Charlotte™ Wire & Cable Company Inc.

"Taking Care of Business"

toll free: 800-929-9473

THERMOCOUPLE EXTENSION WIRE

SINGLE PAIR SOLID, NONSHIELDED PVC INSULATION AND JACKET TYPE PLTC, 105DEGREES C, 300VOLTS

CONSTRUCTION:

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

INSULATION 15MILS POLYVINYL CHLORIDE (PVC) COLOR CODED PER ANSI STANDARDS.

ASSEMBLY INSULATED CONDUCTORS ARE TWISTED TOGETHER.

JACKET POLYVINYL CHLORIDE (PVC) COLORED PER ANSI STANDARDS. RATED FOR CONTINUOUS USE FROM -20DEG C(-29DEG F) TO +105DEG C(221DEG F). THICKNESS PER UL PLTC STANDARD.

Charlotte Wire Part#	A.N.S.I. Type	Size AWG	Insulation Thickness (in.)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW06461	JX	20	.015"	.035"	.21"	23
CW06462	JX	18	.015"	.035"	.23"	28
CW06463	JX	16	.015"	.035"	.25"	36
CW06464	KX	20	.015"	.035"	.21"	23
CW06465	KX	18	.015"	.035"	.23"	28
CW06466	KX	16	.015"	.035"	.25"	36
CW06467	EX	20	.015"	.035"	.21"	23
CW06468	EX	16	.015"	.035"	.25"	36
CW06469	TX	20	.015"	.035"	.21"	23
CW06470	TX	16	.015"	.035"	.25"	36
CW06471	RSX	20	.015"	.035"	.21"	23
CW06472	RSX	16	.015"	.035"	.25"	36
CW06473	NX	20	.015"	.035"	.21"	23
CW06474	NX	16	.015"	.035"	.25"	36

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:

Special calibration tolerance.
Other sizes including 14AWG.

THERMOCOUPLE IDENTIFICATION:

	Conductor Type		Color Coding			
A.N.S.I. Type	Positive Wire	Negative Wire	Positive Wire	Negative Wire	Overall Jacket	Limits of Error (Deg C)
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
NX	Nicrosil	Nisil	Orange	Red	Orange	+/-2.2Deg C

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