



## Lamina<sup>INC</sup> Marsh Mellow<sup>®</sup> Design Data

**2 1/2" O.D. x 3/4" I.D.**  
**(MAX. LENGTH = 20 IN.)**

Lamina Order Number	MM250-150		MM250-200		MM250-250		MM250-325		MM250-400		MM250-500		MM250-600	
Free Length Inch	1.50		2.00		2.50		3.25		4.00		5.00		6.00	
Minimum Compressed Length (Free Length - Max. Compression)	.90		1.20		1.50		1.95		2.40		3.00		3.60	
Maximum Compressed Dia. (@ Max. Compression)	3.20		3.20		3.20		3.20		3.20		3.20		3.20	
Maximum Compression	.60		.80		1.00		1.30		1.60		2.00		2.40	
Total Spring Force Per 1/8" Compression  Pounds	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force
	.25	1,080	.25	750	.25	570	.25	420	.25	330	.25	250	.25	170
	.50	3,000	.50	1,750	.50	1,300	.50	950	.50	750	.50	570	.50	500
	.60	5,400	.75	4,600	.75	2,400	.75	1,570	.75	1,200	.75	920	.75	750
			.80	5,400	1.00	5,400	1.00	2,600	1.00	1,750	1.00	1,300	1.00	1,010
							1.25	4,600	1.25	2,600	1.25	1,750	1.25	1,360
							1.30	5,400	1.50	4,600	1.50	2,400	1.50	1,750
									1.60	5,400	1.75	3,420	1.75	2,240
											2.00	5,400	2.00	3,000
													2.25	4,600
												2.40	5,400	

**3 1/4" O.D. x 1" I.D.**

Lamina Order Number	MM325-250		MM325-300		MM325-325		MM325-350		MM325-400		MM325-450	
Free Length Inch	2.00		3.00		3.25		3.50		4.00		4.50	
Minimum Compressed Length (Free Length - Max. Compression)	1.50		1.80		1.95		2.10		2.40		2.70	
Maximum Compressed Dia. (@ Max. Compression)	4.16		4.16		4.16		4.16		4.16		4.16	
Maximum Compression	1.00		1.20		1.30		1.40		1.60		1.80	
Total Spring Force Per 1/8" Compression  Pounds	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force
	.25	950	.25	750	.25	800	.25	700	.25	600	.25	400
	.50	2,200	.50	1,700	.50	1,600	.50	1,500	.50	1,260	.50	900
	.75	3,900	.75	3,000	.75	2,550	.75	2,300	.75	2,000	.75	1,600
	1.00	8,200	1.00	4,700	1.00	4,000	1.00	3,500	1.00	2,850	1.00	2,200
			1.20	8,500	1.25	7,000	1.25	5,600	1.25	4,150	1.25	3,100
					1.30	8,200	1.40	7,900	1.50	6,400	1.50	4,300
									1.60	8,200	1.75	6,500
											1.80	7,800

**3 1/4" O.D. x 1" I.D.**  
**(MAX. LENGTH = 30 IN.)**

Lamina Order Number	MM325-500		MM325-550		MM325-600		MM325-650		MM325-700	
Free Length Inch	5.00		5.50		6.00		6.50		7.00	
Minimum Compressed Length (Free Length - Max. Compression)	3.00		3.30		3.60		3.90		4.20	
Maximum Compressed Dia. (@ Max. Compression)	4.16		4.16		4.16		4.16		4.16	
Maximum Compression	2.00		2.20		2.40		2.60		2.80	
Total Spring Force Per 1/8" Compression  Pounds	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force	Stroke	Force
	.25	320	.25	250	.25	230	.25	220	.25	200
	.50	630	.50	750	.50	700	.50	650	.50	580
	.75	1,400	.75	1,200	.75	1,100	.75	870	.75	940
	1.00	1,950	1.00	1,700	1.00	1,600	1.00	1,400	1.00	1,300
	1.25	2,600	1.25	2,300	1.25	2,100	1.25	1,900	1.25	1,730
	1.50	3,500	1.50	3,000	1.50	2,650	1.50	2,400	1.50	2,200
	1.75	4,850	1.75	4,000	1.75	3,400	1.75	3,000	1.75	2,700
	2.00	7,500	2.00	5,200	2.00	4,500	2.00	3,800	2.00	3,300
			2.20	7,800	2.25	6,000	2.25	4,900	2.25	4,100
					2.40	7,500	2.50	6,500	2.50	5,250
							2.60	7,800	2.75	7,000
									2.80	7,500