

A06 | PFA Sheath Miniature RTD w/Cable Extension

Specifications

The A06 is a uniquely designed RTD incorporating an extremely small profile with a completely non-metallic PFA sheath. Originally designed for temperature measurements inside small vials, the A06 handles both cryogenic and elevated temperatures where an extended cable length is necessary, making it an ideal sensor for lab or small sample applications. The one-piece flexible sheath offers a diameter of just 0.080" and easy cleanability with no place for contaminants to "hide". The sheath design maximizes response time by eliminating the thermal mass of a traditional stainless steel sheath.

Features and Benefits:

- **Application:** Direct or indirect immersion in cryogenic and elevated temperature applications. Easily "snaked" into difficult to reach areas – extension cable for access to nearly anywhere.
- **Accuracy:** Precision, 0.05%
- **Sheath:** 0.080" diameter, PFA
- **Sensitive Length:** 0.30"
- **Element/Lead wire Configuration:** Single 3 or 4 wire
- **Cable:** 32 AWG PTFE insulated wires with integrated PFA sheath and white PFA cable extension
- **Cleanability:** PFA sheath with no crevices to trap contaminants

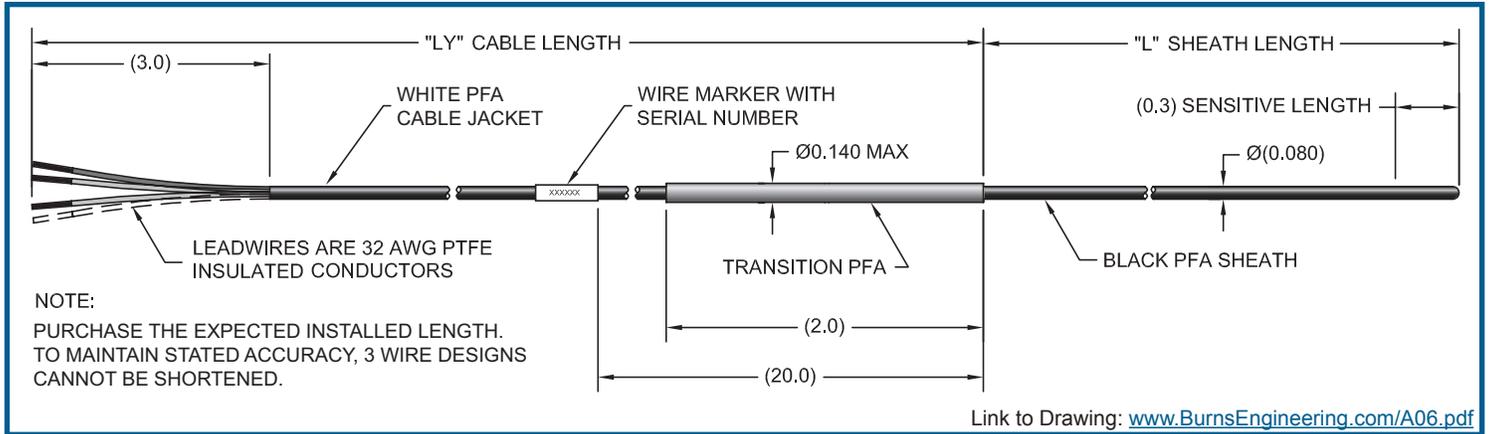
Specifications:

- **Element Configuration:** Single, 100 ohms at 0°C, 0.00385 ohm/ohm/°C nominal alpha
- **Temperature Range:** Sensor and Cable
 - » Precision Accuracy: -196°C to 200°C
- **R0 interchangeability:**
 - » Precision Accuracy: $R_0 \pm 0.05$ ohms
- **Repeatability and Hysteresis:** Maximum change at 0°C after 10 thermal cycles over the operating temperature range.
 - » Precision Accuracy: $\pm 0.05^\circ\text{C}$ (0.02Ω)
- **Long Term Stability:** Maximum change at 0°C after 1000 hour soak at 200°C
 - » Precision Accuracy: $\pm 0.03^\circ\text{C}$ (0.01Ω)
- **Insulation Resistance:** 10 mega-ohms minimum at 100 VDC at room temperature



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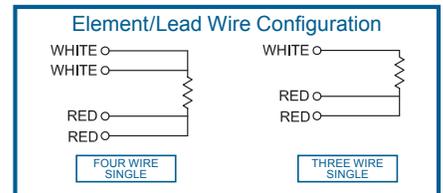
Ordering Information



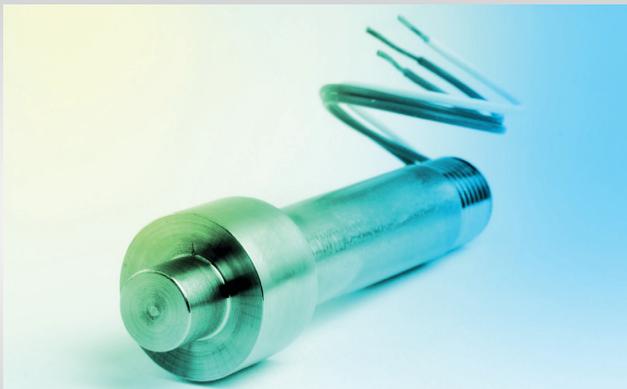
All dimensions in inches

A06 PFA Sheath Miniature RTD with Cable	
<u>RTD Accuracy</u>	
05	Precision, +/- 0.05% of resistance at 0 degrees C
<u>Element Configuration</u>	
A	Three wire single
B	Four wire single
<u>"L" PFA Sheath Length</u>	
120	12.0 inches
240	24.0 inches
360	36.0 inches
<u>"LY" Cable Length</u>	
-024	24.0 inches
-120	120.0 inches
Specify cable length in 12 inch increments	

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Example Part Number: A06-05B240-120



Customized miniature sensors, designed for your application.

The model 18378 Mini Flush Mount RTD
Offers minimal immersion and enhanced surface sensitivity in a compact package. The 18378 is designed for process tanks and surface measurement applications.

Contact us to discuss your specific application.