

Thermocouple Probe Data Sheet - 0.5 to 3.0mm Type K, J, T, E or N Thermocouples Terminated with Plain Seal

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 - 15 S

Categorise Probe

Number of Conductors

Conductor Material

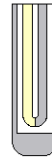
Sheath Material

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.

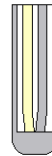


Table 1

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		
mm	±	Cable Ref.			Ω/m@20°C	
0.5	0.02	T2K-321-05S	T2K-600-05S	T2K-310-05S	126.00	0.10
1.0		T2K-321-10S	T2K-600-10S	T2K-310-10S	31.50	0.20
1.5		T2K-321-15S	T2K-600-15S	T2K-310-15S	14.00	0.30
2.0	0.03	T2K-321-20S	T2K-600-20S	T2K-310-20S	7.90	0.40
3.0		T2K-321-30S	T2K-600-30S	T2K-310-30S	3.50	0.60
3.0		T4K-321-30S	T4K-600-30S	T4K-310-30S	10.90	0.34

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	-		
mm	±	Cable Ref.			Ω/m@20°C	
1.5	0.02	T2J-321-15S	T2J-600-15S	-	8.48	0.30
2.0	0.03	T2J-321-20S	T2J-600-20S	-	4.78	0.40
3.0		T2J-321-30S	T2J-600-30S	-	2.10	0.60
3.0		T4J-321-30S	T4J-600-30S	-	6.60	0.34

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	-		
mm	±	Cable Ref.			Ω/m@20°C	
1.5	0.02	T2T-321-15S	-	-	7.18	0.30
3.0	0.03	T2T-321-30S	-	-	1.80	0.60
1.5	0.02	-	T2T-400-15S	-	5.59	0.34
3.0	0.03	-	T2T-400-30S	-	1.15	0.75

immersion Length

Tail Length

20mm