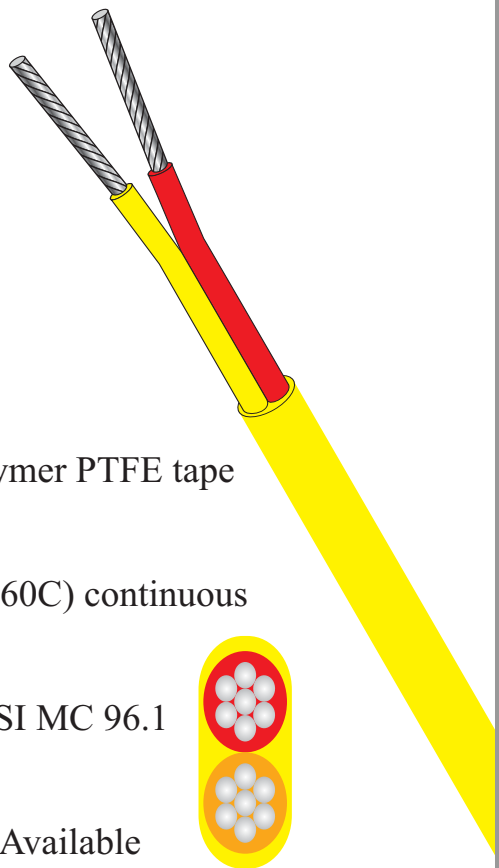
Thermocouple Cable

PTFE Insulated (260 C)

CARSON™ Industrial Cable & Wires

Applications

- Aerospace
- Power Generation
- Laboratories
- Petrochemical Plants
- Cryogenic Applications
- FDA Approved Applications
- Composites



Available Options

- Metal Over braided
- Galvanized Half-Oval Armor
- Twisted/Shielded Pair
- Special Color Codes
- Calibration Test Reports

Construction:
Parallel laid conductors

Jacket:
Two layers of fused fluoropolymer PTFE tape

Operating Temperature:
-328°F (-200°C) to +500F (+260C) continuous

Product Features

- Continuous use up to 500F (260C)
- Excellent Solvent Resistance
- Flame Retardant
- Will Not Melt
- Abrasion Resistant

Limits of Error:
Conforms to IEC 584 and ANSI MC 96.1

Color Code:
All International Color Codes Available

Product Specifications

Conductors:
Solid or stranded thermocouple wire ANSI MC96.1

Insulation:
Two layers of fused fluoropolymer PTFE tape

CONDUCTORS	Number of Strands			7	1	32	1
	Size of Strand	Diamter		0.193	0.559	0.193	0.81
		Total Area		0.20	0.25	0.94	0.52
		Approx. Gauge	SWG	36	24	36	21
			AWG	32	23	32	20
PAIRS	Number of Pairs			1			
	Laid flat ot Twisted			Laid Flat			
	Screen[1]			No			

Hi Temp SOLUTIONS

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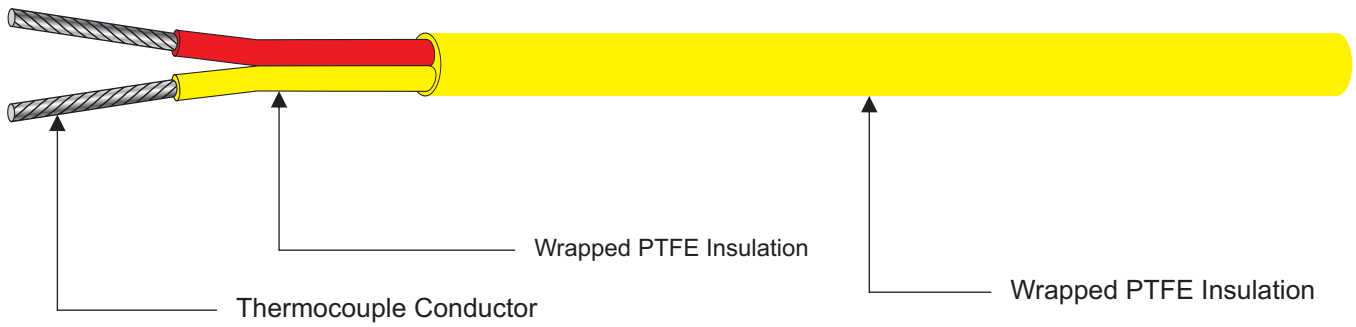
Table 1
Calibration Tolerance

Type of Thermocouple	K KP-KN			J JP-JN			E EP-EN			T TP-TN			N NP-NN		
Temp	EMF	Tolerance		EMF	Tolerance		EMF	Tolerance		EMF	Tolerance		EMF	Tolerance	
°C	mV	°C	%	mV	°C	%	mV	°C	%	mV	°C	%	mV	°C	%
-200	-	± 2.2	± 2	-	-	-	-	-	-	-5.603			-		
-100	-			-			-			-3.378			-		
0	0	-		0	-	-	0	-	-	0	-	-	0	-	-
100	4.098			5.268			6.317			4.277			2.773		
200	8.137			10.777			13.419			9.286	± 1	± 0.75	5.911		
300	12.207			16.325			21.033			14.860			9.34		
400	16.395			21.846	± 2.2	± 0.75	28.943	± 1	± 0.50	20.869			12.972		
500	20.64			27.388			36.999			-			16.744		
600	24.902	± 2.2	± 0.75	33.096			45.058			-			20.609	± 2.2	± 0.75
700	29.128			39.096			53.110			-			24.525		
800	33.277			45.498			61.022			-	-		28.456		
900	37.325			-			68.783			-			32.370		
1000	41.269			-	-		-	-		-			36.248		
1100	45.108			-			-			-			40.076		
1200	48.828			-			-			-			43.835		
1300	52.398	-		-			-			-			47.502	-	

- Thermocouple material is normally supplied to meet tolerances above 0C (32F). If material is required to meet tolerances below 0C (32F), the purchase order must so state. Special selection of material is required.
- Suggested initial calibration tolerance. Requirements should be discussed between purchaser and supplier.
- Copper vs. copper can be used as an extension for Type B thermocouples if the transition is below 100C (212F). Above 100C (212F), PCLW30-6 alloy should be used as the positive extension wire.



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