D Threads	Ø E		Ø F		Ø G Tail Dia.
	In.	mm.	In.	mm.	In.	mm.		In.	mm.	In.	mm.	
5	.730	18.54	.562	14.27	.415	10.54	.4375-32 UN-2A	.244	6.20	.435	11.05	**#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)
6	.730	18.54	.625	15.87	.467	14.40	.5000-32 UN-2A	.330	8.38	.483	12.27	
7	.910	23.11	.750	19.05	.594	15.09	.6250-28 UN-2A	.432	10.97	.570	14.48	
8	.955	24.26	.750	19.05	.594	15.09	.6250-28 UN-2A	.493	12.52	.593	15.06	
9	1.000	25.40	.812	20.62	.655	16.64	.6875-28 UN-2A	.551	14.00	.685	17.40	
10	1.085	27.48	.875	22.22	.721	18.31	.7500-28 UN-2A	.620	15.75	.725	18.42	
12	1.190	30.23	1.000	25.40	.843	21.41	.8750-28 UN-2A	.703	17.86	.850	21.59	
14	1.325	33.66	1.125	28.57	.968	24.59	1.0000-28 UN-2A	.863	21.92	.973	24.71	
15	1.375	34.93	1.188	30.17	1.029	26.14	1.0625-20 UN-2A	.912	23.16	1.028	26.11	

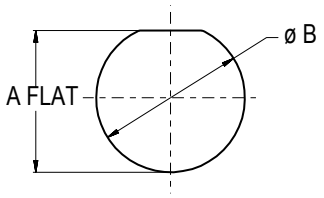
J

ALTERNATE KEY POSITIONS



Pos.	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

STYLE 07 JAM NUT PANEL CUTOUT

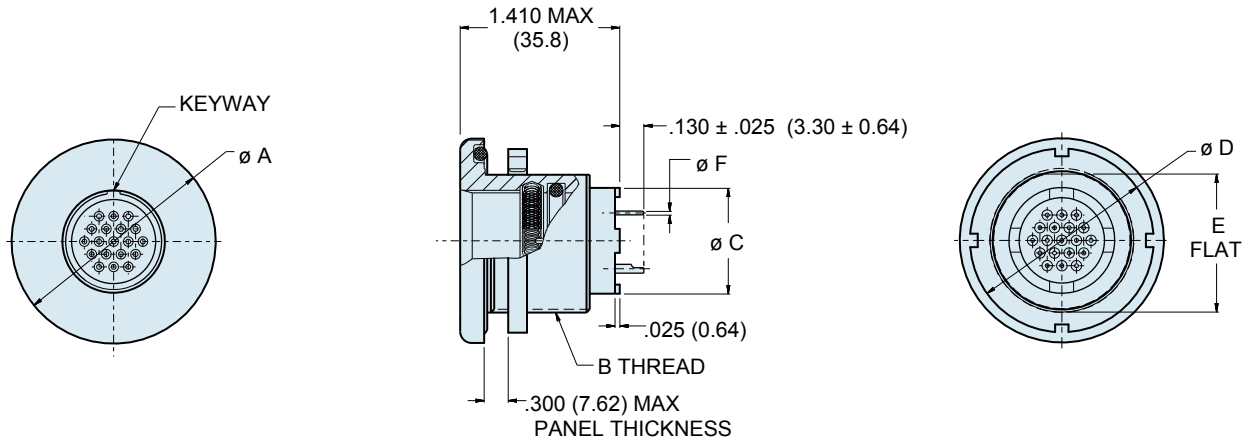


Shell Size	A Flat		Ø B	
	In. ± .002	mm. ± 0.05	In. ± .005	mm. ± 0.13
5	.425	10.80	.448	11.38
6	.477	12.12	.510	12.95
7	.604	15.34	.635	16.13
8	.604	15.34	.635	16.13
9	.665	16.89	.695	17.65
10	.731	18.57	.760	19.30
12	.853	21.67	.885	22.48
14	.978	24.84	1.010	25.65
15	1.039	26.39	1.070	27.18

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

CAGE Code 06324
Printed in U.S.A.

