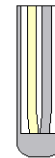
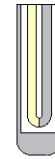
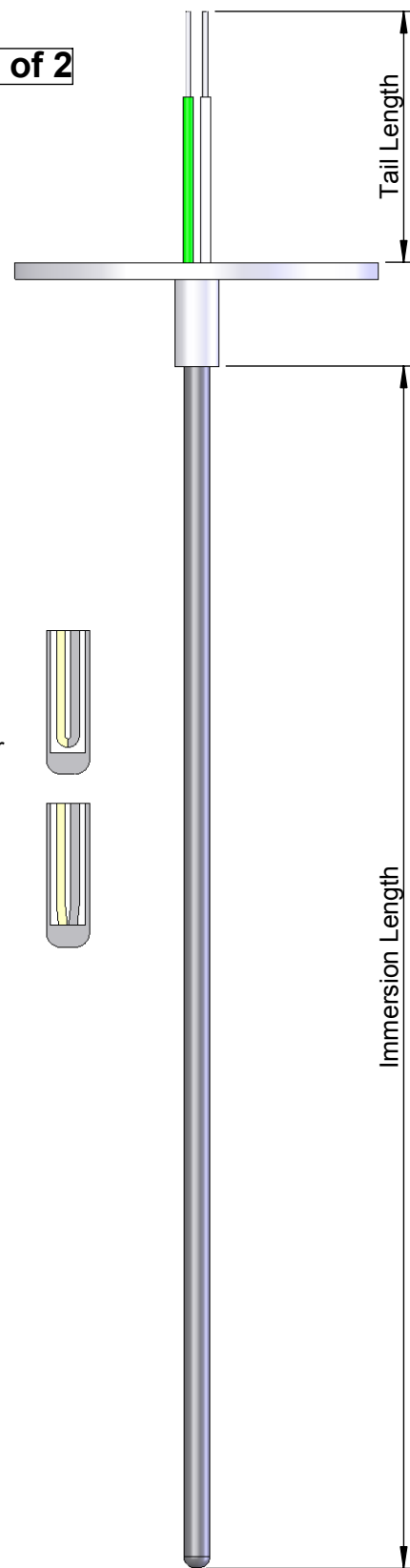




Tail Length

Immersion Length



**Thermocouple Probe Data Sheet - 3.0mm, 4.5mm & 6.0mm**

**Type K, J, T, E or N  
Thermocouples Terminated  
with Transmitter Mounting  
Plate**

To order please specify the following:

1. Part reference (see example).
2. Design lengths specified in mm, including immersion length and tail length.
3. Type of junction -insulated (IJ) or bonded (BJ).
4. Any accessories required e.g. Lock nuts or termination glands.
5. Any special test requirements.

**Part Reference Example:**

See table 1 for cables and specifications

**P 2 K - 321 - 60 S**

Categorise Probe

Number of Conductors

Conductor Material

Sheath Material

Overall Cable Diameter x 10 (Metric)

EMF Tolerance

**Junction Types.**

**IJ** - Insulated junction.  
Conductors welded together  
and insulated from sheath.

**BJ** - Bonded Junction.  
Conductors and sheath  
welded together.

**Table 1**

Type K- Nickel Chromium/Nickel Aluminium Conductors							
Overall Diameter		Number of Conductors	Sheath Material			Nominal Loop Resistance	Nominal Conductor Diameter mm
			AISI 321	Alloy 600	AISI 310		
		Maximum Operating Temperature					
		800	1100	1100			
		Cable Ref.			$\Omega/m@20^{\circ}C$		
3.0	±0.03	2	T2K-321-30S	T2K-600-30S	T2K-310-30S	3.50	0.60
3.0		4	T4K-321-30S	T4K-600-30S	T4K-310-30S	10.90	0.34
4.5	±0.05	2	T2K-321-45S	T2K-600-45S	T2K-310-45S	1.56	0.90
6.0		2	T2K-321-60S	T2K-600-60S	T2K-310-60S	0.88	1.20
6.0	±0.05	4	T4K-321-60S	T4K-600-60S	T4K-310-60S	2.73	0.68
6.0		6	T6K-321-60S	T6K-600-60S	T6K-310-60S	10.90	0.68

Type J - Iron/Constantan Conductors							
Overall Diameter		Number of Conductors	Sheath Material			Nominal Loop Resistance	Nominal Conductor Diameter mm
			AISI 321	Alloy 600	-		
		Maximum Operating Temperature					
		750	750	-			
		Cable Ref.			$\Omega/m@20^{\circ}C$		
3.0	±0.03	2	T2J-321-30S	T2J-600-30S	-	2.10	0.60
3.0		4	T4J-321-30S	T4J-600-30S	-	6.60	0.34
4.5	±0.05	2	T2J-321-45S	T2J-600-45S	-	0.94	0.90
4.5		4	T4J-321-45S	T4J-600-45S	-	2.94	0.51
6.0	±0.05	2	T2J-321-60S	T2J-600-60S	-	0.53	1.20
6.0		4	T4J-321-60S	T4J-600-60S	-	1.65	0.68

Type T - Copper/Constantan Conductors							
Overall Diameter		Number of Conductors	Sheath Material			Nominal Loop Resistance	Nominal Conductor Diameter mm
			AISI 321	Cupro Nickel	-		
		Maximum Operating Temperature					
		400	400	-			
		Cable Ref.			$\Omega/m@20^{\circ}C$		
3.0	±0.03	2	T2T-321-30S	-	-	1.80	0.60
6.0	±0.05	2	T2T-321-60S	-	-	0.45	1.20
3.0	±0.03	2	-	T2T-400-30S	-	1.15	0.75
6.0	±0.05	2	-	T2T-400-60S	-	0.29	1.50

