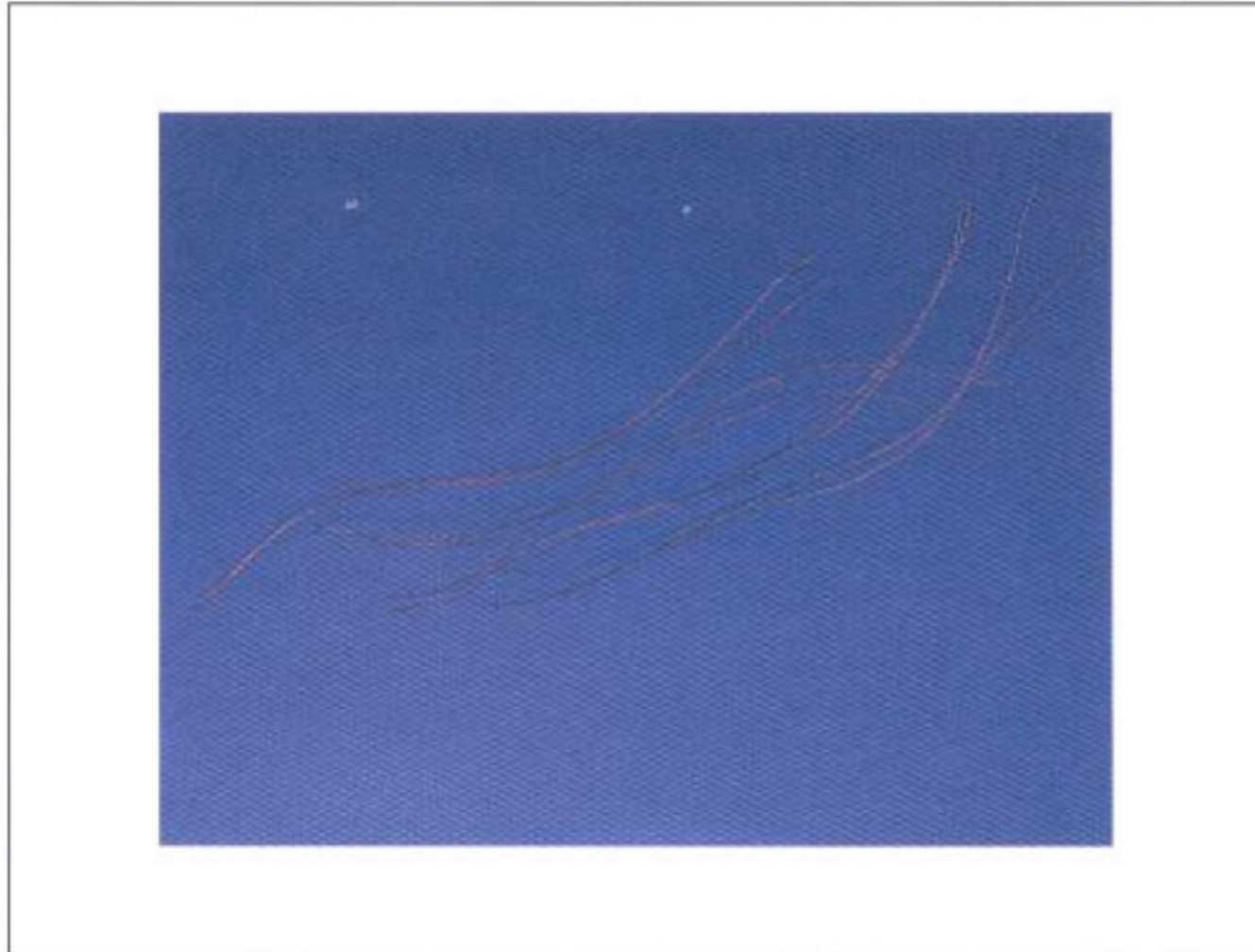
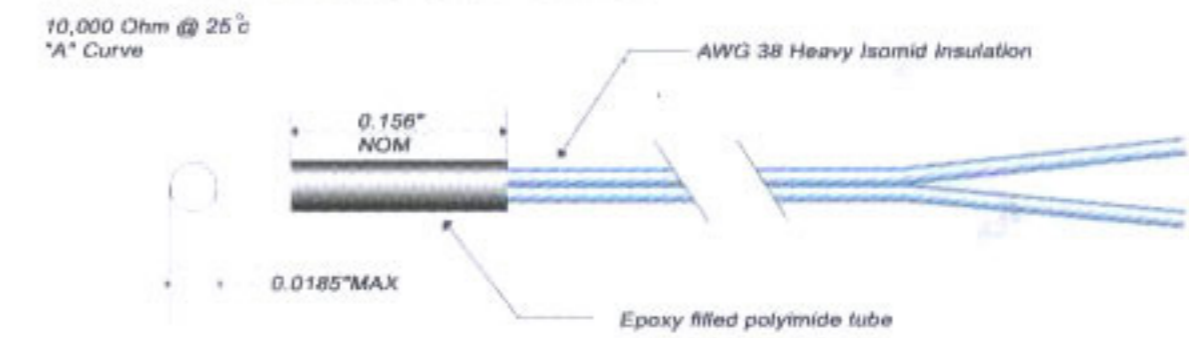


