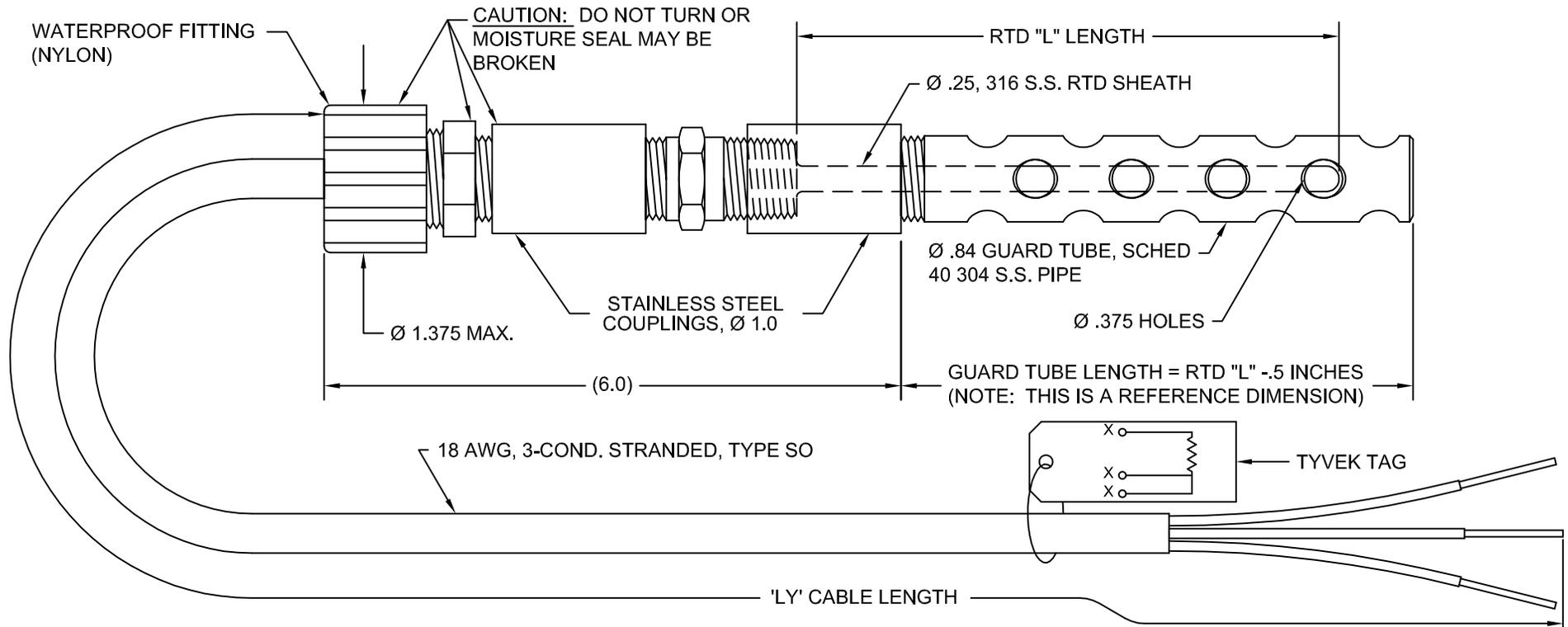


APPLICATION: THE NO. 10313 UNDERWATER PLATINUM RESISTANCE THERMOMETER IS DESIGNED FOR COMPLETE SUBMERSION UNDER RIVERS, PONDS, ETC. THE Ø .25 SHEATH IS PROTECTED BY A PERFORATED GUARD TUBE. THE GUARD TUBE AND COUPLING ARE REMOVABLE. THE 18 AWG NEOPRENE INSULATED CABLE IS COMPLETELY WATERPROOF AND HEAVY DUTY TO WITHSTAND ADVERSE CONDITIONS.

