

MOLDED
SINGLE STRAND
SELF-LUBRICATING

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➤ **MATERIAL:**

Acetal Resin, Black

➤ **LUBRICATION**

Surface penetration with oil has been provided and is considered to be sufficient for average service. Some applications may be found to require additional lubrication.

➤ **OPERATING TEMPERATURE**

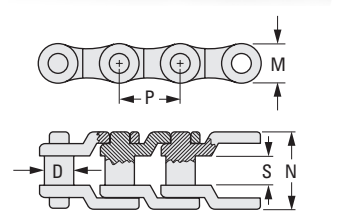
The chain and sprockets have been stress-relieved and have operating capabilities over the range of: -40°F to +250°F. Sustained temperatures above +180°F not recommended. Strength derating applies at elevated temperatures.

➤ **OPERATING SPEED**

To 1000 feet per minute around 8-tooth sprockets; larger sizes higher.

➤ **WEIGHT**

Approximately 1 oz. per 15 feet.



INCH COMPONENT

Catalog Number	P Pitch (± 1/2%)	Links Per Foot	D	S	M	N	Weight Per Foot oz.	Operating Tension Load lbf
A 6M 7-12 - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	.1227	98	.060	.062	.082	.162	.067	2

Length Code	Length Feet
001	1
002	2
003	3
004	4
005	5
006	6
007	7

Length Code	Length Feet
008	8
009	9
010	10
020	20
024	24
050	50
100	100

Two Ways to Order:

1. Use Catalog Number **A 6M 7-12** when specifying any length up to 100 feet (Max.). Priced Per Foot
2. To purchase standard lengths add **Length Code** to Catalog Number. Priced Per Each

SERVICE LIFE

Roller chains have very long service life if operated within the recommended temperature range; e.g., for 10 teeth sprocket with average running tension of 8 ozf and maximum allowable elongation of 0.85%, the service life of the chain is approximately 3.3 million cycles.

QUALITY CONTROL

100% inspection for momentary break strength (7 lbf minimum), thickness, width, pitch dimension and flexibility.

APPLICATIONS-LIMITATIONS

These components are designed especially for requirements found among mechanical drives in the field of instrumentation. Servo drives to stylus or pen carriages in recorders and X-Y plotters, chart roll drives and counter drives are some of the principal applications.

Operating speed is seldom a limiting factor; however, the load, inertial impact and elasticity factors must be given due consideration and evaluated in a typical prototype before final application.

The data provided herein are furnished only for general evaluation and are not necessarily indicative of specific use adaptability.

THE DESIGN

Unit-link design eliminates need for connecting link and makes length adjustable by snap-together assembly. Either side of the chain will run on the sprockets.

LOAD TENSION

Operates running tension loads up to 2 lbf. Sustained static tension such as with spring loaded idlers not recommended. Means of limiting torque and tension should be provided. See elasticity table - long term tension gives greater elongation.

MOMENTARY ELASTICITY TABLE

Tension ozf	Elongation Percent	Tension ozf	Elongation Percent
1	.10	12	.53
2	.16	16	.66
4	.26	32	1.10
8	.40	64	2.00

CENTER DISTANCES

Should be adjustable, or adjustable position idlers incorporated to compensate for pitch variation and wear.

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