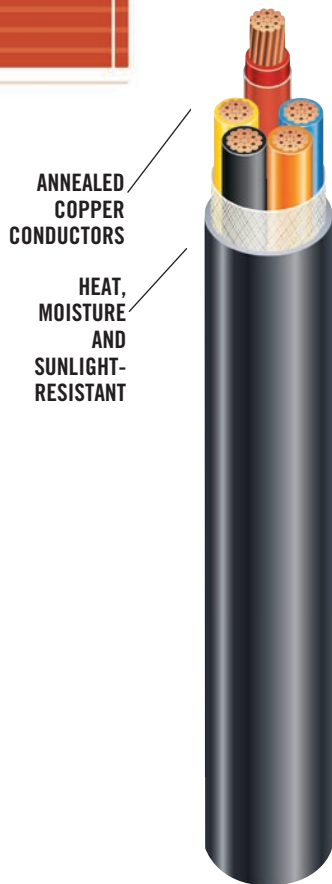


TYPE TC CONTROL CABLE

THHN¹



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

APPLICATIONS

Suitable for use as follows:

- 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
- Conductors may be used at temperatures not to exceed 75°C in wet locations or 90°C in dry locations

STANDARDS & REFERENCES

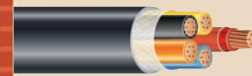
Southwire's Type TC Control Cable meets or exceeds the applicable requirements of the following standards and specifications:

- ASTM - (All applicable standards)
- UL 1277 - Electrical Power and Control Tray Cables
- UL 1581 - Electrical Wires, Cables and Flexible Cords
- ICEA S-58-679 - Control Cable Conductor Identification. (Method 1, Table 2 - colored compounds with tracer colors excluding white and green)
- UL 1685 - UL Flame Exposure Test (70,000 BTU/hr)
- ICEA T-30-250 - Vertical Cable Tray Flame Test (70,000 BTU/hr)
- ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 BTU/hr)
- IEEE 1202 - Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies (70,000 BTU/hr)

CONSTRUCTION

Southwire's Type TC Control Cable is available in sizes 16 AWG through 10 AWG, with multiconductor constructions of 2 through 37 conductors. The product uses Type THHN or THWN conductors in sizes 14 AWG through 10 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 is available upon request.

¹Southwire offers three and four conductor cables in sizes 14, 12, 10 AWG with a green insulated ground wire using ICEA color code Method 1, Table 2



MULTI CONDUCTORS

TYPE TC CONTROL CABLE THHN

WEIGHTS, MEASUREMENTS AND PACKAGING

NUMBER OF CONDUCTORS	JACKET THICKNESS (inches)	AVERAGE OVERALL DIAMETER		APPROXIMATE WEIGHT	
		inches	mm	lbs/1000 ft	kg/km
16 AWG (26 STRANDS) TYPE TC-TFFN* CONDUCTORS					
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	9.80	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	0.080	0.753	19.13	396	589
37	0.080	0.812	20.62	477	709
14 AWG (7 STRANDS) TYPE TC-THHN OR THWN CONDUCTORS					
2	0.045	0.305	7.8	55	82
3	0.045	0.322	8.2	74	110
4	0.045	0.350	8.9	89	133
5	0.045	0.381	9.7	109	162
6	0.045	0.413	10.5	128	191
7	0.045	0.413	10.5	144	215
8	0.045	0.446	11.3	163	243
9	0.045	0.478	12.2	182	271
10	0.060	0.550	14.0	216	321
12	0.060	0.568	14.4	250	372
15	0.060	0.627	15.9	304	453
19	0.060	0.658	16.7	372	553
20	0.060	0.691	17.6	391	582
25	0.060	0.766	19.4	482	717
30	0.060	0.810	20.6	566	843
37	0.080	0.913	23.2	718	1069
12 AWG (7 STRANDS) TYPE TC-THHN OR THWN CONDUCTORS					
2	0.045	0.340	8.6	75	111
3	0.045	0.360	9.2	105	156
4	0.045	0.392	10.0	129	193
5	0.045	0.428	10.9	154	229
6	0.045	0.466	11.8	182	271
7	0.045	0.466	11.8	206	307
8	0.045	0.504	12.8	234	348
9	0.060	0.572	14.5	277	412
10	0.060	0.621	15.8	306	456
12	0.060	0.641	16.3	357	531
15	0.060	0.710	18.0	437	650
19	0.060	0.746	18.9	538	801
20	0.060	0.785	19.9	567	843
25	0.080	0.911	23.1	732	1089
30	0.080	0.963	24.4	861	1281
37	0.080	1.036	26.3	1041	1549
10 AWG (7 STRANDS) TYPE TC-THHN OR THWN CONDUCTORS					
2	0.045	0.407	10.3	111	165
3	0.045	0.433	11.0	154	230
4	0.045	0.473	12.0	198	295
5	0.060	0.549	13.9	249	371
6	0.060	0.596	15.1	293	436
7	0.060	0.596	15.1	332	494
8	0.060	0.645	16.4	376	559
9	0.060	0.693	17.6	420	625
10	0.060	0.755	19.2	465	692
12	0.060	0.780	19.8	545	812
15	0.080	0.908	23.1	704	1047
19	0.080	0.954	24.2	865	1287
20	0.080	1.003	25.5	911	1356
25	0.080	1.112	28.2	1123	1670
30	0.080	1.177	29.9	1325	1972
37	0.080	1.271	32.3	1610	2395

* Similar to Type TFFN except rated 75°C in wet locations or 90°C in dry locations.