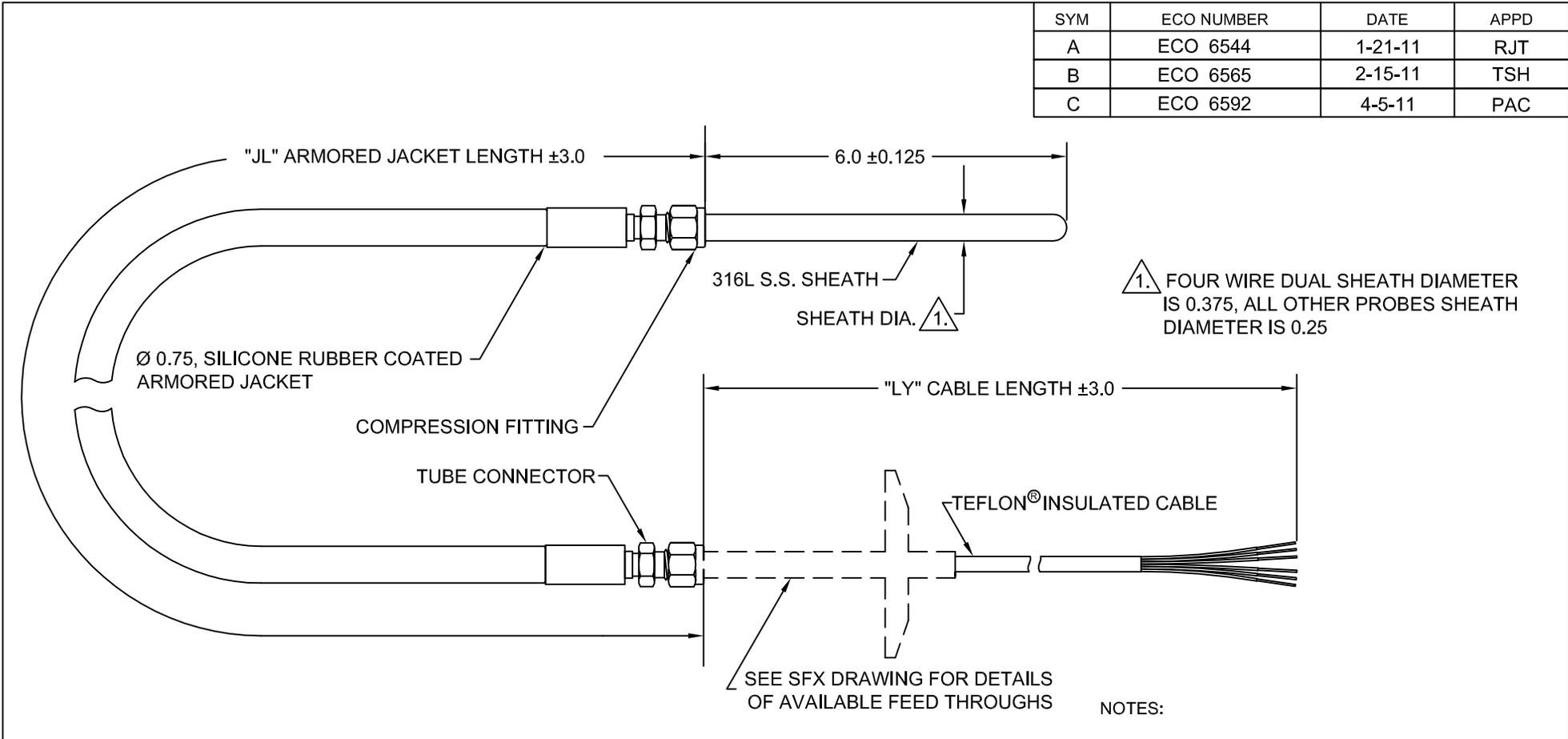
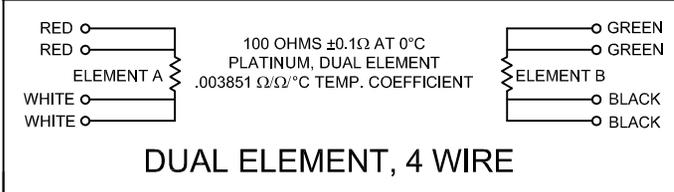
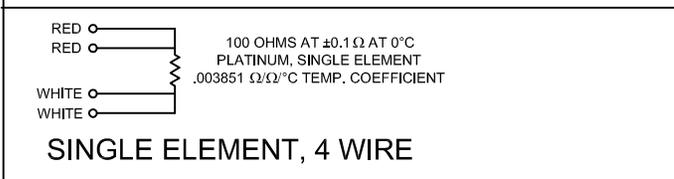


SYM	ECO NUMBER	DATE	APPD
A	ECO 6544	1-21-11	RJT
B	ECO 6565	2-15-11	TSH
C	ECO 6592	4-5-11	PAC



NOTES:

- TEMPERATURE LIMIT: -50 TO 200°C
- SEE SHEET #2 FOR ORDERING INFORMATION. SEE SHEET #4 FOR PERFORMANCE INFORMATION
- SEE SHEET #3 FOR REPLACEMENT PROBE INFORMATION.



