

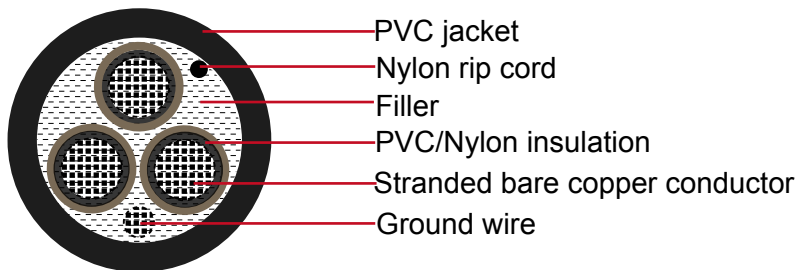


## THHN/THWN, 600V, Type TC Power Cable

### Applications:

THHN/PVC, 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.

### Construction:



### Conductor:

Soft annealed bare copper, Class B stranding per ASTM B8

### Insulation:

Polyvinyl chloride (PVC) insulation over with a nylon (polyamide) jacket applied

### Ground Wire:

Soft annealed bare copper, Class B stranding per ASTM B8

### Assembly:

Three or more conductors will be cabled round with fillers and a nylon rip cord is put under the jacket for ease of stripping

### Jacket:

Heat, moisture and sunlight resistant PVC(LSOH is available upon request)

### Color:

upon request, black is preferable



## American Standard UL

### Compliances:

- ▶ UL 1277 - Electrical Power and Control Tray Cables
- ▶ 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 - Flaming Test of Cables for Use in Cable Tray in Industrial and Commercial Occupancies (70,000 Btu/hr)
- ▶ ICEA S-95-658 (NEMA WC 70) construction requirements

### Parameters:

| AWG<br>or<br>kcmil | Strand | Ground<br>Wire Size<br>AWG | Nominal jacket<br>thickness<br>Inch/mm |      | Nominal Overall<br>Diameter<br>Inch/mm |       | Cable<br>weight<br>Lbs/kft kg/km |       |
|--------------------|--------|----------------------------|--|------|--|-------|----------------------------------|-------|
| 3 conductors       |        |                            |  |      |  |       |                                  |       |
| 8                  | 7      | 10                         | 0.060                                  | 1.52 | 0.625                                  | 15.88 | 295                              | 440   |
| 6                  | 7      | 8                          | 0.060                                  | 1.52 | 0.710                                  | 18.03 | 435                              | 647   |
| 4                  | 7      | 8                          | 0.060                                  | 1.52 | 0.795                                  | 20.19 | 606                              | 902   |
| 2                  | 7      | 6                          | 0.080                                  | 2.03 | 0.958                                  | 24.33 | 942                              | 1401  |
| 1                  | 19     | 6                          | 0.080                                  | 2.03 | 1.100                                  | 27.94 | 1195                             | 1779  |
| 1/0                | 19     | 6                          | 0.080                                  | 2.03 | 1.184                                  | 30.07 | 1445                             | 2150  |
| 2/0                | 19     | 6                          | 0.080                                  | 2.03 | 1.281                                  | 32.54 | 1734                             | 2579  |
| 3/0                | 19     | 4                          | 0.080                                  | 2.03 | 1.391                                  | 35.33 | 2163                             | 3218  |
| 4/0                | 19     | 4                          | 0.080                                  | 2.03 | 1.508                                  | 38.30 | 2617                             | 3894  |
| 250                | 37     | 4                          | 0.080                                  | 2.03 | 1.659                                  | 42.14 | 3070                             | 4568  |
| 350                | 37     | 3                          | 0.110                                  | 2.79 | 1.942                                  | 49.33 | 4276                             | 6363  |
| 500                | 37     | 2                          | 0.110                                  | 2.79 | 2.220                                  | 56.39 | 5906                             | 8788  |
| 750                | 61     | 1                          | 0.110                                  | 2.79 | 2.652                                  | 67.36 | 8609                             | 12811 |
| 4 conductors       |        |                            |  |      |  |       |                                  |       |
| 8                  | 7      | 10                         | 0.060                                  | 1.52 | 0.685                                  | 17.40 | 369                              | 548   |
| 6                  | 7      | 8                          | 0.060                                  | 1.52 | 0.780                                  | 19.81 | 549                              | 817   |
| 4                  | 7      | 8                          | 0.080                                  | 2.03 | 0.914                                  | 23.22 | 808                              | 1202  |
| 2                  | 7      | 6                          | 0.080                                  | 2.03 | 1.052                                  | 26.72 | 1197                             | 1782  |
| 1                  | 19     | 6                          | 0.080                                  | 2.03 | 1.210                                  | 30.73 | 1532                             | 2280  |
| 1/0                | 19     | 6                          | 0.080                                  | 2.03 | 1.304                                  | 33.12 | 1838                             | 2734  |
| 2/0                | 19     | 6                          | 0.080                                  | 2.03 | 1.413                                  | 35.89 | 2238                             | 3330  |
| 3/0                | 19     | 4                          | 0.080                                  | 2.03 | 1.536                                  | 39.01 | 2782                             | 4139  |
| 4/0                | 19     | 4                          | 0.110                                  | 2.79 | 1.726                                  | 43.84 | 3477                             | 5173  |
| 250                | 37     | 4                          | 0.110                                  | 2.79 | 1.895                                  | 48.13 | 4095                             | 6093  |
| 350                | 37     | 3                          | 0.110                                  | 2.79 | 2.144                                  | 54.46 | 5530                             | 8228  |
| 500                | 37     | 2                          | 0.110                                  | 2.79 | 2.455                                  | 62.36 | 7652                             | 11386 |
| 750                | 61     | 1                          | 0.140                                  | 3.56 | 2.998                                  | 76.15 | 11365                            | 16911 |