



Series 110

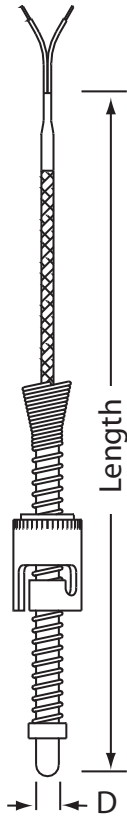


Figure 351

Series 120

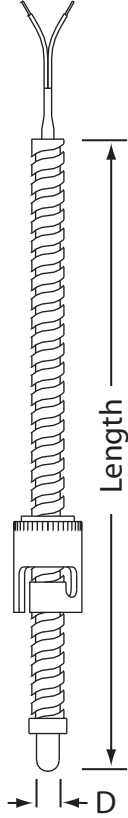
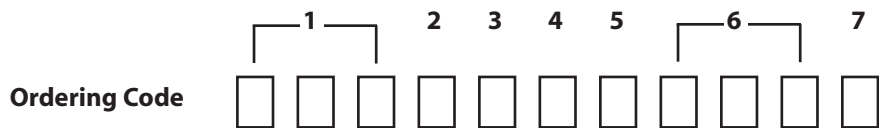


Figure 352

1) Series	110	120
2) Diameter (D)	B = 1/8", C = 3/16", D = 1/4"	
3) Calibration	J, K, T, E, D = RTD 2 wire F = RTD 3 wire	
4) Junction	G = Grounded, U = Ungrounded	
5) Leads	G = Fiberglass 24 ga T = Fiberglass 24 ga stainless braid F = Fiberglass 20 ga S = Fiberglass 20 ga stainless braid I = Fiberglass 24 ga stainless hose H = Fiberglass 20 ga stainless hose A = Teflon 24 ga B = Teflon 20 ga C = PVC 24 ga D = PVC 20 ga	
6) Lead length	In whole inches 006-999	
7) Termination	Choose a terminal design from pg L8	





Thermocouples - Ring Tongue and Shimstock

ASB Heating Elements Ltd.

Series 130

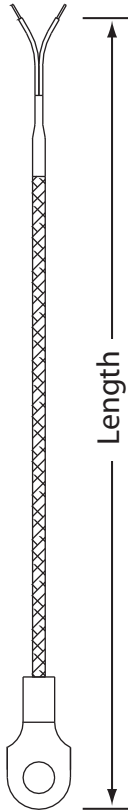


Figure 353

Series 140

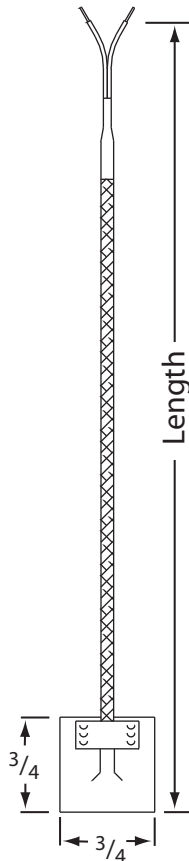


Figure 354

1) Series	130	140
2) Lug Sizes	Ring size A = #8, B = #10, C = 1/4" Shim size D = 3/4" by 3/4" Stainless steel	
3) Calibration	J, K, T, E, D = RTD 2 wire F = RTD 3 wire	
4) Junction	G = Grounded, U = Ungrounded	
5) Leads	T = Fiberglass 24 ga stainless braid S = Fiberglass 20 ga stainless braid I = Fiberglass 24 ga stainless hose H = Fiberglass 20 ga stainless hose A = Teflon 24 ga B = Teflon 20 ga	
6) Lead length	In whole inches 006-999	
7) Termination	Choose a terminal design from pg L8	
8) Special options	Enter 0 if none. Specify others at time of order	

Ordering Code

	1	2	3	4	5	6	7	8



Thermocouples - Nozzle and Pipe Clamp

ASB Heating Elements Ltd.