# Life Sciences & Micro Temperature Probes

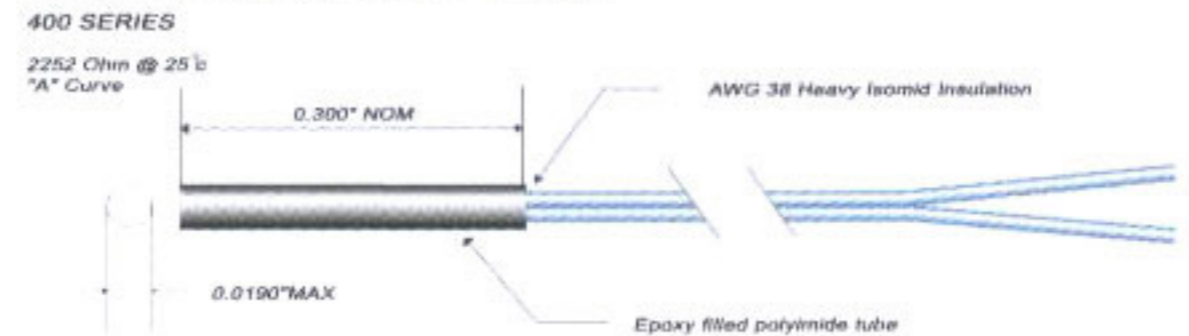
LSMN Micro Series 0.0185" & 0.0190" Max. dia. Capability to .0175" dia.



LSMC 10K  
10,000 Ohms at 25°C "A" Curve



LSMN 400 Series  
2252 Ohms at 25°C "A" Curve



## FEATURES:

- Interchangeable or Point Matched tolerances
- Fast response accuracy to  $\pm 0.1^{\circ}\text{C}$
- Custom designs at a low cost
- Potted with epoxy in a polyimide tube
- Operatable with YSI 400 and 700 temperature monitor instruments.

These tiny thermistors can be used in Life Science applications that require fast response and small size. Since they are available in many custom options they can be used in unlimited temperature sensing applications in any industry.

## SPECIFICATIONS

### Temperature rating/ recommended operating ranges

LSMN Series thermistors may be intermittently cycled at temperatures from  $-50^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ . Optimum stability is achieved when they are stored at temperatures less than  $50^{\circ}\text{C}$  and operated continuously in temperatures less than  $100^{\circ}\text{C}$ . For Interchangeable LSMN Series thermistors optimum stability is achieved when they are operated at temperatures within the specified temperature range.

### Tolerances

- $\pm 0.10^{\circ}\text{C}$
- $\pm 0.20^{\circ}\text{C}$
- $\pm 0.25^{\circ}\text{C}$
- $\pm 0.50^{\circ}\text{C}$
- $\pm 1.00^{\circ}\text{C}$
- $\pm 1\%$
- $\pm 2\%$
- $\pm 5\%$
- $\pm 10\%$

### R/T curves

LSMC Series is manufactured with "A" R/T curve material. Detailed curve material information on pages 23-25.

### Custom options

Lead materials:  
AWG 38 nickel alloy or copper conductors with heavy isomid insulation, parallel bonded configuration. Parylene coating is available which provides a thin coating resistant to corrosion and humidity.

### Dissipation constant

0.3mW/ $^{\circ}\text{C}$  in still air  
2.5mW/ $^{\circ}\text{C}$  in stirred oil

### Thermal time constant

Typically 0.25 second in stirred oil

## To order specify:

- Series LSMC
- Tolerance
- Lead material and length