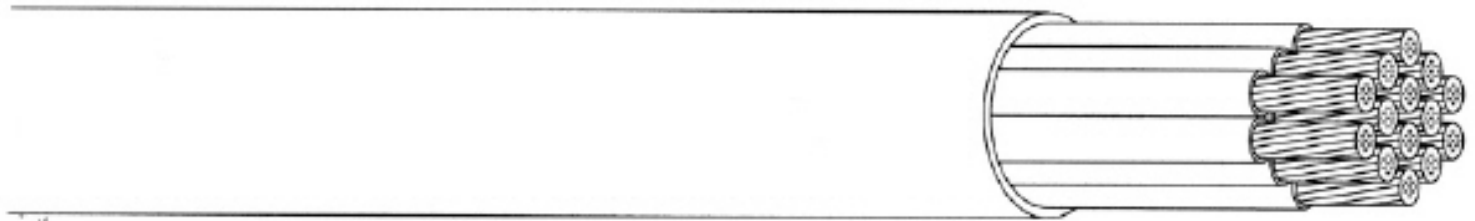


Type TC Control Cable-THHN

Type TC Control Cable. 600 Volt. Copper Conductors.
PVC/Nylon Insulated Singles Sizes 16 AWG through 10 AWG.
Overall PVC Jacket. Heat, Moisture and Sunlight Resistant.
RoHS



APPLICATIONS

Southwire's 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.

SPECIFICATIONS

Southwire's Type TC Control Cable meets or exceeds the applicable requirements of the following standards and specifications:

- ASTM - (All applicable standards)
- UL 1277 Electrical Power and Control Tray Cables
- 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).

CONSTRUCTION

Southwire's Type TC Control Cable is available in sizes 16 AWG through 10 AWG, with multiconductor constructions of two through 37 conductors. The product uses Type THHN or THWN conductors in sizes 14 AWG through 10 AWG and Type TFFN conductors is size 16 AWG. Individual conductors are bare annealed copper covered with a polyvinyl chloride (PVC) insulation over which a nylon (polyamide) or UL listed equal jacket is applied. The overall jacket consists of a heat, moisture and sunlight resistant PVC. Non-halogen jacket available upon request.

THHN Type TC Control Cable

AWG 16 (26 strands) Type TC-TFFN Conductors					
Number of Conductors	Jacket Thickness (inches)	Average Overall Diameter		Approximate Weight	
		Inches	Millimeters	lbs/1000'	kg/km
2	0.045	0.288	7.32	43	64
3	0.045	0.303	7.70	53	79
4	0.045	0.329	8.36	66	98
5	0.045	0.357	9.07	81	120
7	0.045	0.386	9.8	103	153
9	0.045	0.447	11.35	134	199
12	0.045	0.501	12.73	165	245
15	0.060	0.585	14.86	218	324
19	0.060	0.614	15.60	263	391
25	0.060	0.713	18.11	339	504
30	0.060	0.753	19.13	396	589
37	0.060	0.812	20.62	477	709

For ampacities, use Sections 336 and 402 of the National Electrical Code.

THHN Type TC Control Cable

AWG 14 (7 strands) Type TC-THHN or THWN Conductors					
Number of Conductors	Jacket Thickness (inches)	Average Overall Diameter		Approximate Weight	
		Inches	Millimeters	lbs/1000'	kg/km
2	0.045	0.305	7.8	56	83
3	0.045	0.322	8.2	74	110
4	0.045	0.350	8.9	93	139
5	0.045	0.381	9.7	109	162
6	0.045	0.413	10.5	129	192
7	0.045	0.413	10.5	145	215
8	0.045	0.466	11.3	164	243
9	0.045	0.478	12.2	182	271
10	0.060	0.550	14	217	322
12	0.060	0.568	14.4	251	373
15	0.060	0.627	15.9	305	454
19	0.060	0.658	16.7	373	555
20	0.060	0.691	17.6	393	584
25	0.060	0.766	19.4	483	719
30	0.060	0.810	20.6	568	845
37	0.060	0.913	23.2	720	1072

For ampacities, use Sections 336 and 310.15 of the National Electrical Code.

THHN Type TC Control Cable

**AWG 12 (7 strands)
Type TC-THHN or THWN Conductors**

Number of Conductors	Jacket Thickness (inches)	Average Overall Diameter		Approximate Weight	
		Inches	Millimeters	lbs/1000'	kg/km
2	0.045	0.340	8.6	75	112
3	0.045	0.360	9.2	105	156
4	0.045	0.392	10	128	190
5	0.045	0.428	10.9	154	229
6	0.045	0.466	11.8	183	272
7	0.045	0.466	11.8	207	308
8	0.045	0.504	12.8	234	349
9	0.060	0.572	14.5	277	412
10	0.060	0.621	15.8	307	457
12	0.060	0.641	16.3	358	532
15	0.060	0.710	18	438	652
19	0.060	0.746	18.9	539	802
20	0.060	0.785	19.9	568	845
25	0.080	0.911	23.1	734	1092
30	0.080	0.963	24.4	863	1284
37	0.080	1.036	26.3	1044	1553

For ampacities, use Sections 336 and 310.15 of the National Electrical Code.

THHN Type TC Control Cable

AWG 10 (7 strands) Type TC-THHN or THWN Conductors					
Number of Conductors	Jacket Thickness (inches)	Average Overall Diameter		Approximate Weight	
		Inches	Millimeters	lbs/1000'	kg/km
2	0.045	0.407	10.3	111	166
3	0.045	0.433	11	155	230
4	0.045	0.473	12	198	294
5	0.060	0.549	13.9	250	371
6	0.060	0.596	15.1	294	437
7	0.060	0.596	15.1	333	495
8	0.060	0.645	16.4	377	561
9	0.060	0.693	17.6	421	626
10	0.060	0.755	19.2	467	694
12	0.060	0.780	19.8	547	814
15	0.080	0.908	23.1	706	1050
19	0.080	0.954	24.2	867	1291
20	0.080	1.003	25.5	913	1359
25	0.080	1.112	28.2	1125	1675
30	0.080	1.117	29.9	1329	1977
37	0.080	1.271	32.3	1614	2402

For ampacities, use Sections 336 and 310.15 of the National Electrical Code.