



**THERMOCOUPLE EXTENSION WIRE**  
**SHIELDED PAIRS WITH OVERALL SHIELD TYPES EX AND TX**  
**TYPE PLTC PVC INSULATED 105DEG C 300VOLTS**

**CONSTRUCTION:**

**CONDUCTOR** SOLID ALLOYS PER ANSI STANDARDS. (SEE TABLE BELOW).

**INSULATION** 15MILS PVC COLOR CODED PER ANSI STANDARDS.

**PAIRS** INSULATED CONDUCTORS TWISTED INTO PAIRS. COLOR CODED PER ANSI STANDARDS. ONE CONDUCTOR IN EACH PAIR IS ALSO NUMBERED FOR PAIR IDENTIFICATION. PAIRS CABLED TOGETHER WITH ALUMINUM/MYLAR TAPE SHIELD AND TINNED COPPER DRAIN TO PROVIDE 100% SHIELDING COVERAGE.

**OVERALL SHIELD** SHIELDED PAIRS CABLED TOGETHER WITH OVERALL ALUMINUM/MYLAR TAPE SHIELD AND TINNED COPPER DRAIN WIRE.

**JACKET** SUNLIGHT AND MOISTURE RESISTANT, FLAME RETARDANT PVC COLOR CODED PER ANSI STANDARDS.

Charlotte Wire Part#	A.N.S.I. Type	Size AWG	Number of Pairs	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW06321	EX	20	2	.040"	.35"	60
CW06322	EX	20	4	.050"	.46"	104
CW06323	EX	20	8	.050"	.57"	170
CW06324	EX	20	12	.060"	.67"	255
CW06325	EX	20	16	.060"	.75"	305
CW06326	EX	20	24	.060"	.92"	460
CW06327	EX	20	36	.070"	1.05"	630
CW06328	TX	20	2	.040"	.35"	60
CW06329	TX	20	4	.050"	.46"	104
CW06330	TX	20	8	.050"	.57"	170
CW06331	TX	20	12	.060"	.67"	255
CW06332	TX	20	16	.060"	.75"	305
CW06333	TX	20	24	.060"	.92"	460
CW06334	TX	20	36	.070"	1.05"	630

**APPLICATION:**

Suitable for the relay of temperature measurement signals in petrochemical plants, power plants, and fiber plants. Per NEC Art.725, approved for installation in  
 1) cable trays indoors and outdoors,  
 2) raceways,  
 3) supported by a messenger wire,  
 4) hazardous locations per NEC Article 501 Class 1 Division 2, and  
 5) cable trays in hazardous locations per NEC Article 502 Class 2 Division 2.

**STANDARDS:**

UL Subject 13.  
 Passes UL and IEEE 383 70,000BTU flame test.  
 NEC Article 725 Class 2 & 3.

**OPTIONAL CONSTRUCTIONS:**

Other sizes including 18 & 16.  
 Type RX and SX alloy.

**THERMOCOUPLE IDENTIFICATION:**

A.N.S.I. Type	Conductor Type		Color Coding		Overall Jacket	Limits of Error (Deg C)
	Positive Wire	Negative Wire	Positive Wire	Negative Wire		
JX	Iron	Constantan	White	Red	Black	+/-2.2Deg C
KX	Chromel	Alumel	Yellow	Red	Yellow	+/-2.2Deg C
EX	Chromel	Constantan	Purple	Red	Purple	+/-1.7Deg C
TX	Copper	Constantan	Blue	Red	Blue	+/-1.0Deg C
RSX*	Copper	Cu Alloy #11	Black	Red	Green	+/-5.0Deg C

\*Types RX and SX utilize the same ANSI conductors alloys and color code.