ETFE/ETFE Control Tray Cable

Flexible Control Cable - 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. **Overall Jacket:** Extruded ethylene -tetrafluoroethylene (ETFE)

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 150°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. Available with E1 per ICEA S-73-532 Table E1 (Old K1) or E2 per ICEA S-73-532 Table E2 (Old K2) 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

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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
C5Z200	14	2	15	45	0.300	55	150	UL Type TC
C5Z205	14	3	15	45	0.320	80	150	UL Type TC
C5Z210	14	4	15	45	0.345	100	150	UL Type TC
C5Z220	14	7	15	45	0.405	155	150	UL Type TC
C5Z230	14	12	15	45	0.505	245	150	UL Type TC
C5Z240	14	19	15	60	0.650	400	150	UL Type TC
C5Z245	14	25	15	60	0.725	505	150	UL Type TC
C5Z250	14	37	15	80	0.890	760	150	UL Type TC
C5Z300	12	2	15	45	0.340	75	150	UL Type TC
C5Z305	12	3	15	45	0.360	110	150	UL Type TC
C5Z310	12	4	15	45	0.390	140	150	UL Type TC
C5Z320	12	7	15	45	0.465	220	150	UL Type TC
C5Z330	12	12	15	60	0.620	380	150	UL Type TC
C5Z340	12	19	15	60	0.745	570	150	UL Type TC
C5Z345	12	25	15	80	0.875	770	150	UL Type TC
C5Z350	12	37	15	80	1.023	1093	150	UL Type TC
C5Z400	10	2	20	45	0.405	105	150	UL Type TC
C5Z405	10	3	20	45	0.430	160	150	UL Type TC
C5Z410	10	4	20	45	0.470	205	150	UL Type TC
C5Z420	10	7	20	60	0.600	360	150	UL Type TC
C5Z430	10	12	20	60	0.750	575	150	UL Type TC
C5Z440	10	19	20	80	0.950	950	150	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	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
C5Z200	14	2	0.38	1.14	7.62	82	150	UL Type TC
C5Z205	14	3	0.38	1.14	8.13	119	150	UL Type TC
C5Z210	14	4	0.38	1.14	8.76	149	150	UL Type TC
C5Z220	14	7	0.38	1.14	10.29	231	150	UL Type TC
C5Z230	14	12	0.38	1.14	12.83	365	150	UL Type TC
C5Z240	14	19	0.38	1.52	16.51	595	150	UL Type TC
C5Z245	14	25	0.38	1.52	18.42	752	150	UL Type TC
C5Z250	14	37	0.38	2.03	22.61	1131	150	UL Type TC
C5Z300	12	2	0.38	1.14	8.64	112	150	UL Type TC
C5Z305	12	3	0.38	1.14	9.14	164	150	UL Type TC
C5Z310	12	4	0.38	1.14	9.91	208	150	UL Type TC
C5Z320	12	7	0.38	1.14	11.81	327	150	UL Type TC
C5Z330	12	12	0.38	1.52	15.75	566	150	UL Type TC
C5Z340	12	19	0.38	1.52	18.92	848	150	UL Type TC
C5Z345	12	25	0.38	2.03	22.22	1146	150	UL Type TC
C5Z350	12	37	0.38	2.03	25.98	1627	150	UL Type TC
C5Z400	10	2	0.51	1.14	10.29	156	150	UL Type TC
C5Z405	10	3	0.51	1.14	10.92	238	150	UL Type TC
C5Z410	10	4	0.51	1.14	11.94	305	150	UL Type TC
C5Z420	10	7	0.51	1.52	15.24	536	150	UL Type TC
C5Z430	10	12	0.51	1.52	19.05	856	150	UL Type TC
C5Z440	10	19	0.51	2.03	24.13	1414	150	UL Type TC