

Type TC Power Cable

600V THHN/PVC, GW

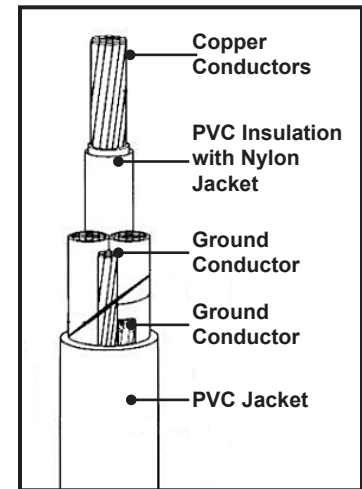
Construction

Available in sizes 8 AWG through 750 kcmils and is manufactured using Type THHN or THWN conductors. Individual conductors are bare annealed copper covered with a 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.

Specifications

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 4 - single color compounds with surface printing of numbers)
- UL 1685 - UL Flame Exposure 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 Bth/hr)



Applications

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. 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.

Size (AWG or kcmils)	Stranding	Ground Conductor (AWG)	Average Overall Diameter (in)	Approx. Weight (lbs/M-ft)	Ampacity	
					75°C	90°C
8	7	10	.625	295	50	55
6	7	8	.710	433	65	75
4	7	8	.795	605	85	95
2	7	6	.958	940	115	130
1	19	6	1.100	1,193	130	150
1/0	19	6	1.184	1,442	150	170
2/0	19	6	1.281	1,730	175	195
3/0	19	4	1.391	2,159	200	225
4/0	19	4	1.508	2,613	230	260
250	37	4	1.659	3,065	255	290
350	37	3	1.942	4,270	310	350
500	37	2	2.220	5,899	380	430
750	61	1	2.652	8,600	475	535

Information based on Southwire specs.

See referenced page in the Hardware & Supplies section:

- Suggested Prep Tool**
- Cable End Strippers
2x2, 4x4 - I-9