

# ETFE/ETFE Instrumentation Shielded Triads Tray Cable

Flexible Instrumentation - Shielded Triads, 600 Volts 150°C Dry Special Applications



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B stranding per ASTM B8. Tinned, annealed copper per ASTM B33
2. **Insulation:** Extruded ethylene -tetrafluoroethylene (ETFE)
3. **Twisted Triad:** Three conductors twisted together with a drain wire and alum/mylar shield
4. **Shielding:** Aluminum mylar shield and drain wire is applied over the core
5. **Overall Jacket:** Extruded ethylene -tetrafluoroethylene (ETFE)

## APPLICATIONS AND FEATURES:

For use as a 600 volt, Multi Pair instrumentation cable where flame retardance, Moisture/Chemical resistance, and high temperature rating is critical. Cable can be installed in free air, in raceways or direct burial. The cable is also approved for damp or dry locations as well as Class 1 Division II industrial hazardous locations per NEC 501-4(b) for (UL) Type tray cables (TC).

Temperature rating of 150°C dry for special applications. Excellent cut through resistance, electrical properties, chemical resistance, resistance to fluids, and flame resistance. Resistant to crush, compression and deformation. Low coefficient of friction makes installation easier. Good mechanical strength. Flexible. Triads are black, white and red with pair number printed on the white conductor.

## SPECIFICATIONS:

- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- UL 1277 Vertical Cable Tray Flame Tests (70,000 BTU/Hr)
- ICEA T-29-520 Flame Test (210,000 BTU/Hr)
- IEEE 383 Flame Test (70,000 btu)
- IEEE 1202/FT4 Flame Test (70,000 BTU/hr) 350kcmil and Larger
- RoHS-3 Complies with European Directive 2015/863
- VW-1 (Vertical-Wire) Flame Test



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**Table 1 – Weights and Measurements**

Stock Number	Cond. Size	Number of Triads	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	No.	mil	mil	inch	lb/1000ft	°C	Style/Type
C5Z005	18	1	15	45	0.265	55	150	UL Type TC
C5ZT00	18	2	15	45	0.420	110	150	UL Type TC
C5ZT05	18	4	15	45	0.485	180	150	UL Type TC
C5ZT10	18	6	15	60	0.585	275	150	UL Type TC
C5ZT15	18	8	15	60	0.655	345	150	UL Type TC
C5ZT20	18	12	15	60	0.770	490	150	UL Type TC
C5ZT25	18	16	15	80	0.910	670	150	UL Type TC
C5ZT30	18	24	15	80	1.075	950	150	UL Type TC
C5Z105	16	1	15	45	0.290	65	150	UL Type TC
C5ZT50	16	2	15	45	0.460	140	150	UL Type TC
C5ZT55	16	4	15	60	0.570	255	150	UL Type TC
C5ZT60	16	6	15	60	0.645	350	150	UL Type TC
C5ZT65	16	8	15	60	0.720	445	150	UL Type TC
C5ZT70	16	12	15	60	0.890	375	150	UL Type TC
C5ZT75	16	16	15	80	1.000	865	150	UL Type TC
C5ZT80	16	24	15	80	1.190	1240	150	UL Type TC

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

**Table 2 – Weights and Measurements (Metric)**

Stock Number	Cond. Size	Number of Triads	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	No.	mm	mm	mm	kg/km	°C	Style/Type
C5Z005	18	1	0.38	1.14	6.73	82	150	UL Type TC
C5ZT00	18	2	0.38	1.14	10.67	164	150	UL Type TC
C5ZT05	18	4	0.38	1.14	12.32	268	150	UL Type TC
C5ZT10	18	6	0.38	1.52	14.86	409	150	UL Type TC
C5ZT15	18	8	0.38	1.52	16.64	513	150	UL Type TC
C5ZT20	18	12	0.38	1.52	19.56	729	150	UL Type TC
C5ZT25	18	16	0.38	2.03	23.11	997	150	UL Type TC
C5ZT30	18	24	0.38	2.03	27.30	1414	150	UL Type TC
C5Z105	16	1	0.38	1.14	7.37	97	150	UL Type TC
C5ZT50	16	2	0.38	1.14	11.68	208	150	UL Type TC
C5ZT55	16	4	0.38	1.52	14.48	379	150	UL Type TC
C5ZT60	16	6	0.38	1.52	16.38	521	150	UL Type TC
C5ZT65	16	8	0.38	1.52	18.29	662	150	UL Type TC
C5ZT70	16	12	0.38	1.52	22.61	558	150	UL Type TC
C5ZT75	16	16	0.38	2.03	25.40	1287	150	UL Type TC
C5ZT80	16	24	0.38	2.03	30.23	1845	150	UL Type TC

