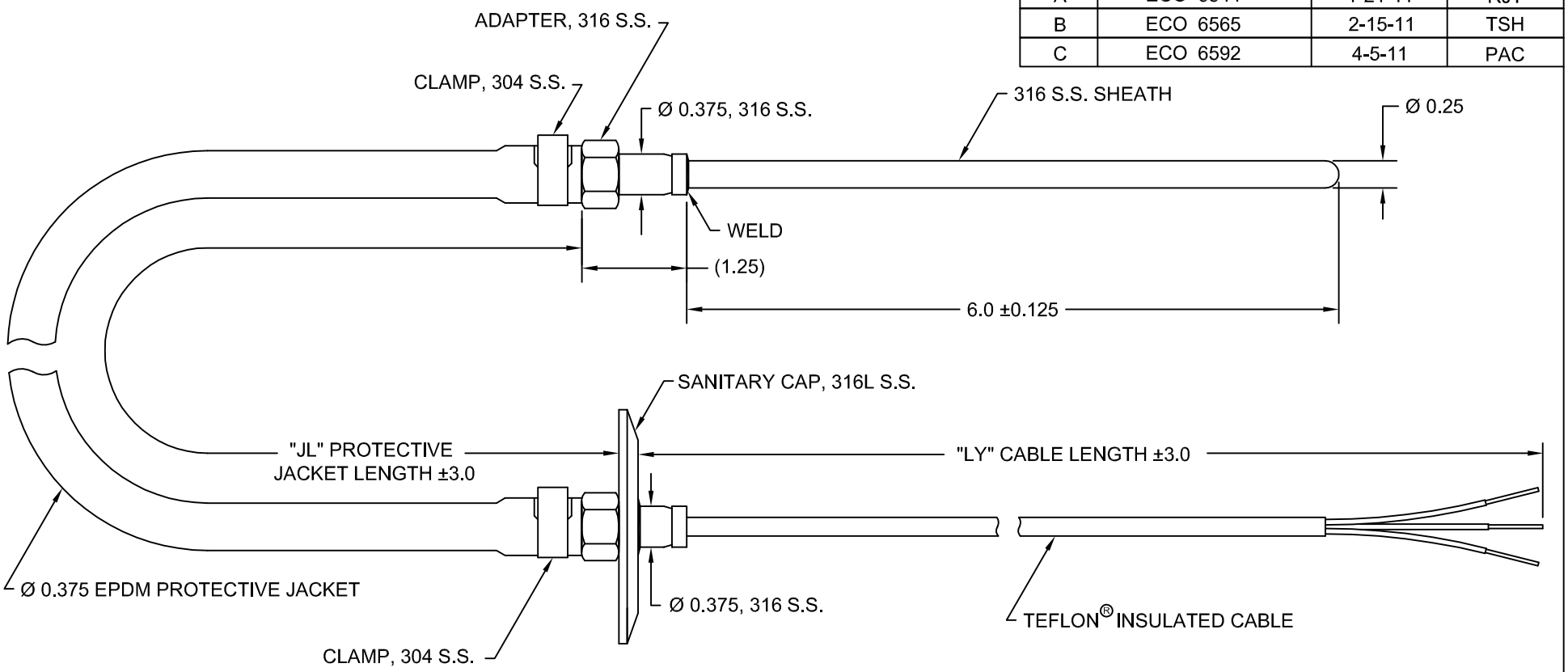
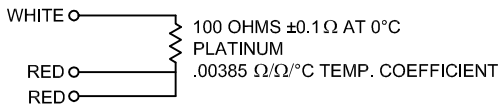
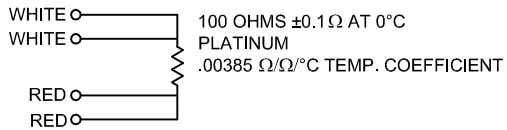
SYM	ECO NUMBER	DATE	APPD
A	ECO 6544	1-21-11	RJT
B	ECO 6565	2-15-11	TSH
C	ECO 6592	4-5-11	PAC



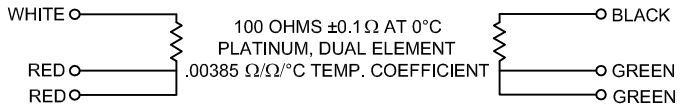
ELEMENT/LEAD WIRE CONFIGURATION: (A SINGLE THREE WIRE)



