

## SHEATH WITH LEADWIRE AND ARMOR CABLE

### 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 2-11b for optional elements)

**RTPI** – Platinum; DIN 0.00385; 100 ohm +/- 0.12% @ 0°C; 3-wire construction  
(For dual element, add prefix "D"- e.g., DRTP1)

#### **ASSEMBLY STYLE**

**03 – Sheath with leadwire;** Teflon® insulated conductors; flexible stainless steel armor cable

**03P – PVC coated armor**

**03T – Teflon® coated armor**

#### **SHEATH DIAMETER** (in inches) (see page 2-11b 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)

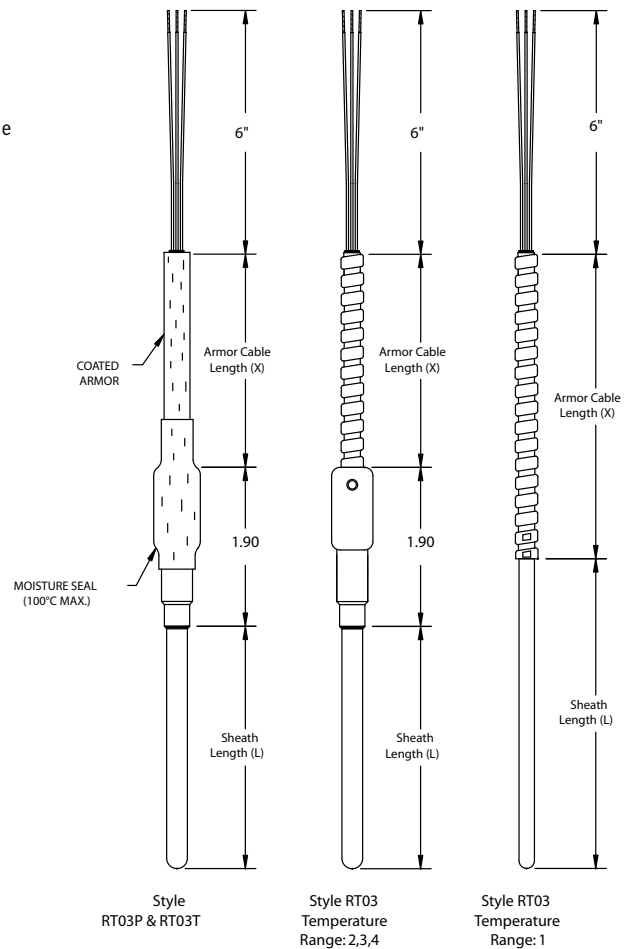
#### **SHEATH LENGTH** (for lengths greater than L=48", consult AST)

**L#** – (e.g., L6 = 6 inch sheath)

#### **ARMOR CABLE LENGTH**

**X#** – (e.g., X72 = 72 inch length)

#### **OPTIONS** – see page 2-11b



# STYLE 03

## AVAILABLE OPTIONS AND MODIFICATIONS

ASSEMBLY OPTIONS			
Option Code	Description		
TAG1	Stainless steel tag and wire		
CAL1	NIST traceable calibration [specify point(s)]		
B45-	45° bend in sheath (specify length from tip in inches e.g., B45-6)		
B90-	90° bend in sheath (specify length from tip in inches e.g., B90-6)		
ARMOR OPTIONS			
BA50	Bayonet cap on armor (Style 03, temperature range 1 only) – formerly Style 25		
PLUGS AND JACKS (2 and 3-wire construction only)			
PJ10	Standard plug, rated to 177°C (350°F)		
PJ20	Standard jack, rated to 177°C (350°F)		
WELD PADS			
WP00	Horizontal pad/flat		
WP10	1" nominal pipe size		
WP15	1.5" nominal pipe size		
WP20	2" nominal pipe size		
WP25	2.5" nominal pipe size		
WP30	3" nominal pipe size		
WP35	3.5" nominal pipe size		
WP40	4" nominal pipe size		
COMPRESSION FITTINGS			
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

Smallest Diameter Sheath Available By Sensor Type and Temperature Range							
SINGLE							
Temp Range	RTP 1	RTP 1A	RTP 1AA	RTP 6	RTP 7	RTP 7A	RTP 7AA
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		
DUAL							
Temp Range	DRTP 1	DRTP 1A	DRTP 1AA	DRTP 6	DRTP 7	DRTP 7A	DRTP 7AA
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		
OPTIONAL ELEMENTS							
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	±0.06%		3-wire				
RTP1AA	±0.01%		3-wire				
RTP6	±0.12%		<b>2-wire</b>				
RTP7	±0.12%		<b>4-wire</b>				
RTP7A	±0.06%		<b>4-wire</b>				
RTP7AA	±0.01%		<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.							
WIRING CONNECTION OPTIONS							
Option Code	Description						
WC76	#6 spade terminals						
WC70	#10 spade terminals, plated copper						
WC84	1/4" push-on insulated terminals, plated copper						
WC90	#10 ring terminals						
WC98	#8 ring terminals						
BX CONNECTORS							
WC40	1/2"						
WC50	3/4"						
Note: for assembly with sheath, armor and terminal head, see Style 66.							