Series 804 "Mighty Mouse" EMI/EMP Filtered Connectors
Front Mount Jam Nut Receptacle Dimensions
240-804-08

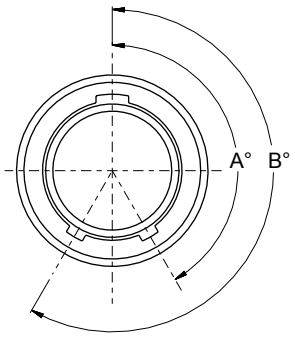


Front Panel Jam Nut
240-804-08

DIMENSIONS

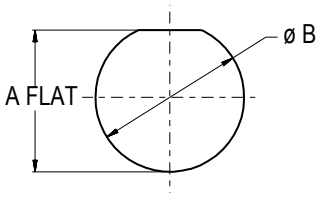
Shell Size	Ø A		B Threads	Ø C		Ø D		E Flat		Ø F Tail Dia.
	In.	mm.		In.	mm.	In.	mm.	In.	mm.	
5	.830	21.08	.5000-32 UN-2A	.244	6.20	.625	15.87	.470	11.94	**#23** .018/.022 (0.46/0.56) **#20** .024/.028 (0.61/0.71) **#16** .060/.064 (1.52/1.63) **#12** .092/.096 (2.34/2.44)
6	.885	22.48	.5625-28 UN-2A	.330	8.38	.688	17.47	.530	13.46	
7	.995	25.27	.6875-28 UN-2A	.432	10.97	.812	20.62	.663	16.84	
8	.995	25.27	.6875-28 UN-2A	.493	12.52	.812	20.62	.663	16.84	
9	1.075	27.31	.7500-28 UN-2A	.551	14.00	.875	22.22	.720	18.29	
10	1.140	28.95	.8125-28 UN-2A	.620	15.75	.938	23.82	.788	20.02	
12	1.340	34.04	1.0000-28 UN-2A	.703	17.86	1.125	28.57	.970	24.64	
14	1.390	35.31	1.0625-20 UN-2A	.863	21.92	1.188	30.18	1.020	25.91	
15	1.450	36.83	1.1250-28 UN-2A	.912	23.16	1.250	31.75	1.093	27.76	

ALTERNATE KEY POSITIONS



Pos.	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

STYLE 08 JAM NUT PANEL CUTOUT



Shell Size	A Flat		Ø B	
	In. ± .002	mm. ± 0.05	In. ± .005	mm. ± 0.13
5	.480	12.19	.510	12.95
6	.540	13.72	.575	14.61
7	.674	17.12	.698	17.73
8	.674	17.12	.698	17.73
9	.730	18.54	.760	19.30
10	.799	20.29	.822	20.88
12	.980	24.89	1.010	25.65
14	1.030	26.16	1.075	27.31
15	1.103	28.02	1.135	28.83

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

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse
EMI/EMP Filtered Connectors
Ordering Information

Series 805 Filtered Connectors feature triple-start ACME coupling threads. Available in ***Jam Nut*** and ***Square Flange*** versions, these environmentally sealed connectors offer aerospace filter performance in a miniaturized package.

These connectors mate to standard Series 805 plugs.

Consult Factory *for Additional Filter Types, TVS Diodes, and other Custom Filter Connector Configurations.*

Filter Connector Product Code		Series 805 Triple-Start		Connector Matl/Fin (See Table I)	Insert Arrangement (See Table III)	Contact Gender		Capacitance Code (See Table II)		
240	-	805	-	02	M	8-7	P	S	P	A	A

Shell Style

- ***01*** - *Square Flange Receptacle with Solder Cup Contacts and Band Platform*
- ***02*** - *Square Flange Receptacle with Printed Circuit Board Contacts*
- ***07*** - *Jam Nut Receptacle with Solder Cup Contacts and Band Platform*
- ***08*** - *Jam Nut Receptacle with Printed Circuit Board Contacts*

