



2M MICRO-MINIATURE CONNECTORS

The 2M Series product line is designed for interconnect applications requiring high performance and reduced size and weight. This smaller, high density, lightweight connector far exceeds the competition in quality and performance levels. The 2M Series is a superior and versatile connector designed and tested to mil-spec standards, comparable to MIL-DTL-38999. 2M is interchangeable with Glenair's Mighty Mouse. The test results are available.



2M801 DUAL-START ACME THREADS

Full mating in 1 1/2 turns. Plug option for anti-decoupling mechanism. Plugs and receptacles come with either accessory threads or integral backshells. Includes PCB and hermetic receptacles, and 2M801 Dualok plugs. Contact terminations include crimp, PC tail, and solder cup, with others upon request. Custom and filtered configurations are available.

2M801-007		-16		NF		6-7		P		A					
Series		Shell Style		Service Class		Shell Size - Insert Arrg.		Contact Type		Alternate Position					
Integral Backshell for Direct Attachment of Cable Shield and Overmold		For Shell Styles 2M801-007, 2M801-008		See Service class/Finish table on next page		See Insert Arrangements on next page		P Pin Contacts S Socket Contacts		Keying					
Plugs with rear accessory thread		-16 Plug with Anti-Decoupling Spring		For Hermetic connectors or PC contacts or Solder contacts please contact your Local Newark Sales office.						Key Rotation					
Receptacle with Integral Backshell for Direct Attachment of Cable Shield and Overmold		-26 Self-Locking Plug with Ratchet Mechanism								Key Position		A		B	
2M801-009		For Shell Styles 2M803-009, 2M803-010								A		150°		210°	
2M801-010		-01 In-Line								B		75°		210°	
Receptacle with Accessory Thread		-02 Square Flange								C		95°		230°	
		-07 Jam Nut								D		140°		275°	
										E		75°		275°	
										F		95°		210°	

See rotational views on next page

2M803 1/4 TURN BAYONET COUPLING

1/4-turn full mate bayonet coupling. Plugs and receptacles come with either accessory threads or integral backshells. Includes PCB and hermetic receptacles. Contact terminations include crimp, PC tail, and solder cup, with others upon request. Custom and filtered configurations are available.

2M803-001		-06		NF		6-7		P		N					
Series		Shell Style		Service Class		Shell Size - Insert Arrg.		Contact Type		Alternate Position					
Plug with Crimp Contact, Integral Backshell for Direct Attachment of Cable Shield and Overmold		For Shell Styles 2M803-001, 2M803-002		See Service class/Finish table on next page		See Insert Arrangements on next page		P Pin Contacts S Socket Contacts		Keying					
Plug with Crimp Contact, Rear-Accessory Thread		-06 Plug		For Hermetic connectors or PC contacts or Solder contacts please contact your Local Newark Sales office.						Key Rotation					
Receptacle with Integral Backshell for Direct Attachment of Cable Shield and Overmold		For Shell Styles 2M803-003, 2M803-004								Key Position		A		B	
2M803-002		-07 Jam Nut								N		150°		210°	
2M803-003		-02 Square Flange								X		75°		210°	
2M803-004		-01 In-Line								Y		95°		230°	
										Z		140°		275°	

See rotational views on next page

2M804 PUSH-PULL QUICK-DISCONNECT

Push-to-mate, pull-to-unmate connector with EMI spring installed in the receptacle for improved EMI. Includes Plug Panel Mount, PCB, and hermetic receptacles. Contact terminations include crimp, PC tail, and solder cup, with others upon request. Custom and filtered configurations are available.

2M804-001		-06		ZNU		6-7		P		A					
Series		Shell Style		Service Class		Shell Size - Insert Arrg.		Contact Type		Alternate Position					
Plug with Integral Backshell for Direct Attachment of Cable Shield and Overmold		For Shell Styles 2M804-001, 2M804-002		See Service class/Finish table on next page		See Insert Arrangements on next page		P Pin Contacts S Socket Contacts		Keying					
Plug with Accessory Thread		-06 Plug		For Hermetic connectors or PC contacts or Solder contacts please contact your Local Newark Sales office.						Key Rotation					
Receptacle with Integral Backshell for Direct Attachment of Cable Shield and Overmold		For Shell Styles 2M804-003, 2M804-004								Key Position		A		B	
2M804-002		-00 Jam Nut for Front Panel Mounting								Omit		Single Master Key			
2M804-003		-01 In-Line for Free-Hanging Cable								A		75°		210°	
2M804-004		-07 Jam Nut for Rear Panel Mounting								B		75°		210°	
										C		95°		230°	
										D		140°		275°	

See rotational views on next page

2M805 TRI-START THREADED COUPLING

Offers the best EMI and vibration performance among the 2M connector family. Utilizes Tri-Start thread with 1-turn full mate coupling. EMI ground strap and shell-to-shell bottoming provide superior EMI shielding. Includes PCB and hermetic receptacles. Contact terminations include crimp, PC tail, and solder cup, with others upon request. Custom and filtered configurations are available.

