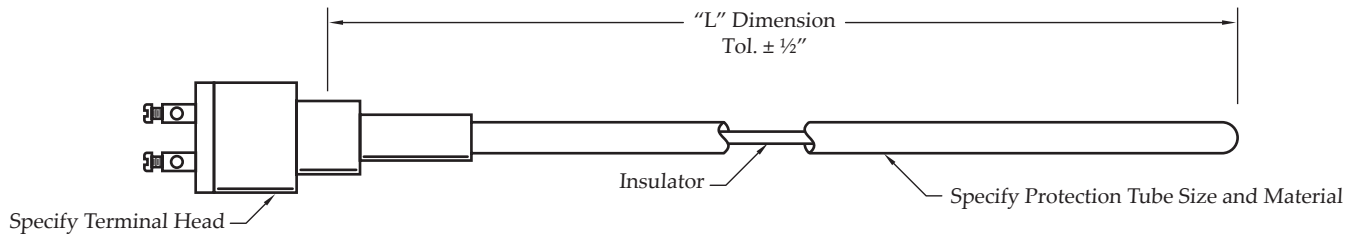


Industrial Process Thermocouples

NOBLE METAL THERMOCOUPLE WITH SINGLE CERAMIC TUBE

The TSPT Style Thermocouple assembly features a noble metal thermocouple and single ceramic protection tube. A variety of process connection and terminal housing options are available.



STYLE TSPT - Single Tube Assembly

Table 1: Thermocouple Type

Element Type and Gauge			
Code	T/C Quantity	Calibration Type	Gauge
SR24	Single	R	24
SS24	Single	S	24
SB24	Single	B	24
DR24	Dual	R	24
DS24	Dual	S	24
DB24	Dual	B	24

Table 2: Protection Tube

Code	Size/Material
A	3/8 OD Mullite
B	3/8 OD Alumina
C	11/16 OD Mullite
D	11/16 OD Alumina
X	Special

Table 3: "L" Dimension

Specify in inches. See table on page 27 for codes.

Table 4: Process Connection

Code	Description
0	No Process Fitting
G	1/2" NPT, Brass Bushing
H	1/2" NPT, Stainless Steel Bushing
J	3/4" NPT, Brass Bushing
K	3/4" NPT, Stainless Steel Bushing

Table 5: Termination Options

Code	Termination Type
K	Open Head Brass Terminal
B	3/4" NPT Conduit, Aluminum Head
C	1/2" NPT Conduit, Cast Iron Head

