



## Type "CX" Thermocouple Extension Wire Insulated

(Alloy 405 vs. Alloy 426) ANSI Color Code: Positive – Orange, Negative – Red, Overall – Orange/Black Tracer

Insulation	Gage	Code	Solid/Stranded	Normal Size	Insulation Temp. Rating
Glass Braided Duplex-	24	CX-24-	Solid	.050 x .090	482C (900F)
Parallel Braided		GG40			
Jacket					

## THERMOCOUPLE AND THERMOCOUPLE EXTENSION WIRE COLOR CODES

R	S	В	С	Thermocouple wire Letter Designator	
(+) Platinum 13% Rhodium	(+) Platinum 10% Rhodium	(+) Platinum 30% Rhodium	(+) Tungsten 5% Rhenium	Alloy Combination & Polarity	
(-) Platinum	(-) Platinum	(-) Platinum 6% Rhodium	(-) Tungsten 26% Rhenium	a rounty	
NOT AVAILABLE	NOT	NOT AVAILABLE	NOT AVAILABLE	Insulated Thermocouple Wire Color Code	
INSULATED	INSULATED	INSULATED	INSULATED	Note: Some insulations cannot be color coded	
			4200°F (2300°C)	Bare Wire	
2650°F (1450°C)	2650°F (1450°C)	3100°F (1700°C)	(for vacuum or inert atmospheres)	Temperature Range	
		1600°F (870°C)		Note: Smaller wire sizes have shorter T/C	
32°F (0°C) -	32°F (0°C)	-	800°F (400°C)	life at higher temperatures	

RX	SX	вх	CX	T/C Extension wire Letter Designator
(+) Copper -) Copper Alloy II	(+) Copper (-) Copper Alloy II	(+) Copper Alloy 630 (-) Copper	(+) Copper Alloy 405 (-) Copper Alloy 426	Alloy Combination & Polarity
RED (-) GREEN	BLACK (+) RED (-) GREEN	GREY (+) RED (-) GREY	WHITE/RED (+) RED (-) WHITE/ RED	Insulated T/C Extension wire Color Code
			1600°F (870°C)	
400°F (200°C)	400° F (200° C)	400°F (200°C)		Bare Extension Wire Temperature
	75°F (25°C)	1		Range





## THERMOCOUPLE AND THERMOCOUPLE EXTENSION WIRE GENERAL

Example: J-20-GG40

Type J, T/C Grade, Standard Tolerance, Solid, 20 GA., Glass/Glass Insulation, Parallel, No Overbraid

CONDUCTOR: T/C Type/

Solid or Standard

Grade - T/C or Extension Tolerance

WIRE GA .:

20

INSULATION: CONDUCTOR OVERALL

G

CONSTRUCTION: PROTECTIVE

4

0

0

1 2

**OVERBRAID** 

CODE OVERBRAID NONE

SS

INCONEL

J	
1	
CODE	
Т	10
J	
E	
K	
N	
TX	
 JX	
EX	•
NX	
RX	
SX	
BX	

## NOTES:

K - TYPE K. Standard Tolerance T/C Grade, Solid Conductors

CX

- KK Special Tolerance KX - Extension Grade
- KF Stranded Conductors (Flexible)
- For Single Conductor KPF Type K Positive leg Standard Tolerance T/C Grade Stranded Conductor

KNF - TYPE K -Negative leg

1
CODE
14
16
18
20
24
30
36
40

INSULATION	CODE	CODE
NONE	-	0
PVC	Р	P
Silicone Rubber	L	L
Extruded Teflon FEP	E	E
Extruded Teflon PFA	F	F
Taped Teflon TFE	Т	Т
Kapton	K	K
Synthetic Fiber	S	s
Wrapped Glass	w	-
Glass Braid	G	G
Hi-Temp Glass	Н	Н
Refrasil	R	R
Ceramic	C	C

<sup>&</sup>quot;-" designates not available.

CONSTRUCTION	CODE
Insulated Single	1
Insulated Duplex - Ripcord	3
Insulated Duplex - Paralleled with Overall Jacket	4
Insulated Duplex - Twisted	7
Insulated Duplex - Twisted with Overall Jacket	8
Insulated Duplex - Twisted with Mylar backed Al. Shield and Overall Jacket	9