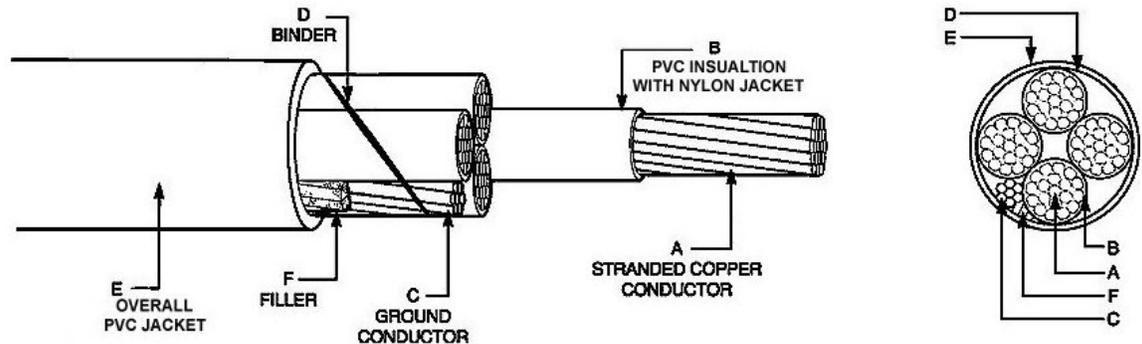


Type TC Power Cable-THHN

Type TC Power Cable. 600 Volt.
Copper Conductors with PVC/Nylon Insulation Rated THHN.
Overall Heat, Moisture and Sunlight Resistant PVC Jacket.
RoHS



APPLICATIONS

Southwire's Type TC Power Cable is used to supply power to motors, or for connection to other power devices in industrial settings. Primary installations include cable trays, raceways, and outdoor locations where supported by a messenger wire. Type TC Power Cable is listed for direct burial and for use in Class 1, Division 2 hazardous locations and Class 1 control circuits. This cable may be used at temperatures not to exceed 75°C in wet locations and 90°C in dry locations.

SPECIFICATIONS

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

- ASTM
- UL 1277, 1581 and 1685
- ICEA S-58-679 Method 4
- ICEA T-29-520 - Vertical Cable Tray Flame Test
- ICEA S-95-658 (NEMA WC 70) construction requirements
- IEEE 1202/FT4 - Flame Test
- RoHS

CONSTRUCTION

Southwire's Type TC Power Cable is manufactured using Type THHN or THWN conductors. 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 flame retardant, moisture and sunlight resistant PVC jacket. Non-halogen jacket available upon request.

4c, THHN/PVC, GW Type TC Power Cable

Type TC-Power Cable Four THHN or THWN Conductors With Ground									
Size (AWG or kcmil)	Stranding	Ground Conductor Size (AWG)	Jacket Thickness (inches)	Avg. Overall Diameter		Approximate Weight		Ampacity	
				inches	mm	lbs./1000'	kg./km.	75°C	90°C
8	7	10	.060	.685	17.4	369	548	50	55
6	7	8	.060	.78	19.8	549	817	65	75
4	7	8	.080	.914	23.2	808	1202	85	95
2	7	6	.080	1.052	26.7	1197	1782	115	130
1	19	6	.080	1.21	30.7	1532	2280	130	150
1/0	19	6	.080	1.304	33.1	1838	2734	150	170
2/0	19	6	.080	1.413	35.9	2238	3330	175	195
3/0	19	4	.080	1.536	39	2782	4139	200	225
4/0	19	4	.110	1.726	43.8	3477	5173	230	260
250	37	4	.110	1.895	48.1	4095	6093	255	290
350	37	3	.110	2.144	54.5	5530	8228	310	350
500	37	2	.110	2.455	62.4	7652	11386	380	430
750	61	1	.140	2.998	76.2	11365	16911	475	535

Note: Ampacities are based on Table 310.16 of the NEC, 2011 Edition. Ampacities are for general use with a 90°C conductor and 30°C ambient temperature as specified in section 310.15 and in cable trays as specified in section 392.11. The ampacity shall be reduced by a factor of 0.80 when the number of current-carrying conductors exceeds three.

6 and 8 AWG constructions with insulated grounds (standard) and 4 AWG and larger with bare or insulated ground are UL Listed for exposed runs (ER) per NEC 336.10.