

# INSTRUMENTATION



- ▶ Pairs
- ▶ PVC/Nylon
- ▶ PVC
- ▶ SPOS
- ▶ Type TC
- ▶ 600V

## PRODUCT CONSTRUCTION

**Conductor:** 18 AWG and 16 AWG bare, annealed copper per ASTM B3. Class B stranding per ASTM B8.

**Insulation:** Flame-retardant Polyvinyl Chloride (PVC) with clear Polyamide (nylon). Color-coded per ICEA Method 1: Pairs – black and white. One conductor in each pair is printed alphanumerically for easy identification.

**Shield:** *Individual and overall shielded pairs.* Individual triads are 100% shielded with aluminum/polyester in contact with stranded tinned copper drain wire. Overall shield is aluminum/polymer in contact with stranded tinned copper drain wire.

**Jacket:** Lead-free, sunlight-resistant Polyvinyl Chloride (PVC).

## APPLICATIONS

In free air, raceways or direct burial. In wet or dry locations. Permitted for use in Class I, Division 2 industrial hazardous locations per NEC.

## FEATURES

Rated at 90°C dry, 75°C wet. Ripcord applied to all cables with jacket thickness of 60 mils or less. Provides sunlight, cold bend and cold impact resistance. Offers the smallest cable O.D. available for suitable applications. Provides excellent oil and chemical resistance. Meets cold bend test at -25° C.

## COMPLIANCES

**Industry:** UL 1277 Type TC. UL 1581. NEC Type TFN conductors. ICEA S-73-532/NEMA WC57.

**Flame Test:** UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4.

**Other:** EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable. RoHS compliant.

USAWC Part #	No. of Pairs	Size Strands	Insulation Thickness (Mils) (PVC/Nylon)	Jacket Thickness (Mils)	Nominal OD (Inches)	Copper Weight (lbs./1000 ft.)	Approx. Net Wt. (lbs./1000 ft.)
USA18-02SPOSVNTC	2	18 7/Str	15/4	47	.429	30	96
USA18-04SPOSVNTC	4	18 7/Str	15/4	47	.498	55	139
USA18-08SPOSVNTC	8	18 7/Str	15/4	62	.678	105	257
USA18-12SPOSVNTC	12	18 7/Str	15/4	62	.819	156	359
USA18-16SPOSVNTC	16	18 7/Str	15/4	82	.951	207	490
USA18-24SPOSVNTC	24	18 7/Str	15/4	82	1.169	302	695
USA18-36SPOSVNTC	36	18 7/Str	15/4	82	1.336	452	987
USA18-50SPOSVNTC	50	18 7/Str	15/4	82	1.572	628	1314
USA16-02SPOSVNTC	2	16 7/Str	15/4	47	.480	42	127
USA16-03SPOSVNTC	3	16 7/Str	15/4	47	.514	61	145
USA16-04SPOSVNTC	4	16 7/Str	15/4	62	.590	80	207
USA16-06SPOSVNTC	6	16 7/Str	15/4	62	.694	116	270
USA16-08SPOSVNTC	8	16 7/Str	15/4	62	.763	155	344
USA16-12SPOSVNTC	12	16 7/Str	15/4	82	.966	230	521
USA16-16SPOSVNTC	16	16 7/Str	15/4	82	1.072	306	660
USA16-24SPOSVNTC	24	16 7/Str	15/4	82	1.323	456	944
USA16-36SPOSVNTC	36	16 7/Str	15/4	92	1.536	674	1370
USA16-50SPOSVNTC	50	16 7/Str	15/4	112	1.849	935	1914

## INSTRUMENTATION TRAY CABLE Type TC (POS/TOS)

### INSTRUMENT WIRE 600 VOLT TC

USAWC Part #	No. of Pairs/Triads	Size Strands	Insulation Thickness (Mils) (PVC/Nylon)	Jacket Thickness (Mils)	Nominal OD (Inches)	Copper Weight (lbs./1000 ft.)	Approx. Net Wt. (lbs./1000 ft.)
USA18-01POSVNTC	1 Pair	18 7/Str	15/4	47	.270	12	42
USA16-01POSVNTC	1 Pair	16 7/Str	15/4	47	.294	18	55
USA18-01TOSVNTC	1 Triad	18 7/Str	15/4	47	.283	18	51
USA16-01TOSVNTC	1 Triad	16 7/Str	15/4	47	.309	27	68

Note: Standard color coding is Method E-1 for NEC applications per ICEA; Pairs – black and white. Triads – black, white and red. One conductor in each pair is printed alphanumerically.