Series 145

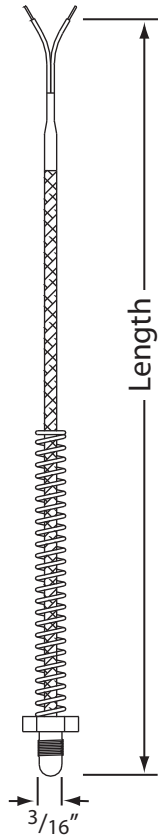


Figure 355

Series 146

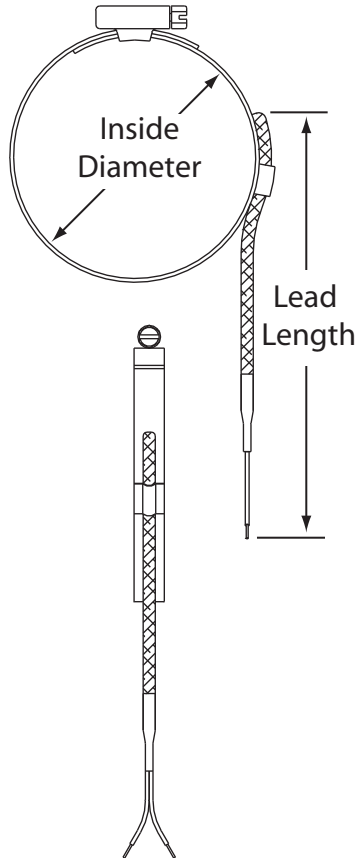


Figure 356

1) Series	145	146
2) Bolt Sizes	A = 1/4 x 28 UNF, B = 8-32, C = 10-32, D = M6 x 1	
Band diameters	E = 1 1/16 - 1 1/4, F = 1 1/4 - 2 1/4, G = 2 1/4 - 3 1/4, H = 3 1/4 - 4 1/4, I = 4-5, J = 5-6, K = 6-7,	
3) Calibration	J, K, T, E	
4) Junction	G = Grounded, U = Ungrounded	
5) Leads	T = Fiberglass 24 ga stainless braid S = Fiberglass 20 ga stainless braid I = Fiberglass 24 ga stainless hose H = Fiberglass 20 ga stainless hose A = Teflon 24 ga B = Teflon 20 ga	
6) Lead length	In whole inches 006-999	
7) Termination	Choose a terminal design from pg L8	
8) Special options	Enter 0 if none. Specify others at time of order	

Ordering Code

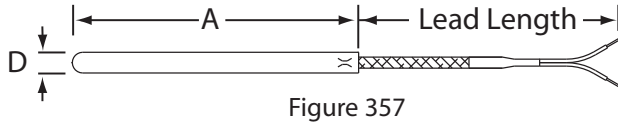
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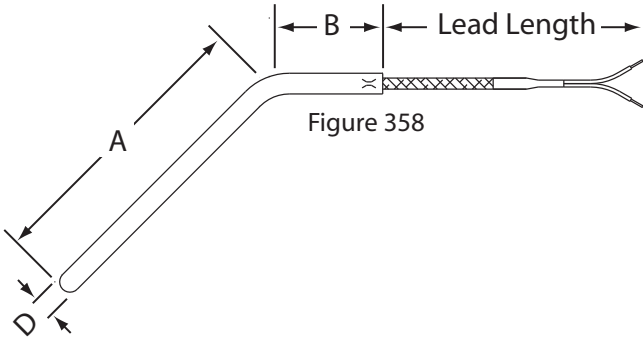
Thermocouples & RTD - Tube and Wire

ASB Heating Elements Ltd.

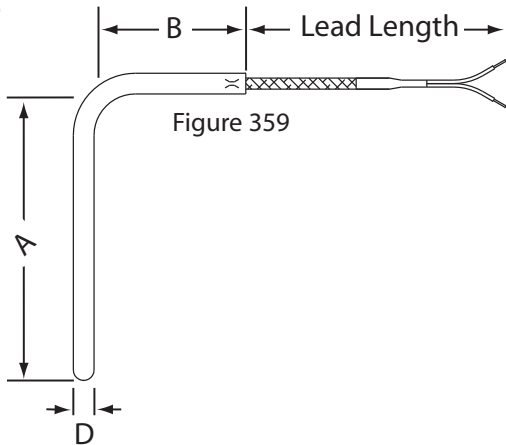
Series 150



Series 151



Series 152



1) Series 150 151 152

2) Diameter (D) B = 1/8", C = 3/16", D = 1/4",

3) Calibration J, K, T, E, D = RTD 2 wire
F = RTD 3 wire

4) Junction G = Grounded, U = Ungrounded

5) A Dimension A=1/2, B=1, C=1 1/2, D=2, E=2 1/2, F=3
G=3 1/2, H=4, I=4 1/2, J=5, K=5 1/2, L=6,
M=6 1/2, N=7, O=7 1/2, P=8, Q=8 1/2, R=9
S=9 1/2, T=10, U=12, V=18, W=24, Y=36
Z=48, X=Special length

