

Series 805 Mighty Mouse Triple-Start ACME Thread Receptacle 805-003 and 805-004 Ordering Information



Series 805



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 (See Table I)	805-003 = Receptacle with Banding Platform 805-004 = Receptacle with Accessory Thread						
Shell Style (See Table II)	-01 = In-line -02 = Square Flange Front or Rear Mount -12 = Square Flange Rear Mount Non-Locking Clinch Nuts -22 = Square Flange Rear Mount Locking Clinch Nuts -07 = Jam Nut for Rear Panel Mounting						
Shell Material and Finish	C = Aluminum / Black Anodize (Non-Conductive); RoHS Compliant M = Aluminum / Electroless Nickel; RoHS Compliant MT = Aluminum / Nickel-PTFE RoHS Compliant NF = Aluminum / Cadmium with Olive Drab Chromate ZNU = Aluminum / Zinc-Nickel with Black Chromate Z1 = Stainless Steel / Passivated; RoHS Compliant ZB = Stainless Steel / Olive Drab Chromate over Cadmium ZC = Stainless Steel / Zinc Cobalt Alloy/Black Chromate						
Shell Size - Insert Arrangement	See Contact Arrangements Page H-2						
Contact Type	With contacts P = Pin S = Socket		Without contacts A = Pin Connector, less contacts B = Socket Connector, less contacts		With 30 AWG Crimp Barrel G = #23 Pin H = #23 Socket		
Shell Key Positions (See Table III)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F						

Table I: Series	
805-003 Receptacle with Banding Platform	805-004 Receptacle with Accessory Thread

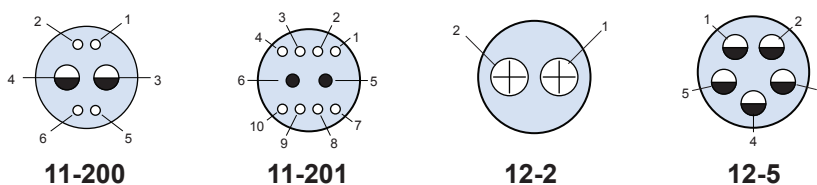
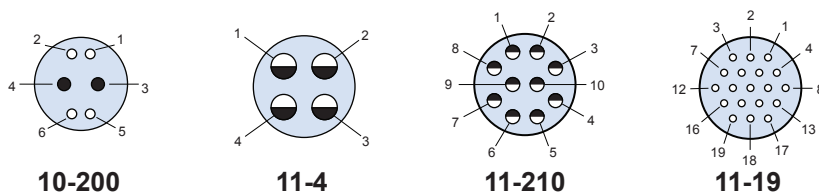
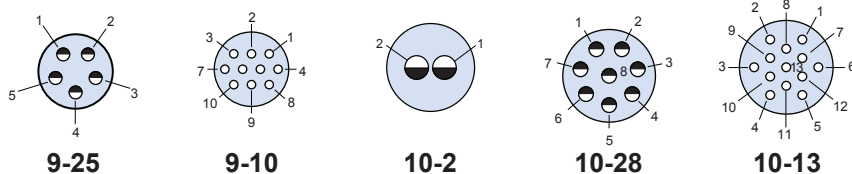
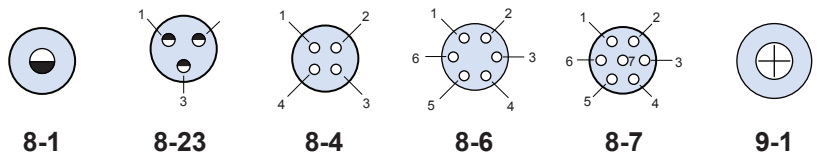
Table II: Shell Style		
-01 In-line Receptacle	-02, -12, -22 Square Flange	-07 Jam Nut

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

Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements

Contact Arrangements						
Contact Arr.	No. of Contacts					
	#23	#20	#20HD	#16	#12*	#8
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		
13-31	31					
15-2					2	
15-3					3	
15-7				7		
15-220			20			