ELEMENT/LEAD WIRE CONFIGURATION: (B SINGLE FOUR WIRE)



ELEMENT/LEAD WIRE CONFIGURATION: (C DUAL THREE WIRE)



NOTES:

1. SEE SHEET #2 FOR ORDERING INFORMATION.
   SEE SHEET #3 FOR PERFORMANCE INFORMATION
2. TEMPERATURE RANGE = -50 TO 200°C

-TOLERANCES-
UNLESS OTHERWISE SPECIFIED

ALL DIMENSION IN INCHES

FRACTIONS = ±1/16
ONE PLACE .X = ±.050
TWO PLACE .XX = ±.010
THREE PLACE.XXX = ±.005

ALL ANGLES ARE ± 0°30'

SHEATH AND LEAD LENGTHS PER BURNS P/N 17026

UNLESS OTHERWISE NOTED:
ALL SURFACES 125

ALL FINISHES IN MICRO INCHES

BURNS ENGINEERING

SCALE	N.T.S.	
DFTM	TSH	1-21-11
CHKD	PAC	1-21-11
APPD	RJT	1-21-11

DIMENSIONS IN INCHES

MOUNTING AND OUTLINE DRAWING,
SANITARY AUTOCLAVE HEAVY DUTY
RTD ASSEMBLY

SHEET	SIZE	DRAWING NUMBER	REV
SHEET 1 OF 3	A	SAH	C

ORDERING INFORMATION:

SAH	Sanitary Autoclave Heavy Duty					
	Accuracy options					
	-10	Standard RTD +/-0.10% of resistance at degrees C				
		Element / Wire configuration and sensor diameter				
		A	*Three wire single element			
		B	Four wire single element			
		C	**Three wire dual element			
			"JL" Protective jacketing length (12 inch increments) 72.0 inch minimum length			
			120	120 inch Protective jacket length		
			180	180 inch Protective jacket length		
			240	240 inch Protective jacket length		
			300	300 inch Protective jacket length		
				Specify length in inches, 12 inch increment		
				"LY" Cable length beyond protective jacketing (12 inch increments) 12.0 minimum length		
				-120	120.0 inch cable length	
				-180	180.0 inch cable length	
				-240	240.0 inch cable length	
				-300	300.0 inch cable length	
					Specify Cable length in inches (12 inch increments)	
					Cap Size	
					-15	1.5 inch
					-20	2.0 inch
					-25	2.5 inch
					-30	3.0 inch
					-40	4.0 inch
SAH	-10	B	180	-180	-25	SAH-10B180-180-25 Typical Part Number

Note: For all THREE WIRE probes in the following configurations the specified cable length must be maintained i.e. the cable cannot be cut to a shorter length without adversely affecting the accuracy of the probe.

*Single element, 0.10% accuracy probes with cable lengths 320 inches (26.6 ft) and longer

**Dual element, 0.10% accuracy probes all cable lengths

PERFORMANCE SPECIFICATIONS:

- NOMINAL ICE POINT RESISTANCE (R0): 100.00 Ω
- R0 INTERCHANGEABILITY: R0 ± 0.10 Ω
- TYPICAL ALPHA VALUE: 0.0038500 Ω/Ω/°C
- TEMPERATURE RATING: -50 °C TO 200°C
- ELEMENT CONFIGURATION: SINGLE OR DUAL
- LONG-TERM STABILITY: ± 0.26 °C (0.10 Ω) MAXIMUM SHIFT AT 0 °C AFTER 1000 HOURS AT 200 °C
- LONG-TERM REPEATABILITY: ± 0.10 °C (0.04 Ω) MAXIMUM SHIFT AT 0 °C AFTER 10 CYCLES BETWEEN -50 °C AND 200 °C
- SHORT-TERM REPEATABILITY AND HYSTERESIS: ± 0.025 °C (0.01 Ω) MAXIMUM CHANGE AT 0 °C OVER ANY 5 CONSECUTIVE THERMAL CYCLES FROM 0 °C TO 135 °C
- RATED PRESSURE: 1 psia TO 35 psia
- TRANSITION FITTING AND CABLE LIMITS: -50 °C TO 200 °C CONTNUOUS EXPOSURE
- INSULATION RESISTANCE: 100 MΩ MINIMUM AT 100 VDC AT ROOM TEMPERATURE