

THERMOCOUPLE



- ▶ Pairs
- ▶ PVC
- ▶ PVC
- ▶ OS/SPOS
- ▶ Type PLTC/ITC
- ▶ 300V

PRODUCT CONSTRUCTION

Conductor: Solid thermocouple extension alloy conductors per ANSI MC96.1.

Insulation: 105°C PVC. Minimum average insulation thickness for 20 and 16 AWG is .0015 in.

Shield: 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 are overall shielded with 100% coverage aluminum/polyester with 100% coverage aluminum/polyester tape, including a 20 AWG, seven-strand tinned copper drain wire. Aluminum/polyester tape thickness of .00135 in. Overall shielded designs with copper tape or braided tinned copper are also available.

Jacket: 105°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.

APPLICATIONS

UL listed 300 V 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 industrial hazardous locations per NEC.

FEATURES

Sunlight-resistant. Overall cable rated 105°C per UL.

COMPLIANCES

Flame Test: UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202.

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. 300 V is standard; 600 V is available upon request.

Replace underscore with alloy type.

USAWC Part #	No. of Pairs	Size (AWG)	Jacket Thickness (Inches)	Nominal OD (Inches)	Weight (lbs./1000 ft.)
USA20-01POS_XPVC	1	20	.035	.203	24
USA20-02SPOS_XPVC	2	20	.040	.322	58
USA20-04SPOS_XPVC	4	20	.040	.367	81
USA20-08SPOS_XPVC	8	20	.050	.488	148
USA20-12SPOS_XPVC	12	20	.050	.584	208
USA20-16SPOS_XPVC	16	20	.060	.666	272
USA20-24SPOS_XPVC	24	20	.060	.812	389
USA20-36SPOS_XPVC	36	20	.070	.949	566
USA20-50SPOS_XPVC	50	29	.070	1.088	756
USA16-01POS_XPVC	1	16	.035	.253	43
USA16-02SPOS_XPVC	2	16	.050	.432	106
USA16-04SPOS_XPVC	4	16	.050	.495	160
USA16-08SPOS_XPVC	8	16	.060	.657	299
USA16-12SPOS_XPVC	12	16	.060	.791	426
USA16-16SPOS_XPVC	16	16	.060	.877	540
USA16-24SPOS_XPVC	24	16	.070	1.106	811
USA16-36SPOS_XPVC	36	16	.070	1.264	1153
USA16-50SPOS_XPVC	50	16	.080	1.479	1589