

# SERIES 80 Mighty Mouse Connectors and Cables



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- 67 contact arrangements ranging from 1 – 130 contacts
- MIL-DTL-38999 caliber environmental, mechanical, and electrical performance
- Ultraminiature #23 contacts set on .076" centers
- Size #20, #20HD, #16, #12, #8 signal, power, fiber optic and shielded contacts
- Discrete connectors and turnkey cable assemblies



EMI/EMP filter-class connectors also available in every Mighty Mouse series

## Series 80 Mighty Mouse: Half the size and weight of MIL-DTL-38999 with comparable ratings, features, and performance

The Series 80 Mighty Mouse Connector is designed for use in high-reliability, mission-critical applications—from commercial aerospace to soldier systems—that require robust environmental and EMC performance as well as reduced size and weight. The Series 80 Mighty Mouse connector offers comparable performance to MIL-DTL-38999 interconnects with up to 71% weight and 52% size savings for similar contact layouts. The industry-standard Mighty Mouse is a mature connector series with a proven range of catalog and custom configurations.

### Series 80 Mighty Mouse Environmental Connectors

Series 800	Series 801	Series 802	Series 803	Series 804	Series 805
Light-Duty UNF Thread	Rugged Double-Start ACME Thread	3500 PSI AquaMouse	Fast-Mate Bayonet Coupling	Quick-Disconnect Push-Pull	Ratcheted Triple-Start

### Series 80 Mighty Mouse Hermetic Receptacles

Series 800	Series 801	Series 802	Series 803	Series 804	Series 805
•Vitreous glass sealing •1X10 <sup>-7</sup> cc/sec maximum helium leak rate		•Solder-cup and PC tail terminations •304L stainless steel shells		•Alloy 52 iron alloy contacts •Solder-mount, square flange or jam nut	

