

Type TC Power Cable

600V, XHHW/PVC, GW

Construction

Available in sizes 8 AWG through 750 kcmils and is manufactured using Type XHHW-2 conductors. Individual conductors are bare annealed copper covered with XLP insulation. The overall jacket consists of a flame-retardant, moisture- and sunlight-resistant PVC jacket. Non-halogen jacket available upon request.

Specifications

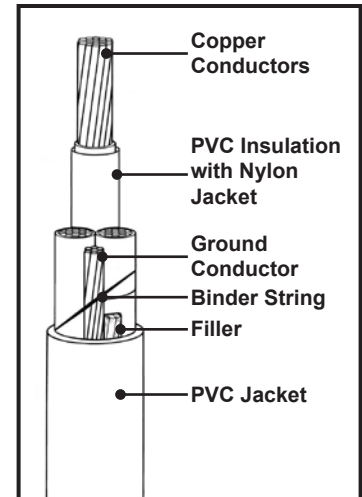
Meets or exceeds the applicable requirements of the following standards and specifications:

- ASTM - (All applicable standards)
- UL 44
- 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 (black) compounds with surface printing of numbers)
- UL 1685 - 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 Btu/hr)

Meets and exceeds all construction requirements of ICEA S-95-658 (NEMA WC 70) - Unshielded 0 - 2 kV Cables, with testing frequencies based on UL requirements.

Applications

For supplying 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 or in underground ducts and for use in Class 1, Division 2 hazardous locations and Class 1 control circuits. This cable may be used in wet and dry locations at temperatures not to exceed 90°C. 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°C.



Size (AWG or kcmils)	Stranding	Ground Conductor (AWG)	Average Overall Diameter (in)	Approx. Weight (lbs/M-ft)	Ampacity 90°C
8	7	10	.681	330	55
6	7	8	.766	468	75
4	7	8	.797	606	95
2	7	6	.960	954	130
1	19	6	1.100	1,173	150
1/0	19	6	1.186	1,421	170
2/0	19	6	1.279	1,704	195
3/0	19	4	1.385	2,135	225
4/0	19	4	1.506	2,580	260
250	37	4	1.653	3,021	290
300	37	3	1.827	3,684	320
350	37	3	1.935	4,219	350
400	37	3	2.032	4,747	380
500	37	2	2.214	5,838	430
750	61	1	2.663	8,543	535

See referenced page in the Hardware & Supplies section:

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

Information based on Southwire specs.