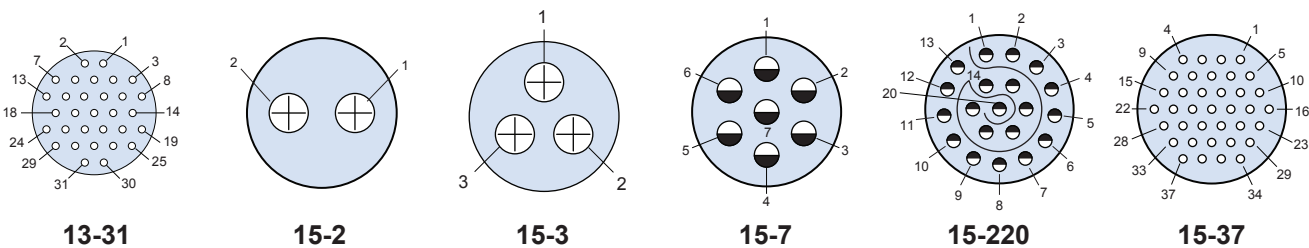
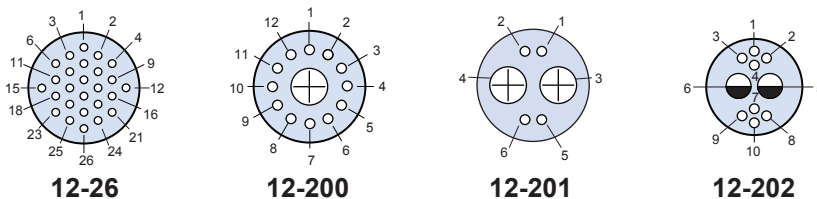
Mating Face View of Pin Connector (socket connector numbers are reversed)



*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

Contact Legend

#23◦ #20HD◐ #20● #16◑ #12⊕



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Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements



Series 805

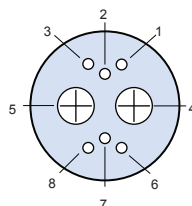
Contact Arrangements						
Contact Arr.	No. of Contacts					
	#23	#20	#20HD	#16	#12*	#8
15-37	37					
15-200	6				2	
15-201	10				2	
15-202	20			2		
15-203	12			4		
15-204	12				2	
15-205	4				4	
18-5					5	
18-12				12		
18-235			35			
18-55	55					
18-204	40			2		
18-205	32			4		
18-206	34			2		
18-207	20			4		
18-208	32					1
19-7					7	
19-14				14		
19-241			41			

*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

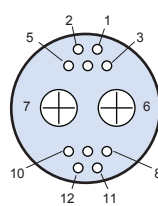
Contact Legend

#23◦ #20HD◐ #20● #16◑ #12⊕

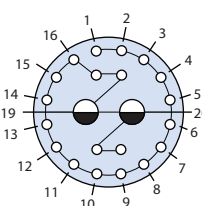
Mating Face View of Pin Connector (socket connector numbers are reversed)