Contact Termination

- ***S*** - *Solder Cup (Shell Style 01 and 07 only)*
- ***P*** - *PC Tail (Shell Style 02 and 08 only)*

Filter Type

P - *Pi* ***C*** - *C*

Alternate Key Position

A, B, C, D
(A = Normal)

TABLE I: CONNECTOR MATERIAL AND FINISH

SYM	MATERIAL	FINISH
M	Aluminum	Electroless Nickel
MT	Aluminum	NI-PTFE 1000 Hour Grey (Nickel-Fluorocarbon Polymer)
NF	Aluminum	Cadmium O.D. Over Electroless Nickel
ZM	Stainless Steel	Electroless Nickel
ZN	Aluminum	Zinc-Nickel Over Electroless Nickel

TABLE II: CAPACITANCE CODE

CODE	PI - SECTION (pF)	C - SECTION (pF)
A	38,000 - 56,000	19,000 - 28,000
B	32,000 - 45,000	16,000 - 22,500
C	18,000 - 33,000	9,000 - 16,500
D	8,000 - 12,000	4,000 - 6,000
E	3,300 - 5,000	1,650 - 2,500
F	800 - 1,300	400 - 650
G	400 - 600	200 - 300

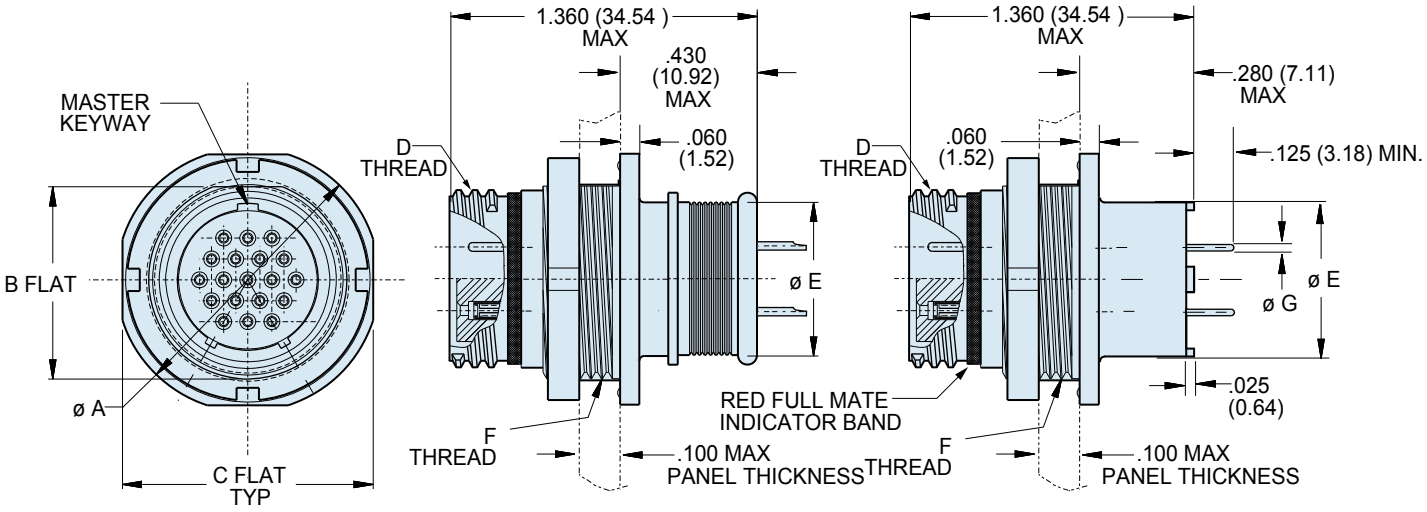
Dimensions in inches (millimeters) and are subject to change without notice.