6) B Dimension A=1/2, B=1, C=1 1/2, D=2, E=2 1/2, F=3
G=3 1/2, H=4, I=4 1/2, J=5, K=5 1/2, L=6,
M=6 1/2, N=7, O=7 1/2, P=8, Q=8 1/2, R=9
S=9 1/2, T=10, U=12, V=18, W=24, Y=36
Z=48, X=Special length
(Enter 0 for series 150)

7) Leads G = Fiberglass 24 ga
T = Fiberglass 24 ga stainless braid
F = Fiberglass 20 ga
S = Fiberglass 20 ga stainless braid
I = Fiberglass 24 ga stainless hose
H = Fiberglass 20 ga stainless hose
A = Teflon 24 ga
B = Teflon 20 ga
C = PVC 24 ga
D = PVC 20 ga

8) Lead length In whole inches 006-999

9) Termination Choose a terminal design from pg L8

10) Special options Fittings, flanges etc. Specify at time of order. Enter 0 if none

Ordering Code

1			2	3	4	5	6	7	8			9	10
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Thermocouples & RTD - Tube and Wire

ASB Heating Elements Ltd.

Series 160

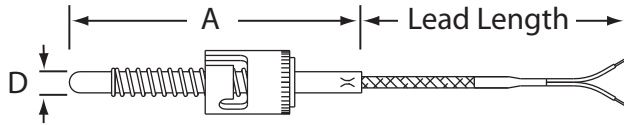


Figure 360

Series 161

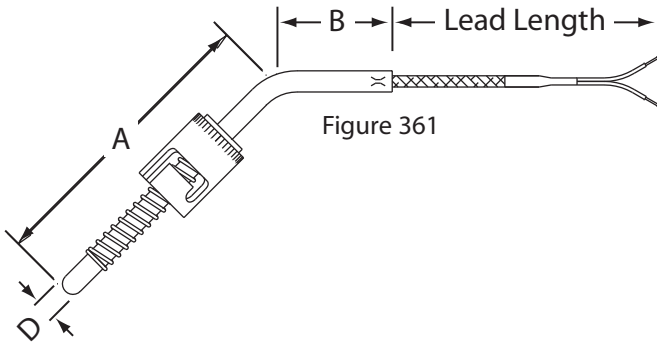


Figure 361

Series 162

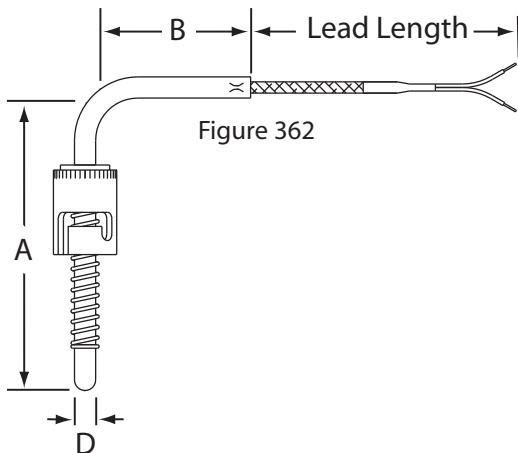


Figure 362

1) Series 160 161 162

2) Diameter (D) B = 1/8", C = 3/16", D = 1/4",

3) Calibration J, K, T, E, D = RTD 2 wire
F = RTD 3 wire

4) Junction G = Grounded, U = Ungrounded

5) A Dimension A=1/2, B=1, C=1 1/2, D=2, E=2 1/2, F=3
G=3 1/2, H=4, I=4 1/2, J=5, K=5 1/2, L=6,
M=6 1/2, N=7, O=7 1/2, P=8, Q=8 1/2, R=9
S=9 1/2, T=10, U=12, V=18, W=24, Y=36
Z=48, X=Special length

6) B Dimension A=1/2, B=1, C=1 1/2, D=2, E=2 1/2, F=3
G=3 1/2, H=4, I=4 1/2, J=5, K=5 1/2, L=6,
M=6 1/2, N=7, O=7 1/2, P=8, Q=8 1/2, R=9
S=9 1/2, T=10, U=12, V=18, W=24, Y=36
Z=48, X=Special length
(Enter 0 for series 160)

