

INSTRUMENTATION



- ▶ **Pairs**
- ▶ **XLP**
- ▶ **PVC**
- ▶ **SPOS**
- ▶ **Type PLTC/ITC**
- ▶ **300V**

PRODUCT CONSTRUCTION

Conductor: Solid thermocouple extension alloy conductors per ANSI MC96.1. Stranded thermocouple extension alloys available upon request.

Insulation: 105°C PVC. Minimum average insulation thickness for 20, 18 and 16 AWG is .0015 in. VW-1 rated conductors are available upon request.

Shield: Pairs are shielded with 100% coverage aluminum/polyester tape and include a 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. Suitable for -70°C environment. Black 90°C FR, sunlight-resistant Thermoset Chlorosulfonated Polyethylene (CSPE), commonly referred to as Hypalor®, rated Oil Res I and Oil Res II. 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 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 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.

| USAWC PART # | # of Pairs | UNARMORED | | | INTERLOCKED ALUMINUM ARMOR | | |
|--------------------|------------|---------------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|---------------------------|
| | | Jacket Thickness (Inches) | Nominal OD (Inches) | Weight (lbs./1000 ft.) | Jacket Thickness (Inches) | Nominal OD (Inches) | Weight (lbs./1000 ft.) |
| 20 AWG | | | | | | | |
| USA20-01POS_XXCPE | 1 | .035 | .215 | 26 | .040 | .523 | 113 |
| USA20-02SPOS_XXCPE | 2 | .040 | .344 | 60 | .050 | .672 | 184 |
| USA20-04SPOS_XXCPE | 4 | .040 | .393 | 85 | .050 | .721 | 225 |
| USA20-06SPOS_XXCPE | 6 | .050 | .487 | 128 | .050 | .815 | 290 |
| USA20-08SPOS_XXCPE | 8 | .050 | .524 | 157 | .050 | .852 | 329 |
| USA20-12SPOS_XXCPE | 12 | .050 | .649 | 231 | .050 | .977 | 432 |
| USA20-16SPOS_XXCPE | 16 | .060 | .717 | 288 | .050 | 1.044 | 505 |
| USA20-24SPOS_XXCPE | 24 | .060 | .877 | 410 | .050 | 1.225 | 669 |
| USA20-36SPOS_XXCPE | 36 | .070 | 1.024 | 597 | .050 | 1.372 | 891 |
| USA20-50SPOS_XXCPE | 50 | .070 | 1.177 | 794 | .050 | 1.525 | 1125 |
| 18 AWG | | | | | | | |
| USA18-01POS_XXCPE | 1 | .035 | .231 | 32 | .050 | .559 | 134 |
| USA18-02SPOS_XXCPE | 2 | .040 | .372 | 74 | .050 | .700 | 209 |
| USA18-04SPOS_XXCPE | 4 | .050 | .448 | 117 | .050 | .775 | 270 |
| USA18-06SPOS_XXCPE | 6 | .050 | .530 | 165 | .050 | .858 | 338 |
| USA18-08SPOS_XXCPE | 8 | .050 | .571 | 204 | .050 | .899 | 386 |
| USA18-12SPOS_XXCPE | 12 | .060 | .709 | 302 | .050 | 1.036 | 517 |
| USA18-16SPOS_XXCPE | 16 | .060 | .784 | 380 | .050 | 1.132 | 617 |
| USA18-24SPOS_XXCPE | 24 | .070 | .987 | 568 | .050 | 1.335 | 854 |
| USA18-36SPOS_XXCPE | 36 | .070 | 1.125 | 799 | .050 | 1.473 | 1118 |
| USA18-50SPOS_XXCPE | 50 | .080 | 1.316 | 1097 | .060 | 1.684 | 1493 |
| 16 AWG | | | | | | | |
| USA16-01POS_XXCPE | 1 | .035 | .253 | 42 | .050 | .581 | 149 |
| USA16-02SPOS_XXCPE | 2 | .050 | .432 | 106 | .050 | .760 | 255 |
| USA16-04SPOS_XXCPE | 4 | .050 | .495 | 159 | .050 | .823 | 323 |
| USA16-06SPOS_XXCPE | 6 | .050 | .590 | 226 | .050 | .917 | 413 |
| USA16-08SPOS_XXCPE | 8 | .060 | .657 | 297 | .050 | .985 | 500 |
| USA16-12SPOS_XXCPE | 12 | .060 | .791 | 422 | .050 | 1.139 | 661 |
| USA16-16SPOS_XXCPE | 16 | .060 | .877 | 535 | .050 | 1.225 | 795 |
| USA16-24SPOS_XXCPE | 24 | .070 | 1.106 | 804 | .050 | 1.454 | 1119 |
| USA16-36SPOS_XXCPE | 36 | .070 | 1.264 | 1143 | .050 | 1.612 | 1495 |
| USA16-50SPOS_XXCPE | 50 | .080 | 1.479 | 1575 | .060 | 1.647 | 2013 |

Replace CPE in the part number with AIA for Aluminum Interlocked Armor. Replace CPE 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 is standard; 600V is available upon request