

MOLDED
SINGLE STRAND
SELF-LUBRICATING

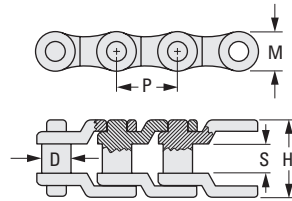
› **MATERIAL:**
Acetal Resin, Black

› **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°C to +121°C. Sustained temperatures above +82°C not recommended. Strength derating applies at elevated temperatures.

› **OPERATING SPEED**
To 5.1 m/sec around 8-tooth sprockets; larger sizes higher.

› **WEIGHT**
Approximately 0.031 kg / 5 meters



METRIC COMPONENT

Catalog Number	P Pitch (± 1/2%)	Links Per Meter	D	S	M	H	Weight Per Meter kg	Operating Tension Load kgf
A 6M 7M12 - <input type="checkbox"/> <input type="checkbox"/>	3.12	321	1.52	1.57	2.08	4.12	0.006	0.91

Length Code	Length Meter
01	1
02	2
03	3
04	4
05	5
06	6

Length Code	Length Meter
07	7
08	8
09	9
10	10
20	20
30	30

Two Ways to Order:

1. Use Catalog Number **A 6M 7M12** when specifying any length up to 30 meters (Max.). Priced Per Meter
2. To purchase standard lengths add **Length Code** to Catalog Number. Priced Per Each

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 0.91 kgf. 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 kgf	Elongation	Tension kgf	Elongation
0.05	0.145%	0.8	1.0%
0.1	0.237%	1.2	1.39%
0.3	0.483%	1.5	1.68%
0.5	0.7%	1.8	1.98%

CENTER DISTANCES

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

SERVICE LIFE

Accelerated life tests at +22°C where 2% elongation represented end of life have given:
(a) 135,600 N • m of work per 25.4 mm (1 in.) of chain
(b) 0.06 horsepower transfer for 10 hours.

QUALITY CONTROL

100% inspection for momentary break strength (3.2 kgf 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.