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse EMI/EMP Filtered Connectors
Square Flange Receptacle Dimensions
240-805-07 and 240-805-08

Solder Cup with Band Platform
240-805-07

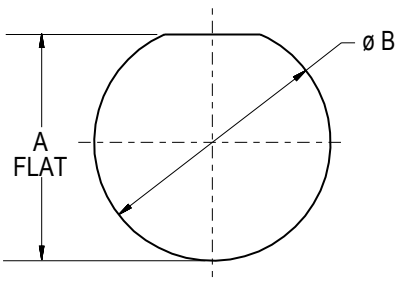
Printed Circuit Board Contacts
240-805-08



DIMENSIONS

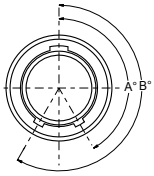
Shell Size	Ø A		B		C		D Threads	Ø E		F Threads	Ø G
	In.	mm.	In.	mm.	In.	mm.		In.	mm.		
8	.760	19.30	.535	13.59	.730	18.54	.5000-.1P-.3L-TS-2A	.317	8.05	.5625-28 UNEF-2A	#23 .018/.022 (0.46/0.56)
9	.880	22.35	.661	16.79	.850	21.59	.5625-.1P-.3L-TS-2A	.397	10.08	.6875-28 UN-2A	
10	.880	22.35	.661	16.79	.850	21.59	.6250-.1P-.3L-TS-2A	.473	12.01	.6875-28 UN-2A	#20 .024/.028 (0.61/0.71)
11	.955	24.26	.721	18.31	.925	23.50	.6875-.1P-.3L-TS-2A	.519	13.18	.7500-28 UN-2A	
12	1.060	26.92	.784	19.91	1.035	26.29	.7500-.1P-.3L-TS-2A	.585	14.86	.8125-28 UN-2A	
15	1.203	30.56	.970	24.64	1.173	29.79	.9375-.1P-.3L-TS-2A	.687	17.45	1.0000-28 UN-2A	#16 .060/.064 (1.52/1.63)
18	1.389	35.28	1.147	29.13	1.359	34.52	1.1250-.1P-.3L-TS-2A	.884	22.45	1.1875-28 UN-2A	
19	1.450	36.83	1.221	31.01	1.420	36.07	1.1875-.1P-.3L-TS-2A	.884	22.45	1.2500-28 UN-2A	#12 .092/.096 (2.34/2.44)
23	1.705	43.31	1.470	37.34	1.675	42.55	1.4375-.1P-.3L-TS-2A	1.134	28.80	1.500-25 UN-2A	

PANEL CUTOUT FOR JAM NUT RECEPTACLE



Shell Size	A Flat		Ø B	
	In. ± .002	mm. ± 0.05	In. ± .005	mm. ± 0.13
8	.543	13.79	.572	14.53
9	.669	16.99	.698	17.73
10	.669	16.99	.698	17.73
11	.729	18.51	.760	19.30
12	.792	20.17	.822	20.88
15	.978	24.84	1.010	25.65
18	1.155	29.34	1.198	30.43
19	1.229	31.22	1.260	32.00
23	1.480	37.59	1.510	38.35

