

ETFE/ETFE Instrumentation Shielded Pairs Tray Cable

Instrumentation - Shielded Pairs, 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 Pair:** 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. Pairs are black and white 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 Flame Test (70,000 BTU/hr)
- 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 Pairs	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
C5Z000	18	1	15	45	0.255	45	150	UL Type TC
C5ZP00	18	2	15	45	0.384	90	150	UL Type TC
C5ZP05	18	4	15	45	0.445	140	150	UL Type TC
C5ZP15	18	8	15	60	0.560	270	150	UL Type TC
C5ZP20	18	12	15	60	0.700	380	150	UL Type TC
C5ZP25	18	16	15	80	0.790	485	150	UL Type TC
C5ZP30	18	24	15	80	0.975	735	150	UL Type TC
C5ZP35	18	36	15	80	1.150	1050	150	UL Type TC
C5Z100	16	1	15	45	0.275	55	150	UL Type TC
C5ZP50	16	2	15	45	0.420	110	150	UL Type TC
C5ZP55	16	4	15	45	0.485	180	150	UL Type TC
C5ZP65	16	8	15	60	0.655	340	150	UL Type TC
C5ZP70	16	12	15	60	0.778	485	150	UL Type TC
C5ZP75	16	16	15	80	0.915	660	150	UL Type TC
C5ZP80	16	24	15	80	1.080	940	150	UL Type TC
C5ZP85	16	36	15	80	1.280	1350	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 Pairs	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
C5Z000	18	1	0.38	1.14	6.48	67	150	UL Type TC
C5ZP00	18	2	0.38	1.14	9.75	134	150	UL Type TC
C5ZP05	18	4	0.38	1.14	11.30	208	150	UL Type TC
C5ZP15	18	8	0.38	1.52	14.22	402	150	UL Type TC
C5ZP20	18	12	0.38	1.52	17.78	566	150	UL Type TC
C5ZP25	18	16	0.38	2.03	20.07	722	150	UL Type TC
C5ZP30	18	24	0.38	2.03	24.76	1094	150	UL Type TC
C5ZP35	18	36	0.38	2.03	29.21	1563	150	UL Type TC
C5Z100	16	1	0.38	1.14	6.99	82	150	UL Type TC
C5ZP50	16	2	0.38	1.14	10.67	164	150	UL Type TC
C5ZP55	16	4	0.38	1.14	12.32	268	150	UL Type TC
C5ZP65	16	8	0.38	1.52	16.64	506	150	UL Type TC
C5ZP70	16	12	0.38	1.52	19.76	722	150	UL Type TC
C5ZP75	16	16	0.38	2.03	23.24	982	150	UL Type TC
C5ZP80	16	24	0.38	2.03	27.43	1399	150	UL Type TC
C5ZP85	16	36	0.38	2.03	32.51	2009	150	UL Type TC