7) Leads
G = Fiberglass 24 ga
T = Fiberglass 24 ga stainless braid
F = Fiberglass 20 ga
S = Fiberglass 20 ga stainless braid
I = Fiberglass 24 ga stainless hose
H = Fiberglass 20 ga stainless hose
A = Teflon 24 ga
B = Teflon 20 ga
C = PVC 24 ga
D = PVC 20 ga

8) Lead length In whole inches 006-999

9) Termination Choose a terminal design from pg L8

10) Special options Fittings, flanges etc. Specify at time of order. Enter 0 if none

Ordering Code

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Series T3

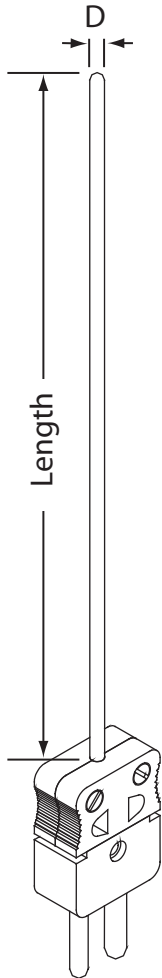


Figure 363

Series T2

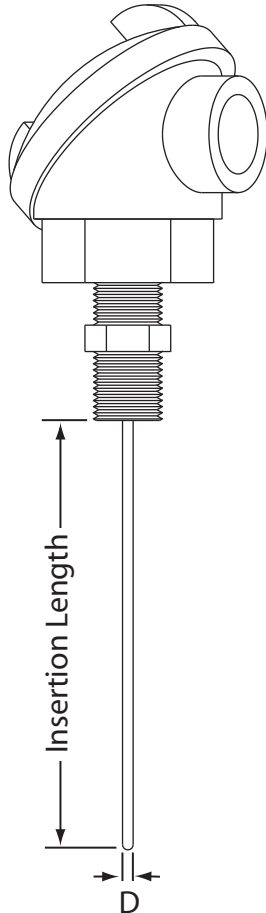


Figure 364

Series T1

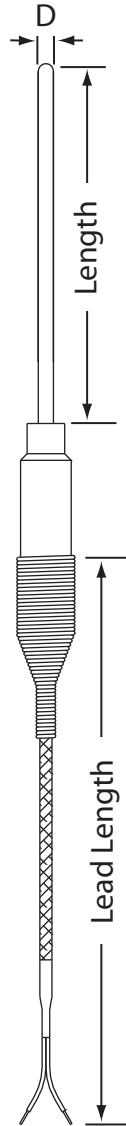


Figure 365

1) Series	T1	T2	T3
2) Diameter (D)	A = 1/16", B = 1/8", C = 3/16", D = 1/4"		
3) Calibration	J, K, T, E, R, S		
4) Junction	G = Grounded, U = Ungrounded E = Exposed		
5) Sheath Material	A = 304SS, B = 316SS, C = Incoloy		
6) L Dimension	In whole inches 00-99		
7) L Dimension	A = 0, B = 1/8", D = 1/4", F = 3/8", Fractional inches H = 1/2", J = 5/8", L = 3/4", N = 7/8"		
8) Leads	F = Fiberglass braid S = Fiberglass with stainless braid H = Fiberglass with stainless hose B = Teflon D = PVC K = Kapton		
T2 terminations	A = Aluminium head 1/2 x 1/2 ss fitting L = Aluminium head 1/2 x 1/2 ss fitting spring loaded E = Expulsion proof 1/2 x 1/2 ss fitting I = Cast iron 1/2 x 1/2 ss fitting P = Polypropylene 1/2 x 1/2 ss fitting		
9) Lead length	In whole inches 066-999		
10) Termination	Choose a terminal design from pg L8		
11) Special options	Fittings, flanges etc. Specify at time of order. Enter 0 if none		

