ETFE/ETFE Instrumentation Shielded Multi Conductor Tray Cable

Flexible Instrumentation - Shielded Multi-Conductor, 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 conductor 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. E1 per ICEA S-73-532 Table E1 (Old K1). E2 per ICEA S-73-532 Table E2 (Old K2).

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

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Insul. Thickness	Jacket Thickness	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	No.	mil	mil	°C	Style/Type
C5Z105	16	3	15	45	150	UL Type TC

All dimensions are nominal and subject to normal manufacturing tolerances

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◊ Cable marked with this symbol is a standard stock item

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Cond. Number	Insul. Thickness	Jacket Thickness	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	No.	mm	mm	°C	Style/Type
C5Z105	16	3	0.38	1.14	150	UL Type TC