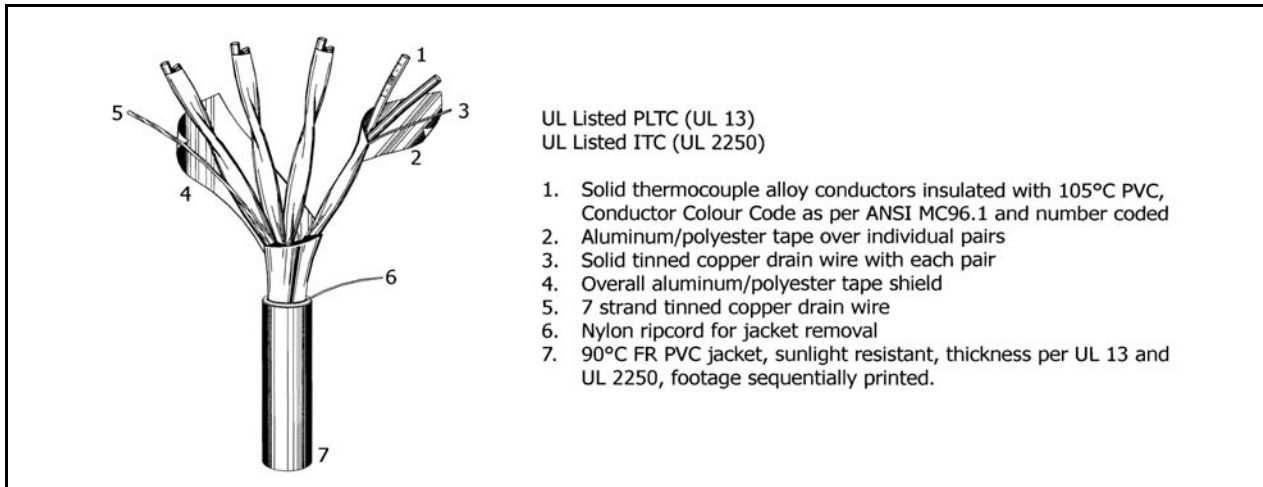


## 300V PVC PLTC/ITC THERMOCOUPLE CABLE OVERALL AND INDIVIDUAL SHIELD



UL Listed PLTC (UL 13)  
UL Listed ITC (UL 2250)

1. Solid thermocouple alloy conductors insulated with 105°C PVC, Conductor Colour Code as per ANSI MC96.1 and number coded
2. Aluminum/polyester tape over individual pairs
3. Solid tinned copper drain wire with each pair
4. Overall aluminum/polyester tape shield
5. 7 strand tinned copper drain wire
6. Nylon ripcord for jacket removal
7. 90°C FR PVC jacket, sunlight resistant, thickness per UL 13 and UL 2250, footage sequentially printed.

USAWC PART #	# of Pairs	UNARMORED			INTERLOCKED ALUMINUM ARMOR		
		Jacket Thickness In.	Nominal OD In.	Weight lbs/1000 ft	Jacket Thickness In.	Nominal OD In.	Weight lbs/1000 ft
<b>20 AWG</b>							
20-01POSKXPVC	1	.035	.203	24	.035	.501	104
20-02SPOSKXPVC	2	.040	.322	58	.040	.630	164
20-04SPOSKXPVC	4	.040	.367	81	.040	.675	202
20-06SPOSKXPVC	6	.050	.455	122	.040	.762	261
20-08SPOSKXPVC	8	.050	.488	148	.040	.796	296
20-12SPOSKXPVC	12	.050	.584	208	.050	.912	393
20-16SPOSKXPVC	16	.060	.666	272	.050	.994	477
20-24SPOSKXPVC	24	.060	.812	389	.050	1.160	633
20-36SPOSKXPVC	36	.070	.949	566	.050	1.297	842
20-50SPOSKXPVC	50	.070	1.088	756	.050	1.436	1066
<b>18 AWG</b>							
18-01POSKXPVC	1	.035	.231	32	.035	.529	118
18-02SPOSKXPVC	2	.040	.372	75	.040	.680	196
18-04SPOSKXPVC	4	.050	.448	118	.040	.756	257
18-06SPOSKXPVC	6	.050	.530	167	.040	.838	323
18-08SPOSKXPVC	8	.050	.571	206	.050	.899	388
18-12SPOSKXPVC	12	.060	.709	305	.050	1.036	520
18-16SPOSKXPVC	16	.060	.784	384	.050	1.132	621
18-24SPOSKXPVC	24	.070	.987	574	.050	1.335	860
18-36SPOSKXPVC	36	.070	1.125	808	.050	1.473	1127
18-50SPOSKXPVC	50	.080	1.316	1109	.050	1.664	1474
<b>16 AWG</b>							
16-01POSKXPVC	1	.035	.253	43	.035	.551	133
16-02SPOSKXPVC	2	.050	.432	106	.040	.740	241
16-04SPOSKXPVC	4	.050	.495	160	.040	.803	309
16-06SPOSKXPVC	6	.050	.590	228	.050	.917	415
16-08SPOSKXPVC	8	.060	.657	299	.050	.985	502
16-12SPOSKXPVC	12	.060	.791	426	.050	1.139	665
16-16SPOSKXPVC	16	.060	.877	540	.050	1.225	800
16-24SPOSKXPVC	24	.070	1.106	811	.050	1.454	1126
16-36SPOSKXPVC	36	.070	1.264	1153	.050	1.612	1505
16-50SPOSKXPVC	50	.080	1.479	1589	.050	1.827	1993