Series 80 Mighty Mouse Contact Arrangements													
Contact Size and Current Rating	Contact Quantity						Contact Arrangement*						
	#23	#20	#20HD	#16	#12	#8	Series 800	Series 801	Series 802	Series 803	Series 804	Series 805	
Size #23 Contacts 5 Amp Max. Current #22-#28 AWG  750 VAC DWV	3						5-3	5-3	5-3	5-3	5-3	N/A	
	4						6-4	6-4	6-4	6-4	6-4	8-4	
	6						6-6	6-6	6-6	6-6	6-6	8-6	
	7						6-7	6-7	6-7	6-7	6-7	8-7	
	10						7-10	7-10	7-10	7-10	7-10	9-10	
	13						8-13	8-13	8-13	8-13	8-13	10-13	
	19						9-19	9-19	9-19	9-19	9-19	11-19	
	26						10-26	10-26	10-26	10-26	10-26	12-26	
	31						N/A	11-31	N/A	N/A	11-31	13-31	
	37						12-37	13-37	12-37	12-37	12-37	15-37	
	55						N/A	16-55	14-55	14-55	14-55	18-55	
	85						N/A	17-85	15-85	N/A	N/A	19-85	
	100						N/A	19-100	N/A	N/A	N/A	21-100	
130						N/A	21-130	21-130	N/A	N/A	23-130		
Size #20HD Contacts 7.5 Amp Max. Current #20-#24 AWG  1000 VAC DWV		3					6-23	6-23	6-23	6-23	6-23	8-23	
		5					7-25	7-25	7-25	7-25	7-25	9-25	
		8					8-28	8-28	8-28	8-28	8-28	10-28	
		10					9-210	9-210	9-210	9-210	9-210	11-210	
		20					12-220	13-220	12-220	12-220	12-220	15-220	
		35					N/A	16-235	14-235	14-235	14-235	18-235	
		41					N/A	17-241	15-241	N/A	N/A	19-241	
		55					N/A	19-255	N/A	N/A	N/A	21-255	
		69					N/A	21-269	21-269	N/A	N/A	23-269	
	Size #16 Contacts 13 Amp Max. Current #16-#20 AWG  1800 VAC DWV			1				6-1	6-1	6-1	6-1	6-1	8-1
			2				8-2	8-2	8-2	8-2	8-2	10-2	
			4				9-4	9-4	9-4	9-4	9-4	11-4	
			5				10-5	10-5	10-5	10-5	10-5	12-5	
			7				12-7	13-7	12-7	12-7	12-7	15-7	
			12				N/A	16-12	14-12	14-12	14-12	18-12	
			14				N/A	17-14	15-14	N/A	N/A	19-14	
			19				N/A	19-19	N/A	N/A	N/A	21-19	
			22				N/A	21-22	21-22	N/A	N/A	23-22	
Size #12 Contacts 23 Amp Max. Current #12-#14 AWG  1800 VAC DWV					1			7-1	7-1	7-1	7-1	7-1	9-1
				2			10-2	10-2	10-2	10-2	10-2	12-2	
				2			12-2	13-2	12-2	12-2	12-2	15-2	
				3			12-3	13-3	12-3	12-3	12-3	15-3	
				5			N/A	16-5	14-5	14-5	14-5	18-5	
				7			N/A	17-7	15-7	N/A	N/A	19-7	
				12			N/A	21-12	21-12	N/A	N/A	23-12	
							N/A	21-12	21-12	N/A	N/A	23-12	
Size #8 Contacts 46 Amp Max. Current #8 AWG  1800 VAC DWV					1		N/A	8-1	N/A	N/A	N/A	10-1	
					2		N/A	16-2	N/A	N/A	N/A	18-2	
					3		N/A	17-3	N/A	N/A	N/A	19-3	
					4		N/A	19-4	N/A	N/A	N/A	21-4	
					5		N/A	21-5	N/A	N/A	N/A	23-5	
Combo Arrangements 750 VAC DWV	Size #23 and #12 Contacts	12				1	10-200	10-200	10-200	10-200	10-200	12-200	
		4				2	10-201	10-201	10-201	10-201	10-201	12-201	
	Size #23 and #16 Contacts	6				2	12-200	13-200	12-200	12-200	12-200	15-200	
		10				2	12-201	13-201	12-201	12-201	12-201	15-201	
	Size #23 and #20 Contacts	4			2		9-200	9-200	9-200	9-200	9-200	11-200	
		8			2		10-202	10-202	10-202	10-202	10-202	12-202	
	Combo Arrangements 1300 VAC DWV	Size #23 and #16 Contacts	4	2				8-200	8-200	8-200	8-200	8-200	10-200
			8	2				9-201	9-201	9-201	9-201	9-201	11-201
		Size #23 and #12 Contacts	20			2		12-202	13-202	12-202	12-202	12-202	15-202
			12			4		12-203	13-203	12-203	12-203	12-203	15-203
Size #23 and #8 Contacts		40			2		N/A	16-204	14-204	14-204	14-204	18-204	
		32			4		N/A	16-205	14-205	14-205	14-205	18-205	
Size #23 and #12 Contacts		40			4		N/A	17-203	15-203	N/A	N/A	19-203	
		12				2		12-204	13-204	12-204	12-204	12-204	15-204
Size #23 and #8 Contacts		4			4			12-205	13-205	12-205	12-205	12-205	15-205
		34			2			N/A	16-206	14-206	14-206	14-206	18-206
Size #23 and #8 Contacts	20			4			N/A	16-207	14-207	14-207	14-207	18-207	
	28			4			N/A	17-204	15-204	15-204	15-204	19-204	
	32					1	N/A	16-208	N/A	N/A	N/A	18-208	
	40					1	N/A	17-205	N/A	N/A	N/A	19-205	
	44					2	N/A	19-201	N/A	N/A	N/A	21-201	
	12				4		N/A	19-202	N/A	N/A	N/A	21-202	
28				4		N/A	21-200	N/A	N/A	N/A	23-200		

\* DWV rating is applicable to contact arrangements shown.