

Addison Industrial Cables

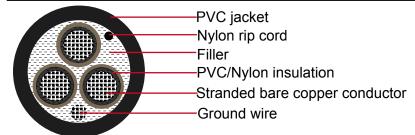
American Standard UL

THHN/THWN, 600V, Type TC control Cable

Applications:

Type TC Control Cable is for use in industrial power or control circuits where small diameter, flame retardant cables are desired. Primary installations include cable trays, raceways, and outdoor locations where supported by a messenger wire. Type TC is also listed for direct burial and for use in Class 1, Division 2 hazardous locations and Class 1 control circuits. Constructions with 3 or more conductors are listed for exposed runs (TC-ER) per NEC 336.10. Conductors may be used at temperatures not to exceed 75°C in wet locations or 90°C in dry locations. 130°C for emergency overload ratings, and 250°C for short circuit ratings. Not recommended in D.C. operation in wet locations.

Construction:



Conductor:

Soft annealed bare copper, Class B stranding per ASTM B8

Insulation:

Polyvinyl chloride (PVC) insulation over with a nylon (polyamide) jacket applied

Assembly:

Three or more conductors will be cabled round with fillers and a nylon rip cord is put under the jacket for ease of stripping

Jacket:

Heat retardant, moisture and sunlight resistant PVC

Color:

upon request, black is preferable

Caledonian Industrial Cables



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Compliances:

- ► NFPA 70 (NEC)
- ▶ UL 1581 Electrical Wires, Cables and Flexible Cords
- ► ICEA S-58-679 Control Cable Conductor Identification Method 1, Table 2
- ► UL 1685 UL Flame Exposure Test (70,000 Btu/hr)

Parameters:

Insulation thickness: 16-12AWG PVC 15mils(0.38mm) Nylon 4mils(0.10mm)

10AWG PVC 20mils(0.50mm) Nylon 4mils(0.10mm)

AWG 16 (26 strands) - Type TC-TFFN* Conductors

Number of Conductors	Nominal jacket thickness Inch/mm		Nominal Overall Diameter Inch/mm		Cable weight Lbs/kft kg/km	
2	0.045	1.14	0.288	7.32	43	64
3	0.045	1.14	0.303	7.70	53	79
4	0.045	1.14	0.329	8.36	66	98
5	0.045	1.14	0.357	9.07	81	120
7	0.045	1.14	0.386	9.80	103	153
9	0.045	1.14	0.447	11.35	134	199
12	0.045	1.14	0.501	12.73	165	245
15	0.060	1.52	0.585	14.86	218	324
19	0.060	1.52	0.614	15.60	263	391
25	0.060	1.52	0.713	18.11	339	504
30	0.080	2.03	0.753	19.13	396	589
37	0.080	2.03	0.812	20.62	477	709