Part Number Sequence

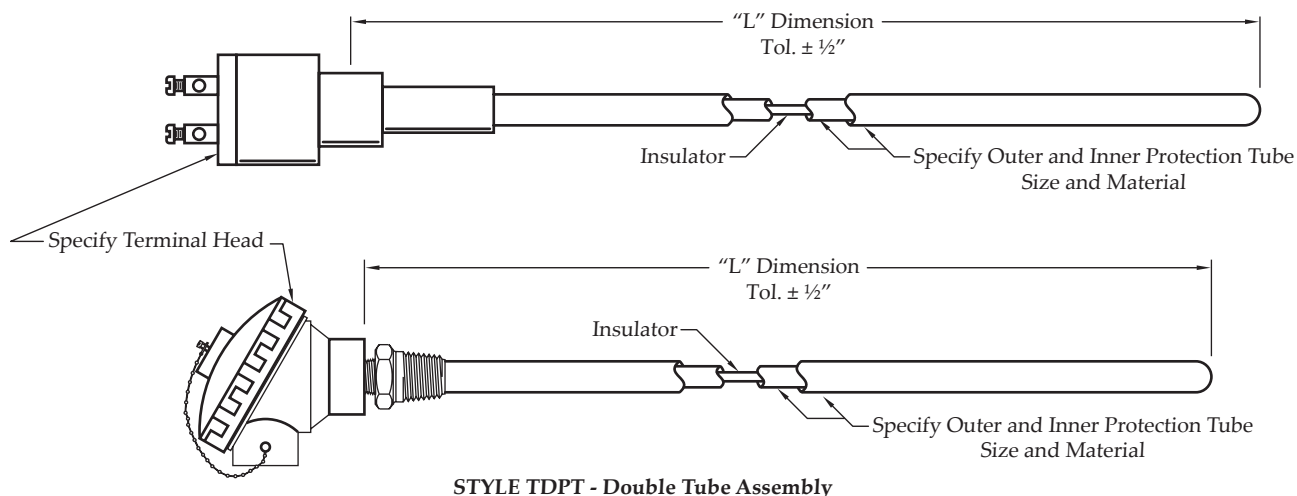
TSPT-SR24-C06H-KB

TSPT	-	SR24	-	C	-	06H	-	K	B
TSPT		Table 1		Table 2		Table 3		Table 4	Table 5
Sensor Type & Style No.		Thermocouple Type		Protection Tube		"L" Dimension		Process Connection	Termination Options

Industrial Process Thermocouples

NOBLE METAL THERMOCOUPLE WITH DOUBLE CERAMIC TUBE

The TDPT Style Thermocouple assembly features a noble metal thermocouple element with a primary and secondary ceramic protection tube for additional protection in extreme environments.



STYLE TDPT - Double Tube Assembly

Table 1: Thermocouple Type

Element Type and Gauge			
Code	T/C Quantity	Calibration Type	Gauge
SR24	Single	R	24
SS24	Single	S	24
SB24	Single	B	24
DR24	Dual	R	24
DS24	Dual	S	24
DB24	Dual	B	24

Table 2: Outer Protection Tube

Code	Size/Material
LL	¹¹ / ₁₆ OD Alumina
LW	¹¹ / ₁₆ OD Mullite
PZ	⁷ / ₈ OD LT-1
UA	1.05" OD Inconel® 601

Table 3: "L" Dimension
Specify in inches.
See table on page 27 for codes.

Table 4: Inner Protection Tube

Code	Size
F	³ / ₈ Diameter

Table 5: Process Connection

Code	Description
0	No Process Fitting
G	¹ / ₂ " NPT, Brass Bushing
H	¹ / ₂ " NPT, Stainless Steel Bushing
J	³ / ₄ " NPT, Brass Bushing
K	³ / ₄ " NPT, Stainless Steel Bushing

Table 6: Termination Options

Code	Termination Type
K	Open Head Brass Terminal
B	³ / ₄ " NPT Conduit, Aluminum Head
D	³ / ₄ " NPT Conduit, Cast Iron Head

Part Number Sequence

TDPT-SR24-LL06HF-KB

TDPT	-	SR24	-	LL	06H	F	-	K	B
TDPT		Table 1		Table 2	Table 3	Table 4		Table 5	Table 6
Sensor Type & Style No.		Thermocouple Type		Outer Protection Tube	"L" Dimension	Inner Protection Tube		Process Connection	Termination Options

Industrial Process Thermocouples

REPLACEMENT CERAMIC PROTECTION TUBES

Replacement ceramic protection tubes are available for all thermocouple protection tube assemblies.