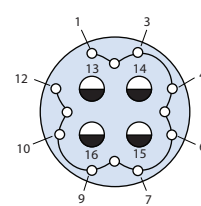
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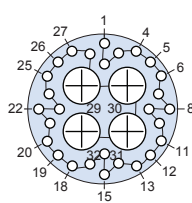
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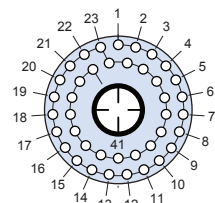
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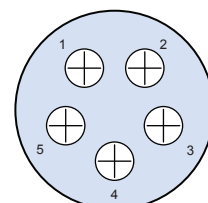
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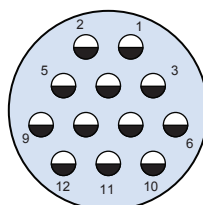
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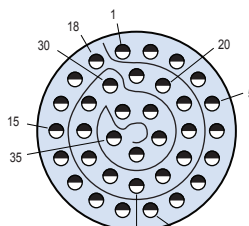
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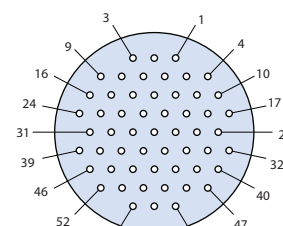
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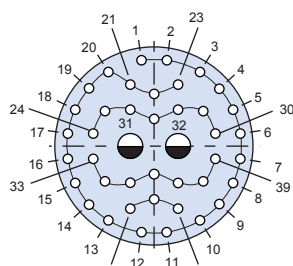
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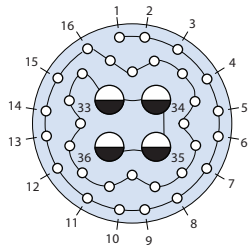
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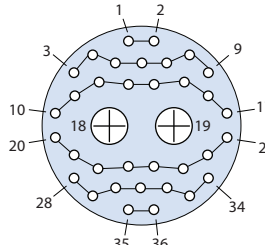
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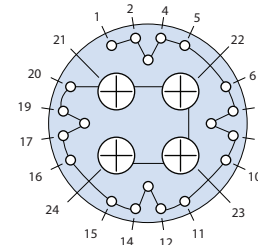
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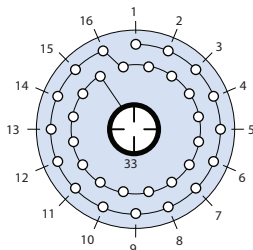
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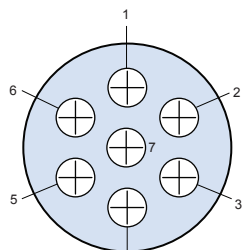
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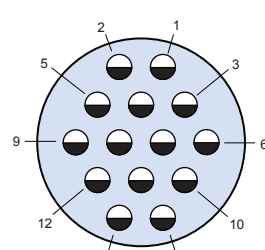
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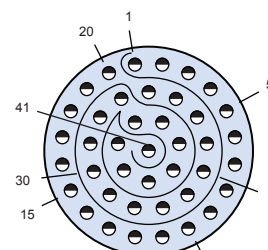
18-208



19-7



19-14



19-241

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Series 805 Mighty Mouse Triple-Start Threaded Coupling Contact Arrangements

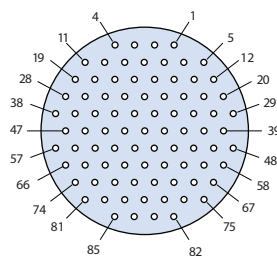
Contact Arrangements						
Contact Arr.	No. of Contacts					
	#23	#20	#20HD	#16	#12*	#8
19-85	85					
19-203	40			4		
19-204	28				4	
19-205						
21-19				19		
21-255			55			
21-100	100					
21-201	44					2
21-202	12					4
23-12					12	
23-22				22		
23-269			69			
23-130	130					
23-200	28					4

*All arrangements with #12 contacts available with keyed Twinax contacts. Use mode code -688

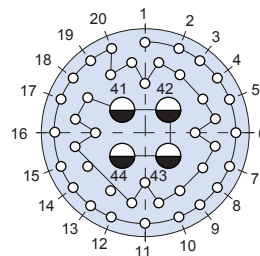
Contact Legend

#23◦ #20HD● #20● #16◐ #12⊕

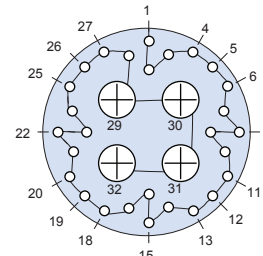
Mating Face View of Pin Connector (socket connector numbers are reversed)



