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Series 804 Push-Pull Mighty Mouse Plug Connector

804-001 & 804-002 Ordering Information



Quick Disconnect
These plugs snap securely into receptacle housings and release with a simple pull.

Two Keying Styles
A single master key provides fast mating in low-light situations, or specify three keys for more polarizing options.

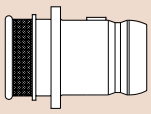
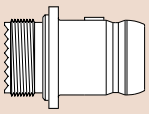
Two Shell Styles
Integral platform for shield attachment using the Band–Master™ ATS termination system, or an accessory thread for attaching a strain relief.

How To Order

Sample Part Number	804-001	-06	NF	9-19	S	A

Series (See Table I)	**804-001** = Plug with Banding Platform **804-002** = Plug with Accessory Thread
Shell Style	**-06** = Plug
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
Shell Size - Insert Arrangement	See Contact Arrangements Page G-2
Contact Type	**Connector supplied without Crimp contacts**: **A** = Pin, less contacts; **B** = Socket, less contacts **Connector supplied with contacts**: **P** = Pin Connector; **S** = Socket Connector **Connector Supplied with 30 AWG Crimp Barrel**: **G** = Pin, Crimp; **H** = Socket, Crimp 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.
Shell Key Positions (See Table II)	**Omit** = Single Master Key **A** = Normal **B** = Pos. B **C** = Pos. C **D** = Pos. D **E** = Pos. E **F** = Pos. F

Table I: Series

	
804-001 Plug with Banding Platform	**804-002** Plug with Accessory Thread

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

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Series 804 Push-Pull Mighty Mouse Quick-Disconnect Connectors

Contact Arrangements

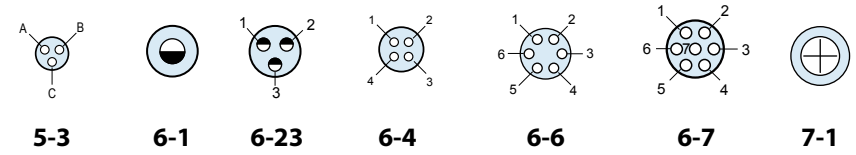
Contact Arrangements					
Contact Arr.	No. of Contacts				
	#23	#20	#20HD	#16	#12*
5-3	3				
6-1				1	
6-4	4				
6-6	6				
6-7	7				
6-23			3		
7-1					1
7-25			5		
7-10	10				
8-2				2	
8-28			8		
8-13	13				
8-200	4	2			
9-4				4	
9-210			10		
9-19	19				
9-200	4			2	
9-201	8	2			
10-2					2
10-5				5	
10-26	26				
10-200	12				1
10-201	4				2
10-202	8			2	
11-31	31				
12-2					2
12-3					3
12-7				7	
12-220			20		
12-37	37				
12-200	6				2
12-201	10				2
12-202	20			2	

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

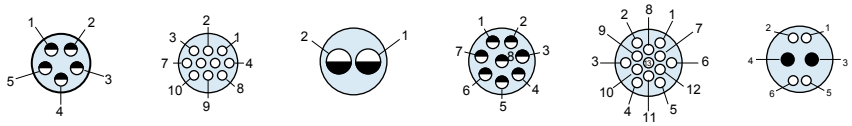
Contact Legend

#23 ○ #20HD ◓ #20 ● #16 ◒ #12 ⊕

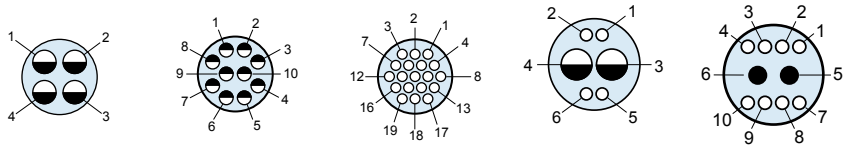
Mating Face View of Pin Connector
(socket connector numbers are reversed)



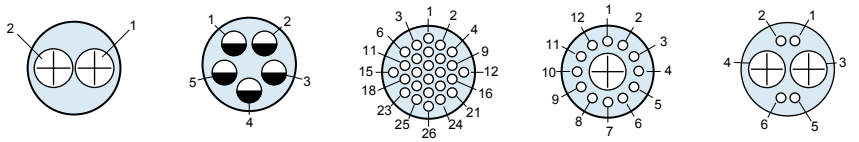
5-3 6-1 6-23 6-4 6-6 6-7 7-1



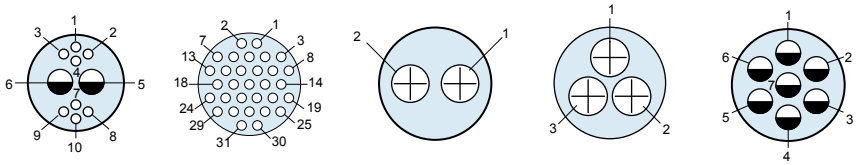
7-25 7-10 8-2 8-28 8-13 8-200



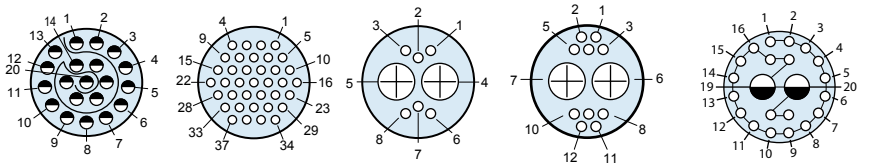
9-4 9-210 9-19 9-200 9-201



10-2 10-5 10-26 10-200 10-201



10-202 11-31 12-2 12-3 12-7



12-220 12-37 12-200 12-201 12-202

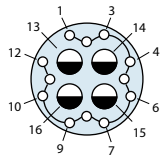
Dimensions in Inches (millimeters) are subject to change without notice.