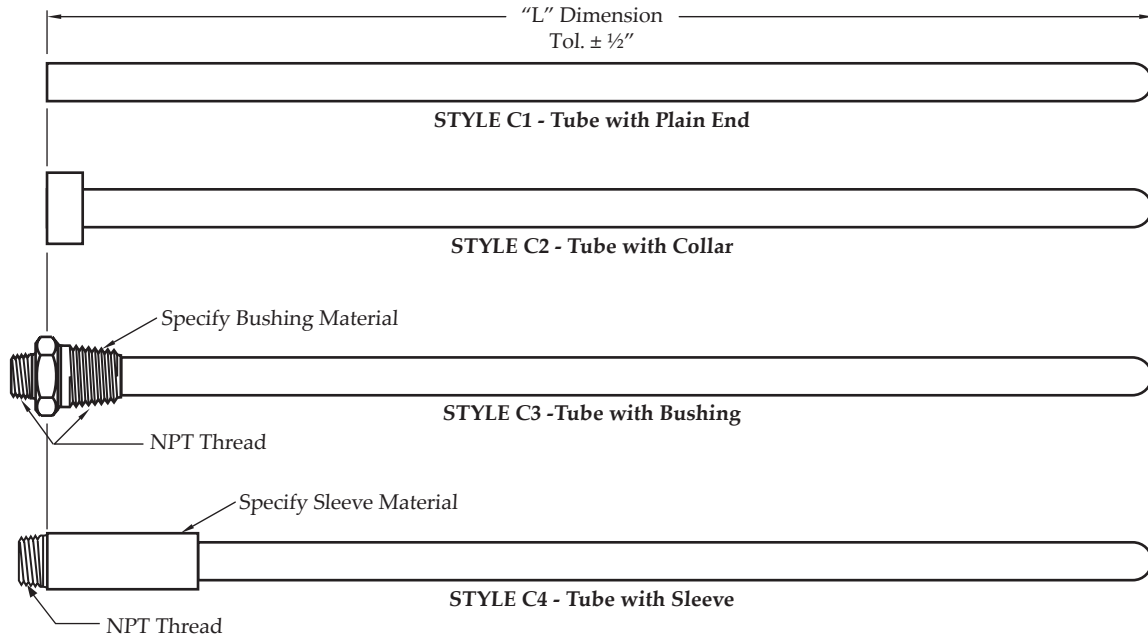


Table 1: Tube Material

Code	Material
W	Mullite
L	Alumina

Table 2: Tube Size

Code	Description
D	$\frac{3}{16}$ " ID x $\frac{1}{4}$ " OD
F	$\frac{1}{4}$ " ID x $\frac{3}{8}$ " OD
H	$\frac{3}{8}$ " ID x $\frac{1}{2}$ " OD
L	$\frac{7}{16}$ " ID x $\frac{11}{16}$ " OD
S	$\frac{3}{4}$ " ID x 1" OD
Q	1" ID x 1 $\frac{1}{4}$ " OD

Table 4: Fitting Options

Code	Description
0	No Fitting Option
1	$\frac{1}{2}$ " x $\frac{1}{2}$ " NPT Hex Nipple
2	$\frac{3}{4}$ " x $\frac{1}{2}$ " NPT Hex Nipple
3	$\frac{3}{4}$ " x $\frac{3}{4}$ " NPT Hex Nipple
4	1" x $\frac{3}{4}$ " NPT Hex Nipple
5	1" x 1" NPT Hex Nipple
6	1 $\frac{1}{4}$ " x 1" NPT Hex Nipple
7	$\frac{7}{8}$ - 27 Sleeve
8	$\frac{1}{2}$ " Schedule 40 Pipe
9	$\frac{1}{2}$ " NPT Schedule 40 Pipe
A	$\frac{3}{4}$ " Schedule 40 Pipe
B	$\frac{3}{4}$ " NPT Schedule 40 Pipe
C	1" Schedule 40 Pipe
D	1" NPT Schedule 40 Pipe
E	$\frac{3}{4}$ " x $\frac{1}{2}$ " NPT Hex Bushing
F	1" x $\frac{3}{4}$ " NPT Hex Bushing
G	1 $\frac{1}{4}$ " x 1" NPT Hex Bushing

Table 3: "L" Dimension

Specify in inches. See table on page 27 for codes.

Table 5: Fitting Material

Code	Material
0	No Fitting
4	304 Stainless Steel
6	316 Stainless Steel
B	Brass
K	Black Pipe
R	Carbon Steel

Part Number Sequence

C1-WF06H-B4

C3	-	W	F	06H	-	B	4
C3		Table 1	Table 2	Table 3		Table 4	Table 5
Sensor Type & Style No.		Tube Material	Tube Size	"L" Dimension		Fitting Options	Fitting Material