

300 Volt • Single Pair • Unshielded

VOLTAGE
300V


TEMPERATURE
105°C

TYPE
PLTC/ITC/CL3

CONSTRUCTION:

Conductor: Solid alloy
ANSI MC 96.1-1982
Insulation: Color Coded PVC
Separator: Polyester tape
Rip Cord: Nylon
Jacket: Color Coded PVC

SPECIFICATIONS:

 NEC IEEE
UL Listed Subject 83, 2250
ANSI/MC 96.1-1982
NEC Article 501
Class 1, Division 2
NEC Article 727
NEC Article 725
NEC Type PLTC/ITC/CL3
IEEE 383 70,000 BTU
UL 1581



DESCRIPTION:

For: Thermocouple circuits that do not require shielding.

Color Code: ANSI color code insulation and jacket per type.

PART NO.	COND SIZE AWG	NOM. INSUL. THICKNESS INCHES	NOM. INSUL. THICKNESS MM	NOM. JKT. THICKNESS INCHES	NOM. JKT. THICKNESS MM	NOM O.D. INCHES	NOM O.D> MM	APPROX. WT/M' LBS.
CHROMEL/CONSTANTAN - TYPE EX								
M9000011	#20	0.015	0.381	0.035	0.890	0.205	5.21	28
M9006011	#16	0.015	0.381	0.035	0.890	0.235	5.97	36
IRON/CONSTANTAN - TYPE JX								
M9000012	#20	0.015	0.381	0.035	0.890	0.205	5.21	28
M9006012	#16	0.015	0.381	0.035	0.890	0.235	5.97	36
CHROMEL/ALUMEL - TYPE KX								
M9000013	#20	0.015	0.381	0.035	0.890	0.205	5.21	28
M9006013	#16	0.015	0.381	0.035	0.890	0.235	5.97	36
COPPER/CONSTANTAN - TYPE TX								
M9000014	#20	0.015	0.381	0.035	0.890	0.205	5.21	28
M9006014	#16	0.015	0.381	0.035	0.890	0.235	5.97	36

300 Volt • Single Pair • Foil Shield - Overall

VOLTAGE
300V


TEMPERATURE
105°C

TYPE
PLTC/ITC/CL3

CONSTRUCTION:

Conductor: Solid alloy
ANSI MC 96.1-1982
Insulation: Color Coded PVC
Shield: Aluminum/polyester foil
Drain Wire: Stranded tinned copper
(same AWG size as conductor)
Rip Cord: Nylon
Jacket: Color Coded PVC

SPECIFICATIONS:

 NEC IEEE
UL Listed Subject 83, 2250
ANSI/MC 96.1-1982
NEC Article 501
Class 1, Division 2
NEC Article 727
NEC Article 725
NEC Type PLTC/ITC/CL3
IEEE 383 70,000 BTU
UL 1581



DESCRIPTION:

For: Thermocouple circuits requiring superior noise rejection.

Color Code: ANSI color code insulation and jacket per type.

PART NO.	COND SIZE AWG	NOM. INSUL. THICKNESS INCHES	NOM. INSUL. THICKNESS MM	NOM. JKT. THICKNESS INCHES	NOM. JKT. THICKNESS MM	NOM O.D. INCHES	NOM O.D> MM	APPROX. WT/M' LBS.
CHROMEL/CONSTANTAN - TYPE EX								

M9020011	#20	0.015	0.381	0.035	0.890	0.205	5.21	31
M9026011	#16	0.015	0.381	0.035	0.890	0.235	5.97	41
IRON/CONSTANTAN - TYPE JX								
M9020012	#20	0.015	0.381	0.035	0.890	0.205	5.21	31
M9026012	#16	0.015	0.381	0.035	0.890	0.235	5.97	41
CHROMEL/ALUMEL - TYPE KX								
M9020013	#20	0.015	0.381	0.035	0.890	0.205	5.21	31
M9026013	#16	0.015	0.381	0.035	0.890	0.235	5.97	41
COPPER/CONSTANTAN - TYPE TX								
M9020014	#20	0.015	0.381	0.035	0.890	0.205	5.21	31
M9026014	#16	0.015	0.381	0.035	0.890	0.235	5.97	41

Specifying Agencies

The American National Standards Institute - ANSI and the Instrument Society of America - ISA have established stringent standards of calibration to govern the specifications of manufacture of thermocouple extension wire and cable.

Manhattan/CDT's product line of these items fully complies with these standards, and Table III. Indicates the ANSI color code to insure positive identification.

Table III - ANSI/ISA Color Code

All pairs are numbered for identification

Type		Material		Color Code		Overall Jacket	
Extension	Grade	Positive Wire	Negative Wire	Positive Wire	Negative Wire	Extension	Grade
JX	J	Iron	Constantan	White	Red	Black	Brown
KX	K	Chromel®	Alumel®	Yellow	Red	Yellow	Brown
TX	T	Copper	Constantan	Blue	Red	Blue	Brown
EX	E	Chromel®	Constantan	Purple	Red	Purple	Brown
RX,SX	----	Copper	Copper Alloy #11	Black	Red	Green	N/A