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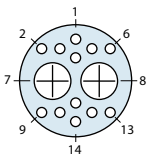
Contact Arrangements					
Contact Arr.	No. of Contacts				
	#23	#20	#20HD	#16	#12*
12-203	12			4	
12-204	12			2	
12-205	4				4
14-5					5
14-12				12	
14-235			35		
14-204	40			2	
14-205	32			4	
14-206	34				2
14-207	20				4
14-55	55				

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

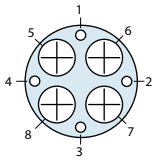
Mating Face View of Pin Connector
(socket connector numbers are reversed)



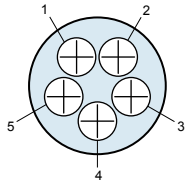
12-203



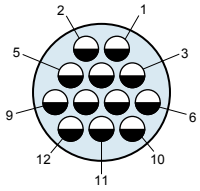
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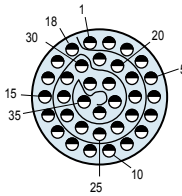
12-205



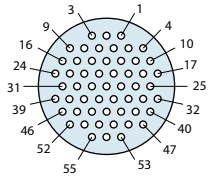
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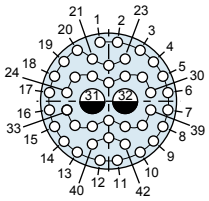
14-12



14-235



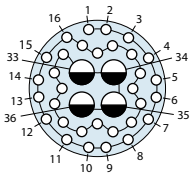
14-55



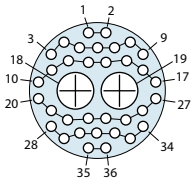
14-204

Contact Legend

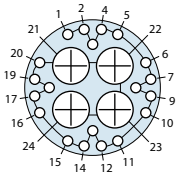
#23○ #20HD◒ #20● #16◒ #12⊕



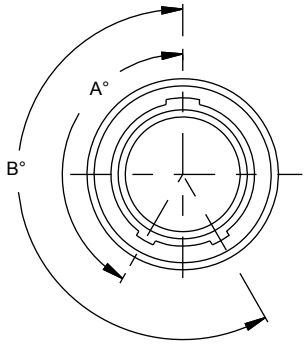
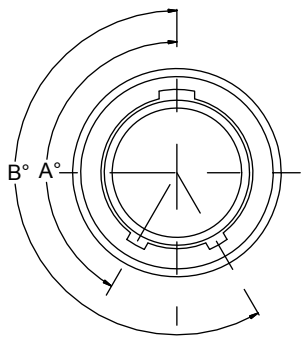
14-205



14-206



14-207

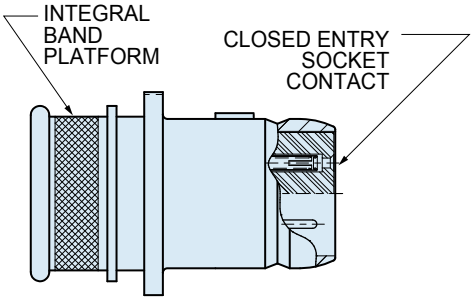
Alternate Key Positions		
Plug	Receptacle	
		
Pos.	A°	B°
A	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

Series 804 Demate Force		
Layout	Average Force	
	Pounds	Newtons
5-3	11	48
6-4	11	48
6-7	12	51
7-10	12	54
8-13	13	56
9-19	14	62
10-26	16	68
12-37	18	78
14-55	21	94

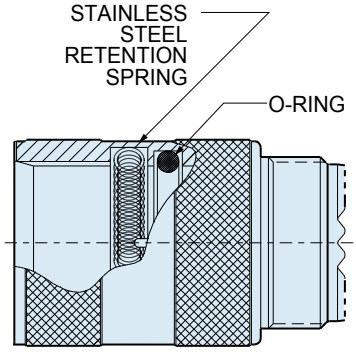
G

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SERIES 804 PLUG



SERIES 804 RECEPTACLE

- **Push-to-Mate, Pull-to-Unmate**
- **Gold-Plated tainless Steel Spring**
- **Crimp Rear Release Contacts**
- **Integral Band Platform**
- **Available with Size #12, #16, #20, #20HD and #23 Contacts**
- **Environmentally Sealed**

Series 804 Quick-Disconnect Offers Environmental Sealing and Rugged Design in a Lightweight, Push-Pull Package

Ideal for breakaway connections, the Series 804 QDC connector features a stainless steel spring in the receptacle and a detent on the plug body. Used for headsets, radios, weapons and other applications, the QDC Mighty Mouse meets immersion requirements and provides excellent durability. The gold-plated spring provides low shell-to-shell resistance for excellent EMI shielding. A fluorosilicone o-ring provides a watertight seal when mated.



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 [1]	60 dB minimum from 100MHz to 1000MHz.
Durability	2000 mating cycles
1. Tested with electroless nickel plating See Series 80 General Information for complete performance specs.	



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	Gold plated stainless steel
See Series 80 General Information for complete material and finish specs.	

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