

## SHEATH WITH LEADWIRE

### How to build a part number:

To order an Applied Sensor Technologies temperature sensor, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

SENSOR TYPE	ASSEMBLY STYLE	SHEATH DIAMETER	SHEATH MATERIAL	TEMPERATURE RANGE	SHEATH LENGTH	LEADWIRE LENGTH	OPTIONS

**SENSOR TYPE** (See page 2-10b for optional elements)

**RTP1** – Platinum; DIN 0.00385; 100 ohm +/- 0.12% @ 0°C; 3-wire construction

**(For dual element, add prefix "D"- e.g., DRTP1)**

### ASSEMBLY STYLE

**20 – Sheath with leadwire;** Teflon® insulated conductors; no jacket

**28 – Sheath with Teflon® jacketed cable;** Teflon® insulated conductors

**SHEATH DIAMETER** (in inches) (see page 2-10b for restrictions)

**4** – 1/8 (0.125)

**6** – 3/16 (0.188)

**7** – 1/4 (0.250)

**9** – 3/8 (0.375)

### SHEATH MATERIAL

**3** – 316 stainless steel

**TEMPERATURE RANGE** - Minimum and maximum operating temperatures

**1** – -45 to 260°C (-50 to 500°F)

**2** – -45 to 482°C (-50 to 900°F)

**3** – -45 to 788°C (-50 to 1450°F)

**4** – -200 to 260°C (-328 to 500°F)

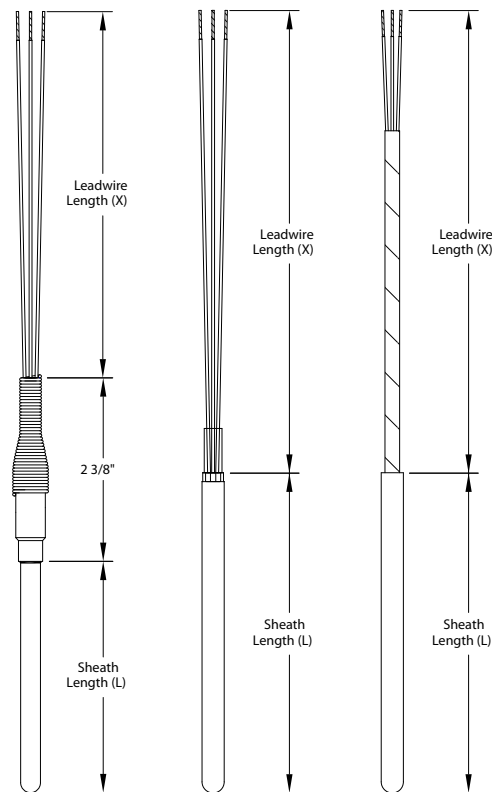
**SHEATH LENGTH** (for lengths greater than L=36", consult AST)

**L#** – (e.g., L6 = 6 inch sheath, L12.5 = 12.5 inch length)

### LEADWIRE LENGTH

**X#** – (e.g., X72 = 72 inch length)

**OPTIONS** – see page 2-10b



Temperature Range 3 view for Style 20 & 28

Temperature Range 2 & 4 view for Style 28

Teflon® is a registered trademark of DuPont

# STYLES 20 & 28

<b>ASSEMBLY OPTIONS</b>			
Option Code	Description		
TAG1	Stainless steel tag and wire		
CAL1	NIST traceable calibration [specify point(s)]		
CRT1	Certificate of conformance		
B45-	45° bend in sheath (specify length from tip in inches e.g., B45-6 [minimum length = 3"])		
B90-	90° bend in sheath (specify length from tip in inches e.g., B90-6 [minimum length = 3"])		
<b>WIRING CONNECTION OPTIONS</b>			
Option Code	Description		
WC76	#6 spade terminals, plated copper		
WC70	#10 spade terminals, plated copper		
WC84	1/4" push-on insulated terminals, plated copper		
WC90	#10 ring terminals		
WC98	#8 ring terminals		
<b>PLUGS AND JACKS</b> (For 2 and 3 wire constructions only. Note: plug is designed to be attached to sensor assemblies. Jack options – for customer wiring – should only be specified if plug option is also included. Cable clamp is included for both plug and jack options.)			
PJ10	Standard plug, rated to 177°C (350°F)		
PJ20	Standard jack, rated to 177°C (350°F)		
<b>For flexible stainless steel armor, see Style 03</b>			
<b>OPTIONAL ELEMENTS</b>			
RTDs are standardly platinum, 100-ohm, DIN-curve elements with a 0.00385 alpha.			
Option Code	Accuracy (at 0°C)	Construction	
RTP1 (std.)	±0.12%	3-wire	
RTP1A	<b>±0.06%</b>	3-wire	
RTP1AA	<b>±0.01%</b>	3-wire	
RTP6	±0.12%	<b>2-wire</b>	
RTP7	±0.12%	<b>4-wire</b>	
RTP7A	<b>±0.06%</b>	<b>4-wire</b>	
RTP7AA	<b>±0.01%</b>	<b>4-wire</b>	
Notes: 1. For dual element, add prefix "D" (e.g., DRTP6) 2. Additional materials, curves and resistance values are available - see Capabilities brochure.			
<b>COMPRESSION FITTINGS</b> (for diameters 4, 6, 7)			
Option Code	NPT	Material	Ferrule
CF10	1/8"	Stainless steel	Stainless steel
CF11	1/8"	Stainless steel	Teflon®
CF12	1/8"	Brass	Brass
CF20	1/4"	Stainless steel	Stainless steel
CF21	1/4"	Stainless steel	Teflon®
CF22	1/4"	Brass	Brass
CF30	1/2"	Stainless steel	Stainless steel
CF31	1/2"	Stainless steel	Teflon®
CF32	1/2"	Brass	Brass

## AVAILABLE OPTIONS and MODIFICATIONS

<b>Smallest Diameter Sheath Available By Sensor Type and Temperature Range</b>							
Style 20, SINGLE							
Temp Range	RTP 1	RTP 1A		RTP 6	RTP 7	RTP 7A	
1	1/8	1/8	1/8	1/8	3/16	3/16	3/16
2	3/16	3/16	3/16	3/16	3/16	3/16	3/16
3	3/16			3/16	3/16		
4	1/8			1/8	3/16		
Style 20, DUAL							
Temp Range	DRTP 1			DRTP 6	DRTP 7		
1	3/16	3/16	3/16	3/16	1/4	1/4	1/4
2	1/4	1/4	1/4	3/16	3/8	3/8	3/8
3	1/4			1/4	1/4		
4	3/16			3/16	1/4		
<b>Smallest Diameter Sheath Available By Sensor Type and Temperature Range</b>							
Style 28, SINGLE ONLY							
Temp Range	RTP 1	RTP 1A	RTP 1AA	RTP 6	RTP 7	RTP 7A	RTP 7AA
1	1/8	1/8	1/8				
2	3/16	3/16	3/16				
3	3/16						
4	1/8						