

INSTRUMENTATION



- ▶ **Triads**
- ▶ **FR-EPR**
- ▶ **CPE**
- ▶ **STOS**
- ▶ **Type TC-ER**
- ▶ **600V**

PRODUCT CONSTRUCTION

Conductor: 18 AWG and 16 AWG tinned, annealed copper per ASTM B33. Class B stranding per ASTM B8.

Insulation: Flame-retardant Ethylene Propylene Rubber (FR-EPR) Type II. Color-coded per ICEA Method 1: Triads – black, white and red.

One conductor in each triad is printed alphanumerically for easy identification.

Shield: *Individual and overall shielded triads.* 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, flame-retardant, thermoplastic Chlorinated Polyethylene (CPE).

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 wet or dry. Ripcord applied to all cables with jacket thickness of 60 mils or less. Excellent physical, thermal and electrical properties. Excellent moisture resistance. Excellent resistance to compression cuts and heat deformation. Excellent flame resistance – burns to an ash; does not exhibit thermoplastic drip. Low coefficient of friction for easy pulling. Sunlight- and weather-resistant. Excellent low temperature cold bend characteristics. Meets cold bend test at -40°C.

COMPLIANCES

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

Flame Test: UL 1581/UL 2556 VW-1. UL 1685 Vertical Flame Test. IEEE 383. IEEE 1202. CSA FT4. ICEA T-29-520.

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

USAWC Part #	No. of Triads	Size Strands	Insulation Thickness (Inches)	Jacket Thickness (Inches)	Nominal OD (Inches)	Copper Net Wt. (lbs./1000 ft.)	Approx. Net Wt. (lbs./1000 ft.)
USA18-02STOSECPETC	2	18 7/Str	.025	.060	.560	38	127
USA18-04STOSECPETC	4	18 7/Str	.025	.060	.640	73	201
USA18-08STOSECPETC	8	18 7/Str	.025	.080	.825	144	343
USA18-12STOSECPETC	12	18 7/Str	.025	.080	1.065	218	528
USA18-16STOSECPETC	16	18 7/Str	.025	.080	1.180	290	675
USA18-24STOSECPETC	24	18 7/Str	.025	.080	1.500	433	972
USA18-36STOSECPETC	36	18 7/Str	.025	.080	1.740	649	1470
USA16-02STOSECPETC	2	16 7/Str	.025	.060	.615	57	159
USA16-04STOSECPETC	4	16 7/Str	.025	.060	.705	108	249
USA16-08STOSECPETC	8	16 7/Str	.025	.060	.850	217	472
USA16-12STOSECPETC	12	16 7/Str	.025	.080	1.160	328	683
USA16-16STOSECPETC	16	16 7/Str	.025	.080	1.290	436	879
USA16-24STOSECPETC	24	16 7/Str	.025	.080	1.615	653	1266
USA16-36STOSECPETC	36	16 7/Str	.025	.110	1.920	979	1918