Ordering Code

	1	2	3	4	5	6	7	8	9	10	11
	□	□	□	□	□	□	□	□	□	□	□



Series R3

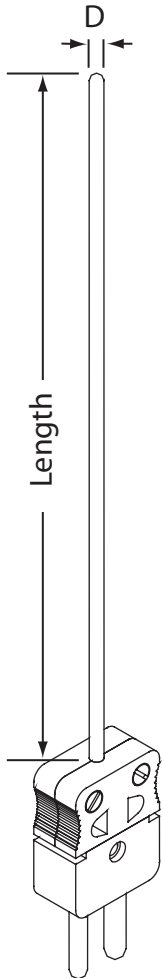


Figure 366

Series R2

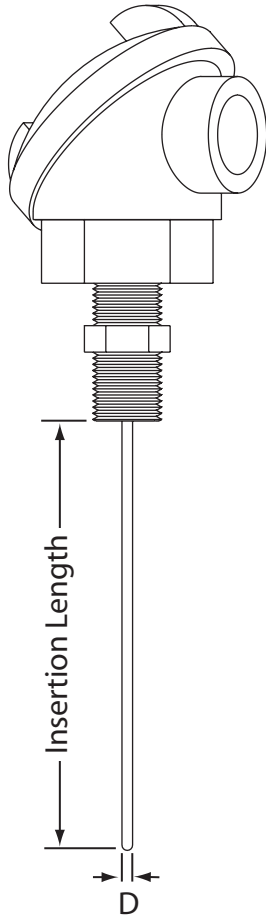


Figure 367

Series R1

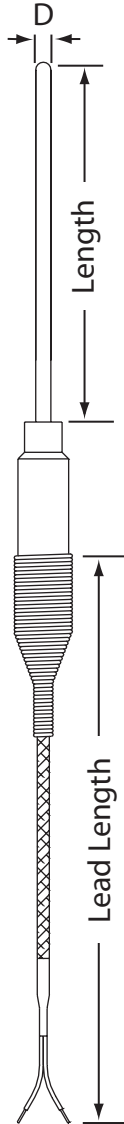


Figure 368

1) Series	R1	R2	R3
2) Diameter (D)	A = 1/16", B = 1/8", C = 3/16", D = 1/4"		
3) Coefficient	D = Din 3850, J = JIS 3916 (100 ohm)		
4) Lead Construction	D = 2 wire, T = 3 wire, F = 4 wire		
5) Sheath Material	A = 304SS, B = 316SS, C = Incoloy		
6) L Dimension	In whole inches 00-99		
7) L Dimension	A = 0, B = 1/8", D = 1/4", F = 3/8"		
Fractional inches	H = 1/2", J = 5/8", L = 3/4", N = 7/8"		
8) Leads	F = Fiberglass braid S = Fiberglass with stainless braid H = Fiberglass with stainless hose B = Teflon D = PVC K = Kapton		
T2 terminations	A = Aluminium head 1/2 x 1/2 ss fitting L = Aluminium head 1/2 x 1/2 ss fitting spring loaded E = Expolsion proof 1/2 x 1/2 ss fitting I = Cast iron 1/2 x 1/2 ss fitting P = Polypropylene 1/2 x 1/2 ss fitting		
9) Lead length	In whole inches 066-999		
10 Termination	Choose a terminal design from pg L8		
11) Special options	Fittings, flanges etc. Specify at time of order. Enter 0 if none		

Ordering Code

	1	2	3	4	5	6	7	8	9	10	11
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A- Standard Plug