SERIES 805 KEY POSITIONS



Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

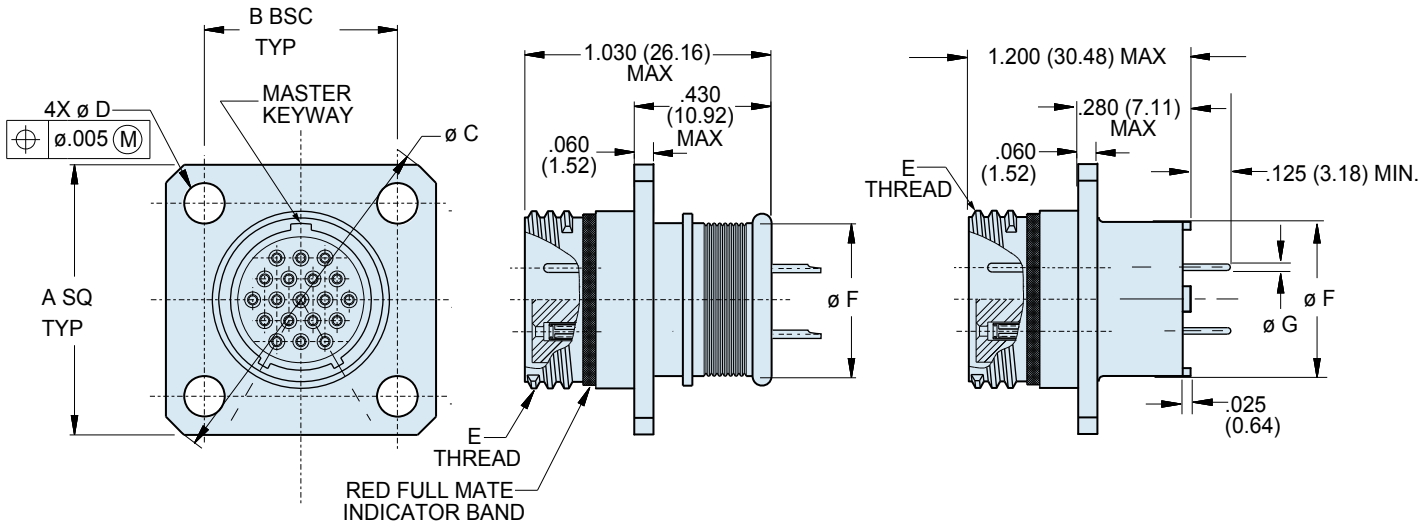
Dimensions in inches (millimeters) and are subject to change without notice.

CAGE Code 06324
Printed in U.S.A.

Series 805 Mighty Mouse EMI/EMP Filtered Connectors
Square Flange Receptacle Dimensions
240-805-01 and 240-805-02

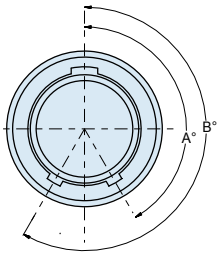
Solder Cup with Band Platform
240-805-01

Printed Circuit Board Contacts
240-805-02



DIMENSIONS

Shell Size	A		B		ØC		ØD		E Threads	Ø F		Ø G
	In.	mm.	In.	mm.	In.	mm.	In. ± .003	mm. ± .08		In.	mm.	
8	.850	21.59	.660	16.76	1.150	29.21	.094	2.39	.5000-.1P-.3L-TS-2A	.316	8.05	
9	.913	23.19	.723	18.36	1.230	31.24	.094	2.39	.5625-.1P-.3L-TS-2A	.397	10.08	**#23** .018/.022 (0.46/0.56)
10	.975	24.77	.785	19.94	1.330	33.78	.094	2.39	.6250-.1P-.3L-TS-2A	.472	12.01	
11	1.039	26.39	.848	21.54	1.410	35.81	.094	2.39	.6875-.1P-.3L-TS-2A	.519	13.18	**#16** .060/.064 (1.52/1.63)
12	1.099	27.91	.909	23.09	1.500	38.10	.094	2.39	.7500-.1P-.3L-TS-2A	.585	14.86	
15	1.288	32.74	1.058	26.87	1.750	44.45	.128	3.25	.9375-.1P-.3L-TS-2A	.687	17.45	
18	1.475	37.47	1.255	31.88	2.000	50.80	.128	3.25	1.1250-.1P-.3L-TS-2A	.884	22.45	**#12** .092/.096 (2.34/2.44)
19	1.537	71.06	1.327	33.71	2.094	53.19	.128	3.25	1.1875-.1P-.3L-TS-2A	.884	22.45	
23	1.787	45.39	1.570	39.88	2.440	61.98	.128	3.25	1.4375-.1P-.3L-TS-2A	1.134	28.80	



SERIES 805 KEY POSITIONS

Key Position	Key Rotation	
	A	B
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°

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

CAGE Code 06324
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