2M805-001		-16		C		15-37		S		A					
Series		Shell Style		Service Class		Shell Size - Insert Arrg.		Contact Type		Alternate Position					
Plug with Integral Backshell for Direct Attachment of Cable Shield and Overmold		For Shell Styles 2M805-001, 2M805-002		See Service class/Finish table on next page		See Insert Arrangements on next page		P Pin Contacts S Socket Contacts		Keying					
Plug with Accessory Thread		-16 Plug Connector with Ratcheting Anti-Decoupling Mechanism		For Hermetic connectors or PC contacts or Solder contacts please contact your Local Newark Sales office.						Key Rotation					
Receptacle with Integral Backshell for Direct Attachment of Cable Shield and Overmold		For Shell Styles 2M805-003, 2M805-004								Key Position		A		B	
2M805-002		-01 In-Line Receptacle								Normal A		150°		210°	
2M805-003		-02 Square Flange Receptacle								B		75°		210°	
2M805-004		-07 Jam Nut for Rear Panel Mounting Receptacle								C		95°		230°	
										D		140°		275°	

See rotational views on next page

INSERT ARRANGEMENTS

Insert Arrangements									
Contact Size	Contact Quantity					Insert Arrangement			
	#23	#20	#20HD	#16	#12	2M801	2M803	2M804	2M805
Size #23 Contacts 5 Amp Max.Current 500 VAC #23-#28 AWG	3					5-3	5-3	5-3	NA
	4					6-4	6-4	6-4	8-4
	6					6-6	6-6	6-6	8-6
	7					6-7	6-7	6-7	8-7
	10					7-10	7-10	7-10	9-10
	13					8-13	8-13	8-13	10-13
	19					9-19	9-19	9-19	11-19
	26					10-26	10-26	10-26	12-26
	37					13-37	12-37	12-37	15-37
	55					16-55	14-55	14-55	18-55
85					17-85	NA	15-85	19-85	
130					21-130	NA	NA	23-130	
Size #20HD Contacts 7.5 Amp Max.Current 750 VAC #20-#24 AWG.			3			6-23	6-23	6-23	8-23
			5			7-25	7-25	7-25	9-25
			8			8-28	8-28	8-28	10-28
			10			9-210	9-210	9-210	11-210
			20			13-220	12-220	12-220	15-220
			35			16-235	14-235	14-235	18-235
			41			17-241	NA	NA	19-241
		69			21-269	NA	NA	23-269	
Size #16 Contacts 13 Amp Max.Current 1800 VAC #16-#20 AWG				1		6-1	6-1	6-1	8-1
				2		8-2	8-2	8-2	10-2
				4		9-4	9-4	9-4	11-4
				5		10-5	10-5	10-5	12-5
				7		13-7	12-7	12-7	15-7
				12		16-12	14-12	14-12	18-12
				14		17-14	NA	NA	19-14
				22		21-22	NA	NA	23-22
Size #12 Contacts 23 Amp Max.Current 1800 VAC #12-14 AWG					1	7-1	7-1	7-1	9-1
					2	10-2	10-2	10-2	12-2
					2	13-2	12-2	12-2	15-2
					3	13-3	12-3	12-3	15-3
					5	16-5	14-5	14-5	18-5
					7	17-7	NA	NA	19-7
					12	21-12	NA	NA	23-12
Insert Arrangements with Mixed Size (Combo) Layouts*	4	2				8-200	8-200	8-200	10-200
	8	2				9-201	9-201	9-201	11-201
	4			2		9-200	9-200	9-200	11-200
	8			2		10-202	10-202	10-202	12-202
	4				2	10-201	10-201	10-201	12-201
	6				2	13-200	12-200	12-200	15-200
	10				2	13-201	12-201	12-201	15-201
12				1	10-200	10-200	10-200	12-200	

*See www.newark.com for AMP max and VAC.

SERVICE CLASS / FINISHES

Service Class		
CALL OUT	ROHS	FINISH
C		ALUMINUM/BLACK ANODIZE (NON-CONDUCTIVE)
M		ALUMINUM/ELECTROLESS NICKEL
NF		ALUMINUM/CADMIUM WITH OLIVE DRAB CHROMATE
MT		ALUMINUM/NICKEL-PTFE (DURMALON)
Z1		STAINLESS STEEL/PASSIVATED
ZN		ALUMINUM/ZINC-NICKEL W/OLIVE DRAB CHROMATE
ZNU		ALUMINUM/ZINC-NICKEL WITH BLACK CHROMATE

ROTATIONAL VIEWS