Replace K in the part number with E for EX, J for JX, N for NX, S for SX and T for TX.

Replace PVC in the part number with AIA for Aluminum Interlocked Armor

Replace PVC in the part number with SWA for Steel Served Wire Armor

Jackets: KX - yellow jacket, EX - purple jacket, JX - black jacket, NX - orange jacket, SX - green jacket, TX - blue jacket

Solid conductors are standard; stranded is available upon request.

## 300V PVC PLTC/ITC THERMOCOUPLE CABLE

- Conductors:** Solid thermocouple extension alloy conductors as per ANSI MC96.1. Stranded thermocouple extension alloys are available upon request.
- Insulation:** 105°C PVC. Minimum average insulation thickness for 20,18 and 16 AWG is .0015 in.
- Conductor Assembly:** Two insulated conductors are twisted together to form a pair. Individually shielded pairs have a finished lay of 2.5 inches. Unshielded pairs have staggered lays to reduce electromagnetic interference and cross talk.
- Shielding:** Pairs are shielded with 100% coverage aluminum/polyester tape and include a tinned copper drain wire. Shield tape provides total shield isolation from all other shields. Cabled pairs and triads are overall shielded with 100% coverage aluminum/polyester tape including a 20 AWG, seven strand tinned copper drain wire. Aluminum/polyester tape thickness is .00135 in. Overall shielded designs with copper tape or braided tinned copper are also available.
- Conductor Identification:** Thermocouple pairs are color coded as per ANSI MC96.1 and number coded. Color coded conductors and extruded stripes are available upon request.
- Jacket:** 90°C FR PVC, sunlight resistant, thickness per UL 13 and UL 2250, footage sequentially printed.
- Thermocouple extension cables use the ANSI color corresponding to the thermocouple extension alloy type contained in the construction. Additional colors are available upon request.
- UL Listing Features:** UL listed 300V Power Limited Tray Cable (PLTC)/Instrumentation Tray Cable (ITC) to UL 13 and UL 2250:  
 For use in Class I, Zone 2 and Class II, Division 2 Hazardous Locations  
 Sunlight Resistant  
 Passes 70,000 BTU Vertical Tray Flame Tests for IEEE 383, IEEE 1202 and UL 1685  
 Overall cable rated 105°C per UL
- Optional Armor and Jacket:** Optional galvanized steel and aluminum interlocked armor may be supplied. The armor is covered with the same FR PVC jacket as the inner jacket.
- Galvanized steel served wire armor is also available and is recommended for vertical riser applications.
- Elements:**
- |    |                       |
|----|-----------------------|
| JX | +Iron, -Constantan    |
| KX | +Chromel, -Alumel     |
| TX | +Copper, -Constantan  |
| EX | +Chromel, -Constantan |
| NX | +Nicrosil, -Nisil     |
| SX | +Copper, -Alloy 11    |