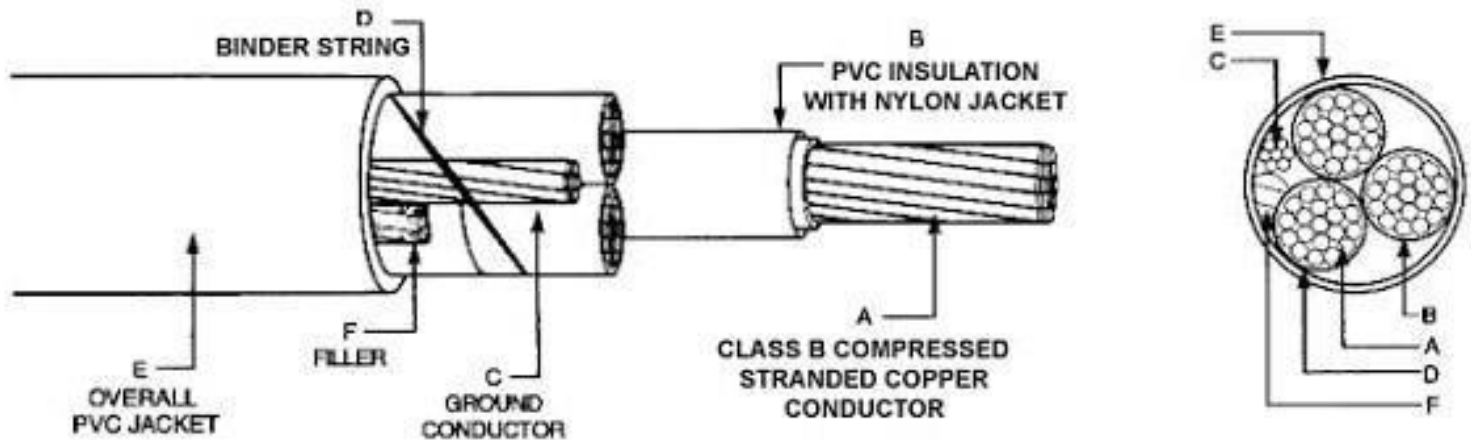


# Type TC Power Cable-THHN

Copper Conductors with PVC/Nylon Insulation Rated THHN.  
Heat, Moisture and Sunlight Resistant PVC Outer Jacket.  
Type TC Power Cable. 600 Volt.  
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. These constructions are listed for exposed runs (TC-ER) per NEC 336.10. 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
- ICEA S-58-679 - Control Cable Conductor Identification. Method 4
- UL 1685 - UL CT Flame Exposure Test (70,000 Btu/hr).
- ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 Btu/hr).
- IEEE 1202/FT4
- ICEA S-95-658 (NEMA WC 70) construction requirements.

## 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.

# 3c, THHN/PVC, GW, Type TC Power Cable

Type TC-Power Cable Three 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	.625	15.9	295	440	50	55
6	7	8	.060	.71	18	435	647	65	75
4	7	8	.060	.795	20.2	606	902	85	95
2	7	6	.080	.958	24.3	979	1456	115	130
1	19	6	.080	1.1	27.9	1195	1779	130	150
2/0	19	6	.080	1.281	32.5	1733	2578	175	195
3/0	19	4	.080	1.391	35.3	2162	3217	200	225
4/0	19	4	.080	1.508	38.3	2616	3892	230	260
250	37	4	.080	1.659	42.1	3069	4566	255	290
350	37	3	.110	1.942	49.3	4274	6360	310	350
500	37	2	.110	2.22	56.4	5789	8614	380	430
750	61	1	.110	2.652	67.4	8609	12811	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.

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.