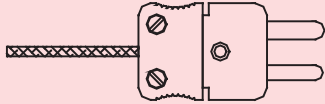


Figure 369

B- Standard Jack

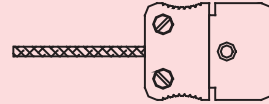


Figure 370

C- Standard Plug / Mating Jack

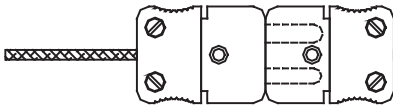


Figure 371

D - Mini Plug

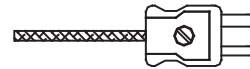


Figure 372

E - Mini Jack

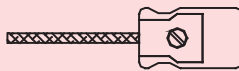


Figure 373

F - Mini Plug / Mating Jack

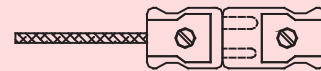


Figure 374

L - Split Leads



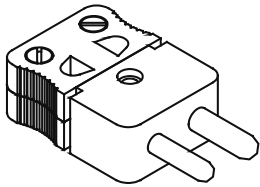
Figure 375

M - Leads with Spade Lugs



Figure 376

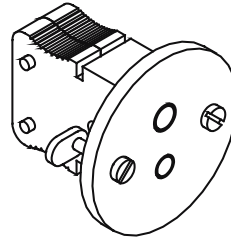
Plug - Male



400°F Hollow pins
Part number **_MP**
Insert callibration J.K.T.R.U.E.N

Figure 377

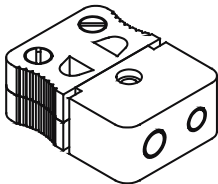
Panel Jack



400°F Hollow pins
Part number **_PMJ**
Insert callibration J.K.T.R.U.E.N

Figure 378

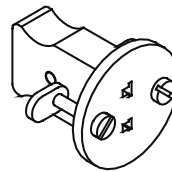
Jack - Female



400°F Hollow pins
Part number **_FP**
Insert callibration J.K.T.R.U.E.N

Figure 379

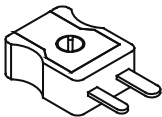
Mini Panel Jack



400°F Hollow pins
Part number **_PMJ - mini**
Insert callibration J.K.T.R.U.E.N

Figure 380

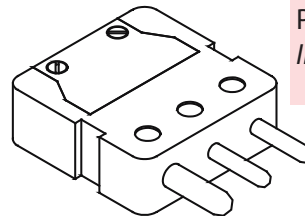
Mini Plug - Male



400°F Hollow pins
Part number **_MP - mini**
Insert callibration J.K.T.R.U.E.N

Figure 381

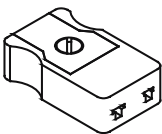
3 Pin Plug - Male



400°F Hollow pins
Part number **_MP-3**
Insert callibration J.K.T.R.U.E.N

Figure 382

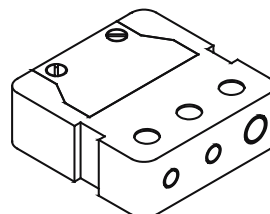
Mini Jack - Female



400°F Hollow pins
Part number **_FP - mini**
Insert callibration J.K.T.R.U.E.N

Figure 383

3 Pin Jack - Female



400°F Hollow pins
Part number **_FP-3**
Insert callibration J.K.T.R.U.E.N

Figure 384

Bayonet adaptors

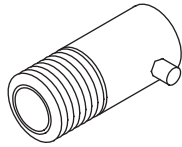


Figure 385

Part No.	Length	Thread
BA1	7/8"	1/8" NPT
BA2	1 1/2"	1/8" NPT
BA3	2"	1/8" NPT
BA4	2 1/2"	1/8" NPT
BA5	3"	1/8" NPT

Compression Fittings

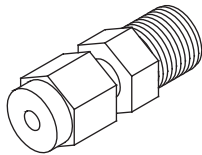


Figure 386

Part No.	Sheath O.D.	Material	Male NPT
CFB1/16ID	1/16"	Brass	1/8"
CFS1/16ID	1/16"	Stainless	1/8"
CFB1/8ID	1/8"	Brass	1/8"
CFS1/8ID	1/8"	Stainless	1/8"
CFB3/16ID	3/16"	Brass	1/8"
CFS3/16ID	3/16"	Stainless	1/8"
CFB1/4ID	1/4"	Brass	1/8"
CFS1/4ID	1/4"	Stainless	1/8"

Thermocouple wire

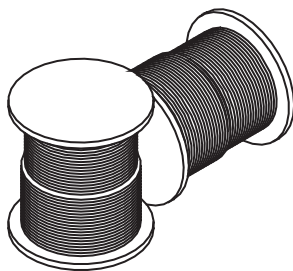


Figure 387

Construction	Overall jacket jacket	Single Conductors	Temperature ratings	
			Continuous	Single reading
PVC Polyvinyl Chloride	PVC	PVC	-20 to +221°F -29 to +105°F	N/A
FEP Extruded Teflon	FEP Teflon	FEP Teflon	-90 to +400°F -67 to +204°C	500°F 260°C
Kapton	Kapton	Kapton	500°F 260°C	N/A
Fiberglass Braid	Silicone imp. glass braid	Silicone imp. glass braid	900°F 482°C	1000°F 538°C
Vitreous Silica Fiber	Vitreous Silica Fiber	Vitreous Silica Fiber	1600°F 871°C	2000°F 1093°C
Ceramic Fiber	Ceramic Fiber	Ceramic Fiber	2200°F 1204°C	2600°F 1204°C