**-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

MOUNTING AND OUTLINE DRAWING, SANITARY AUTOCLAVE X-TREME DUTY RTD ASSEMBLY			
SHEET 1 OF 4	SIZE A	DRAWING NUMBER SAX	REV C

ORDERING INFORMATION:

SAX	Sanitary Autoclave X-treme Duty			
	Accuracy options			
	-10	Standard RTD +/-0.10% of resistance at 0 degrees C		
		Element / Wire configuration and sensor diameter		
	A	*Three wire single element, 0.25 Dia. Sheath		
	B	Four wire single element, 0.25 Dia. Sheath		
	C	**Three wire dual element, 0.25 Dia. Sheath 		
	D	Four wire dual element, 0.375 Dia. Sheath		
		"JL" Armored jacket length (12 inch increments) 72.0 inch minimum length		
	120	120 inch Armored jacket length		
	180	180 inch Armored jacket length		
	240	240 inch Armored jacket length		
		Specify length in inches, 12 inch increments		
		"LY" Cable length beyond armored jacket (12 inch increments) 12.0 inch minimum length		
	-060	60.0 inch cable length		
	-120	120.0 inch cable length		
	-180	180.0 inch cable length		
		Specify Cable length in inches (12 inch increments)		
SAX	-10	B	120	-180
SAX-10C120-180 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



BURNS
ENGINEERING

SHEET 2
OF 4

SIZE
A

DRAWING NUMBER
SAX

REV
C

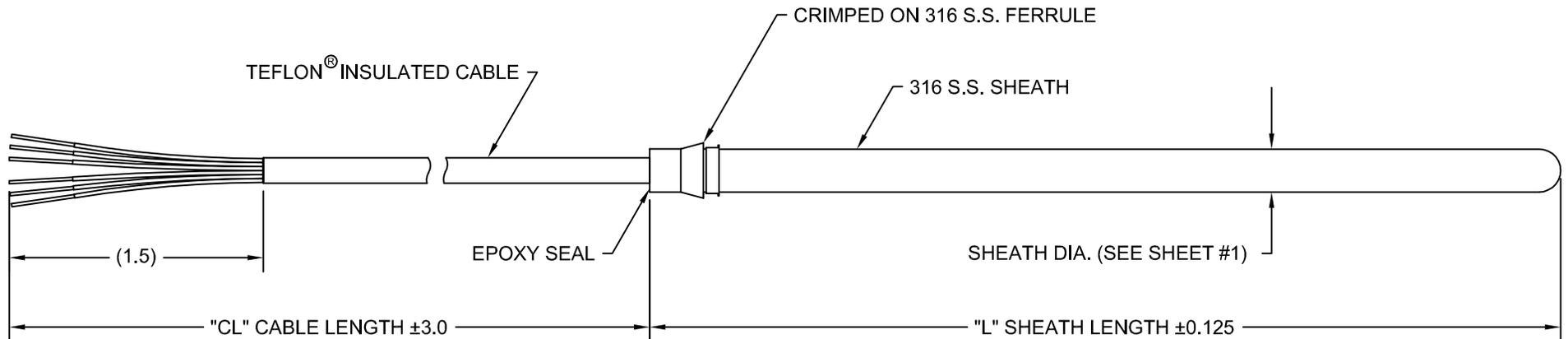
REPLACEMENT PROBE RE-ORDER INFORMATION: (SEE DETAIL "A")

SAX Sanitary Autoclave X-treme Duty				
Accuracy options				
-10	Standard RTD +/-0.10% of resistance at 0 degrees C			
Element / Wire configuration and sensor diameter				
A	*Three wire single element, 0.25 Dia. Sheath			
B	Four wire single element, 0.25 Dia. Sheath			
C	**Three wire dual element, 0.25 Dia. Sheath			
D	Four wire dual element, 0.375 Dia. Sheath			
"CL" Cable length (12 inch increments) 84.0 inch minimum length				
084	84.0 inch cable length			
120	120.0 inch cable length			
180	180.0 inch cable length			
Specify Cable length in inches (12 inch increments)				
SAX	-10	B	180	SAX-B180 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



DETAIL A: REPLACEMENT PROBE

NOTE: FOR THE REPLACEMENT PROBE "CL" = "LY" + "PL"



BURNS
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SHEET 3
OF 4

SIZE
A

DRAWING NUMBER
SAX

REV
C

PERFORMANCE SPECIFICATIONS:

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



BURNS
ENGINEERING

SHEET 4
OF 4

SIZE
A

DRAWING NUMBER
SAX

REV
C