FEP/FEP Instrumentation Shielded Pairs Tray Cable

Flexible Instrumentation Shielded Pairs, 600 Volts, 200°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 fluorinated ethylene propylene (FEP)
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 fluorinated ethylene propylene (FEP)

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 200°C dry for special applications. Excellent 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. 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/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	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	mil	mil	inch	lb/1000ft	°C	Style/Type
C5F100	16	20	45	0.295	70	200	UL Type TC

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

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Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Temp. Rating	Standard (UL or other)
	AWG/Kcmil	mm	mm	mm	kg/km	°C	Style/Type
C5F100	16	0.51	1.14	7.49	104	200	UL Type TC