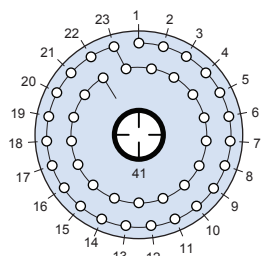
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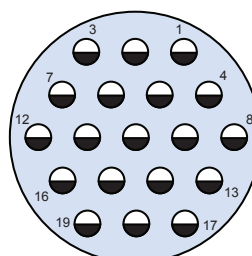
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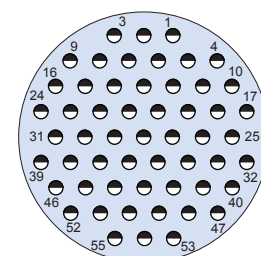
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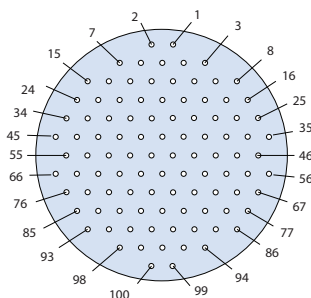
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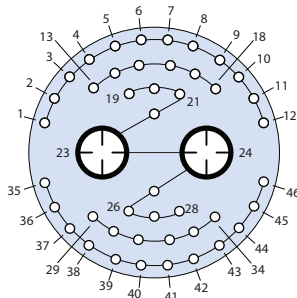
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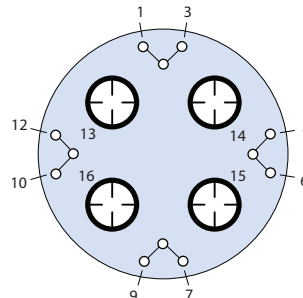
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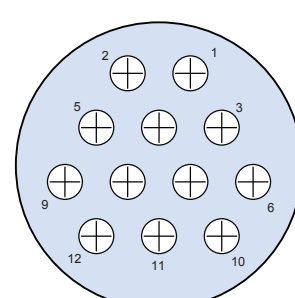
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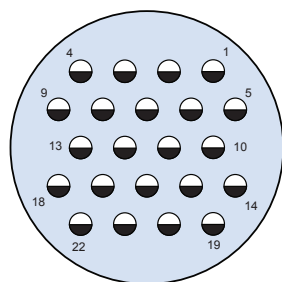
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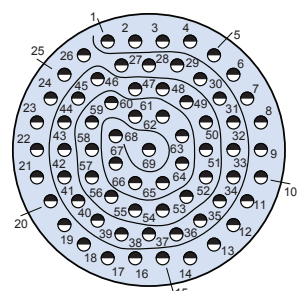
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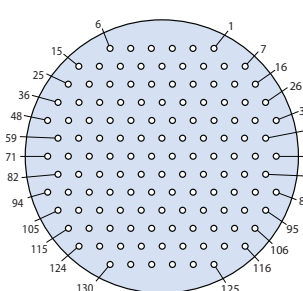
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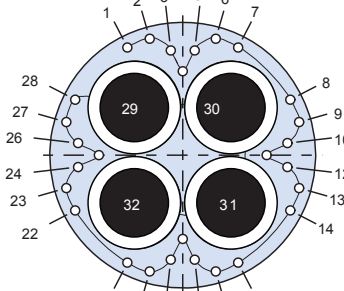
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23-269



23-130



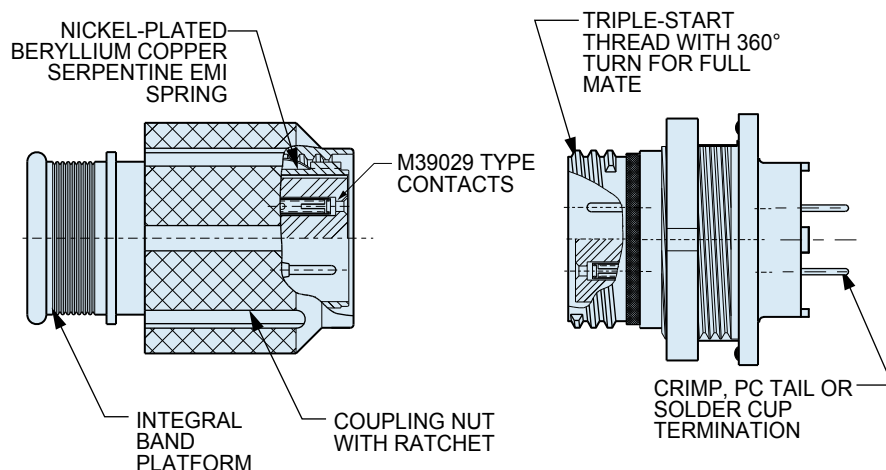
21-200

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

Series 805 Mighty Mouse Triple-Start Threaded Coupling General Information



Series 805



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 A, #20HD-7.5 A, #16-13 A, #12-23 A
Dielectric Withstanding Voltage	#23-750 VAC, #20HD-1000 VAC #12 and #16-1800 VAC
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +175° C.
Shock	300 g.
Vibration	37 g.
Shielding Effectiveness	55 dB minimum low frequency from 100MHz to 1000MHz. and 65 dB minimum high frequency from 1 GHz 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 μ inch 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) are subject to change without notice.