

**Part Number: C1X-WBWX-24G-EX-BWXX-12**

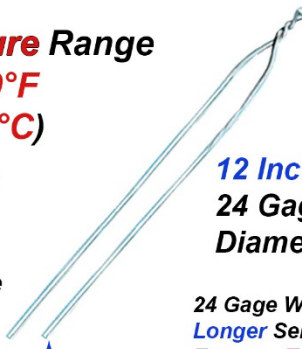
**Product Description:** Type C Thermocouple - Rugged 24 Gage (.020" or 0.51mm) Diameter Beaded Bare Wire Design - 12 Inches Long

**Type C Thermocouple  
Rugged 24 Gage (.020")  
Bare Wire Diameter Design**

**Temperature Range**  
**32 to 4200°F**  
**(0 to 2315°C)**

**Positive Wire**  
Tungsten with  
5% Rhenium

**Negative Wire**  
Tungsten with  
26% Rhenium



**Negative  
Wire Shorter**

**12 Inch Long  
24 Gage (.020")  
Diameter Wire**

**24 Gage Wire Provides  
Longer Sensor Life at  
Extreme Temperatures**

**CERTIFICATION OF THERMOELECTRIC CALIBRATION**

Customer:  
Address:

Date:  
S.O. Number:

Product Information					
Bill# No.	Qty	Count	Norm. Dia.	Std. No.	
W5816	5827	100 feet	0.020 in	9999	
W5816	20002	100 feet	0.020 in	20000	

Departure from ASTM E-230 Standard Curve					
Temp. °F	E-230 Nominal	Deviation mv	Deviation °F	Net Output	
200	1.348	-0.036	-4.2	1.312	
400	3.166	-0.020	-2.1	3.146	
600	5.150	0.019	1.8	5.169	
800	7.341	-0.056	-2.2	7.285	
1000	9.363	0.077	2.1	9.440	
1200	11.563	0.076	2.0	11.639	
1400	13.723	0.065	1.1	13.788	
1600	15.852	0.032	3.0	15.884	
1800	17.933	-0.000	0.3	17.933	
2000	19.945	-0.013	-1.3	19.932	
2200	21.920	-0.002	-2.1	21.918	
2400	23.778	-0.025	-2.1	23.753	
2600	25.581	-0.014	-1.6	25.567	
2800	27.308	-0.008	-0.8	27.300	
3000	28.981	-0.016	-2.0	28.965	
3200	30.538	0.033	4.3	30.671	
3400	32.036	0.053	7.3	32.089	
3600	33.491	0.071	19.6	33.562	
3800	34.772	0.090	14.2	34.862	
4000	35.987	0.079	13.7	35.068	
4200	37.078	-0.002	-0.4	37.076	

Temperature defined by ITS90. Reference Junction temperature is 32°F.  
All calibrations are traceable to NIST through the secondary standard referenced to 200°C. At 4200° & 4200°C calibrations are compared to values extrapolated from NIST certification using a 6th order polynomial.

*Jim Ferguson*

Thermocouple Type	C Calibration (Positive Wire: 95% Tungsten, 5% Rhenium) (Negative Wire: 74% Tungsten, 26% Rhenium)
Thermocouple Junction	Fast Response Exposed Welded Bead
Thermocouple Wire Diameter	.020" (24 AWG gage or 0.51 mm)
Probe Sheath Material	No Sheath – Bare Wire Design
Probe Junction Temperature Range	32 to 4200°F (0 to 2315°C)
Instrument Termination	Bare Wire Leads
Color Coding	No Color – Bare Wire