FEP/FEP Power Tray Cable

Flexible Power Cable, 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) ICEA Method 4
3. **Ground:** Uninsulated ground wire
4. **Binder:** Binder tape is applied over the core
5. **Overall Jacket:** Extruded fluorinated ethylene propylene (FEP)

APPLICATIONS AND FEATURES:

For use as a 600 volt, Multi conductor control 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. Available with insulated ground wires. Per ICEA Method 4. Available with E1 or E2 color code.

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

Copyright © 2024 Southwire Company, LLC. All Rights Reserved

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	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
C5F302	12	2	20	45	0.348	90	200	UL Type TC
C5F306	12	3	20	45	0.408	118	200	UL Type TC
C5F311	12	4	20	45	0.445	148	200	UL Type TC
C5F402	10	2	20	45	0.431	124	200	UL Type TC
C5F406	10	3	20	45	0.459	165	200	UL Type TC
C5F411	10	4	20	45	0.502	210	200	UL Type TC
C5F500	8	2	30	45	0.580	200	200	UL Type TC
C5F505	8	3	30	60	0.615	307	200	UL Type TC
C5F510	8	4	30	60	0.673	379	200	UL Type TC
C5F525	6	2	30	60	0.660	321	200	UL Type TC
C5F530	6	3	30	60	0.691	444	200	UL Type TC
C5F535	6	4	30	60	0.785	551	200	UL Type TC
C5F550	4	2	30	60	0.749	470	200	UL Type TC
C5F555	4	3	30	60	0.791	607	200	UL Type TC
C5F560	4	4	30	80	0.910	800	200	UL Type TC
C5F575	2	2	30	80	0.950	680	200	UL Type TC
C5F580	2	3	30	80	0.953	941	200	UL Type TC
C5F585	2	4	30	80	1.047	1189	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	Cond. Number	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
C5F302	12	2	0.51	1.14	8.84	134	200	UL Type TC
C5F306	12	3	0.51	1.14	10.36	176	200	UL Type TC
C5F311	12	4	0.51	1.14	11.30	220	200	UL Type TC
C5F402	10	2	0.51	1.14	10.95	185	200	UL Type TC
C5F406	10	3	0.51	1.14	11.66	246	200	UL Type TC
C5F411	10	4	0.51	1.14	12.75	313	200	UL Type TC
C5F500	8	2	0.76	1.14	14.73	298	200	UL Type TC
C5F505	8	3	0.76	1.52	15.62	457	200	UL Type TC
C5F510	8	4	0.76	1.52	17.09	564	200	UL Type TC
C5F525	6	2	0.76	1.52	16.76	478	200	UL Type TC
C5F530	6	3	0.76	1.52	17.55	661	200	UL Type TC
C5F535	6	4	0.76	1.52	19.94	820	200	UL Type TC
C5F550	4	2	0.76	1.52	19.02	699	200	UL Type TC
C5F555	4	3	0.76	1.52	20.09	903	200	UL Type TC
C5F560	4	4	0.76	2.03	23.11	1191	200	UL Type TC
C5F575	2	2	0.76	2.03	24.13	1012	200	UL Type TC
C5F580	2	3	0.76	2.03	24.21	1400	200	UL Type TC
C5F585	2	4	0.76	2.03	26.59	1769	200	UL Type TC

Copyright © 2024 Southwire Company, LLC. All Rights Reserved