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**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

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**Product Description: 30 AWG (Solid), Type J, Duplex Parallel Thermocouple Wire with Glass Serve Insulation and Glass Braid Jacket.**

-NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED-

<b>A. Construction</b>		<u><b>Diameters</b></u>
1) Conductors		
a) Conductor 1 Material	30 AWG (Solid) Iron	0.010
b) Conductor 2 Material	30 AWG (Solid) Constantan	0.010
c) Insulation	0.004" Wall, Served Fiberglass with +200°C Rated Silicone Impregnation	0.018
(1) Serve	100% coverage	
(2) Color Code	Iron, White Constantan, Red	
2) Cable Assembly	2 Insulated Conductors, Duplex Parallel	
3) Jacket	0.006" Wall, Braided Fiberglass with +200°C Rated Silicone Impregnation	.030 x .048
a) Color(s)	Brown	
b) Tracer	Black	
<b>B. Industry Approvals</b>		
1) ANSI	MC96.1, Latest Issue	
2) ASTM	E230, Latest Issue	
<b>C. Physical &amp; Mechanical Properties</b>		
1) Temperature Range	-20 to 510°C (Impregnation is maintained to 200°C)	
2) Bend Radius	10X Cable Diameter	
3) Weight	1.3 pounds/1000 ft.	
<b>D. Electrical Properties</b>		
1) Conductor Type	J, Standard Grade	
2) Nominal Temperature Range	-210 to 760° C	
3) Calibration Limits	+/- 2.2° C or +/- 0.75%, whichever is greater, from 0 to 750° C	