

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



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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
C5F000	18	1	20	45	0.275	50	200	UL Type TC
C5FP00	18	2	20	45	0.420	105	200	UL Type TC
C5FP05	18	4	20	45	0.486	170	200	UL Type TC
C5FP15	18	8	20	60	0.660	335	200	UL Type TC
C5FP20	18	12	20	60	0.775	455	200	UL Type TC
C5FP25	18	16	20	80	0.915	635	200	UL Type TC
C5FP30	18	24	20	80	1.080	885	200	UL Type TC
C5FP35	18	36	20	80	1.285	1250	200	UL Type TC
C5F100	16	1	20	45	0.295	70	200	UL Type TC
C5FP50	16	2	20	45	0.460	135	200	UL Type TC
C5FP55	16	4	20	45	0.570	240	200	UL Type TC
C5FP65	16	8	20	60	0.720	410	200	UL Type TC
C5FP70	16	12	20	60	0.850	575	200	UL Type TC
C5FP75	16	16	20	80	0.995	790	200	UL Type TC
C5FP80	16	24	20	80	1.180	1115	200	UL Type TC
C5FP85	16	36	20	80	1.410	1590	200	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
C5F000	18	1	0.51	1.14	6.99	74	200	UL Type TC
C5FP00	18	2	0.51	1.14	10.67	156	200	UL Type TC
C5FP05	18	4	0.51	1.14	12.34	253	200	UL Type TC
C5FP15	18	8	0.51	1.52	16.76	499	200	UL Type TC
C5FP20	18	12	0.51	1.52	19.69	677	200	UL Type TC
C5FP25	18	16	0.51	2.03	23.24	945	200	UL Type TC
C5FP30	18	24	0.51	2.03	27.43	1317	200	UL Type TC
C5FP35	18	36	0.51	2.03	32.64	1860	200	UL Type TC
C5F100	16	1	0.51	1.14	7.49	104	200	UL Type TC
C5FP50	16	2	0.51	1.14	11.68	201	200	UL Type TC
C5FP55	16	4	0.51	1.14	14.48	357	200	UL Type TC
C5FP65	16	8	0.51	1.52	18.29	610	200	UL Type TC
C5FP70	16	12	0.51	1.52	21.59	856	200	UL Type TC
C5FP75	16	16	0.51	2.03	25.27	1176	200	UL Type TC
C5FP80	16	24	0.51	2.03	29.97	1659	200	UL Type TC
C5FP85	16	36	0.51	2.03	35.81	2366	200	UL Type TC