SYM	ECO NUMBER	DATE	APPD
H	ECO 1632	10-14-85	WHO
I	ECO 5054	5-30-02	JPZ
J	ECO 5642	6/08/04	JPZ
K	ECO 5802	12-1-05	JPZ



BURNS #1 CURVE $\alpha = .003902$ PLATINUM	BURNS DIN STANDARD CURVE $\alpha = .00385$ PLATINUM
<p>SINGLE ELEMENT (3-WIRE)</p> <p>GREEN ○ — 1 = 100 OHMS ±0.1Ω AT 0°C</p> <p>OR</p> <p>WHITE ○ — -1P = 100 OHMS ±0.05Ω AT 0°C</p> <p>BLACK ○ —</p>	<p>SINGLE ELEMENT (3-WIRE)</p> <p>BLACK ○ — -21 = 100 OHMS ±0.1Ω AT 0°C</p> <p>OR</p> <p>WHITE ○ — -21P = 100 OHMS ±0.05Ω AT 0°C</p> <p>GREEN ○ —</p>
<p>SINGLE ELEMENT (4-WIRE)</p> <p>GREEN ○ — -1B = 100 OHMS ±0.1Ω AT 0°C</p> <p>OR</p> <p>WHITE ○ — -1PB = 100 OHMS ±0.05Ω AT 0°C</p> <p>RED ○ —</p> <p>BLACK ○ —</p>	<p>SINGLE ELEMENT (4-WIRE)</p> <p>BLACK ○ — -21B = 100 OHMS ±0.1Ω AT 0°C</p> <p>OR</p> <p>WHITE ○ — -21PB = 100 OHMS ±0.05Ω AT 0°C</p> <p>RED ○ —</p> <p>GREEN ○ —</p>

NOTE: SEE SHEET #2 FOR ORDERING INFORMATION.

<p><b>-TOLERANCES-</b> UNLESS OTHERWISE SPECIFIED</p> <p>ALL DIMENSION IN INCHES</p> <p>FRACTIONS = ±1/16 ONE PLACE .X = ±.050 TWO PLACE .XX = ±.010 THREE PLACE .XXX = ±.005</p> <p>ALL ANGLES ARE ± 0°30'</p> <p>SHEATH AND LEAD LENGTHS PER BURNS P/N 17026</p> <p>UNLESS OTHERWISE NOTED: ALL SURFACES 125 ✓ ALL FINISHES IN MICRO INCHES</p>		 <p><b>BURNS ENGINEERING</b></p>		<p>SCALE N.T.S.</p> <table border="1"> <tr> <td>DFTM</td> <td>MJA</td> <td>8-13-75</td> </tr> <tr> <td>CHKD</td> <td>AMY</td> <td>8-15-75</td> </tr> <tr> <td>APPD</td> <td>KG</td> <td>11-19-75</td> </tr> </table>			DFTM	MJA	8-13-75	CHKD	AMY	8-15-75	APPD	KG	11-19-75	<p>MOUNTING AND OUTLINE DRAWING, PLATINUM RESISTANCE THERMOMETER, HEAVY DUTY, UNDERWATER STYLE</p>		
DFTM	MJA	8-13-75																
CHKD	AMY	8-15-75																
APPD	KG	11-19-75																
<p>DIMENSIONS IN INCHES REF: 13795-* 18827-*</p>		<p>SHEET 1 OF 2</p>	<p>SIZE A</p>	<p>DRAWING NUMBER 10313-*</p>	<p>REV K</p>													

ORDERING INFORMATION:

10313	HEAVY DUTY UNDERWATER ELEMENT, STAINLESS STEEL SHEATH, 1/2" NPT MOUNTING THREADS, PLATINUM ELEMENT, ±0.10% ACCURACY		
	ELEMENT RESISTANCE AT 0°C		
	-1 -1B -21 -21B	100 OHMS BURNS #1 CURVE .003902 Ω/Ω/°C (3-WIRE) 100 OHMS BURNS #1 CURVE .003902 Ω/Ω/°C (TRUE 4-WIRE) 100 OHMS DIN STANDARD CURVE .00385 Ω/Ω/°C (3-WIRE) 100 OHMS DIN STANDARD CURVE .00385 Ω/Ω/°C (TRUE 4-WIRE) NOTE: IF PRECISION ACCURACY (±.05Ω AT 0°C) IS REQUIRED, ADD THE LETTER 'P', e.g; 21P OR 21PB IF FOUR WIRE = 100 OHM PRT (PRECISION ACCURACY α = .00385)	
		RTD "L" LENGTH	
	-035 -055 -085 -115 -175 -235 -aaa	3.5" "L" LENGTH 5.5" "L" LENGTH 8.5" "L" LENGTH 11.5" "L" LENGTH 17.5" "L" LENGTH 23.5" "L" LENGTH SPECIFY "L" LENGTH IN INCHES (EXAMPLE: 090 = 9.0", 240 = 24.0")	
		18 AWG S.O. CABLE STRANDED	
		-LY	SPECIFY "LY" CABLE LENGTH IN FEET (EXAMPLE: 50 = 50 FEET)
10313	-21	-055	-50 TYPICAL PART NUMBER

NOTE: FOR SAME MODEL LESS GUARD TUBE, CHANGE 10313-\* TO 10821-\*.  
IF DUAL PRT IS REQUIRED, ORDER PART NUMBER 15112-\*.



**BURNS**  
ENGINEERING

SHEET 2  
OF 2

SIZE  
A

DRAWING NUMBER  
10313-\*

REV  
K