



# ELLIOTT ELECTRIC SUPPLY

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## TC203WG500 2/0-3 WG Tray Cable-500

*Southwire Company*

|                  |   |
|------------------|---|
| Catalog Number   | TC203WG500  |
| Manufacturer     | Southwire Company   |
| Description      | Tray Cable, Stranded, 19 Strands, 2/0 Awg Conductor Size, Copper Conductor Material, PVC Jacket Material, PVC and Nylon Insulation Material, 600 V, 3 Conductors, 500 FT Overall Length, 1.281 In Outside Diameter, +75 °C (Wet) Operating Temperature, 1.7299 LB/1000 FT |
| Weight per unit  | 1.7 (lbs/ft)  |
| Product Category | Control-Flexbl-SDN-Low Voltage  |

### Features

|                |              |
|----------------|--------------|
| Shielding Type | NON SHIELDED |
| Stranding      | 19 STRANDS   |

### Dimensions and Weight

|                |            |
|----------------|------------|
| Length         | 500 FT     |
| Length in ft   | 500 W      |
| Outer Diameter | 1.281 INCH |

### Descriptions

|                       |                                   |
|-----------------------|-----------------------------------|
| Commodity Description | CONT FLEX SDN LOW VOLT 600V CABLE |
| Description           | 2/0-3 WG TRAY CABLE-500           |

### Manufacturer Information

|       |                |
|-------|----------------|
| Brand | Copper         |
| GTIN  | 00032886037665 |
| UPC   | 032886037665   |

### Taxonomies, Classifications, and Categories

|                      |            |
|----------------------|------------|
| Category Description | TRAY CABLE |
| Type                 | TC, THHN   |

### Availability

|                     |           |
|---------------------|-----------|
| Manufacturer Status | Non-Stock |
|---------------------|-----------|

### Packaging

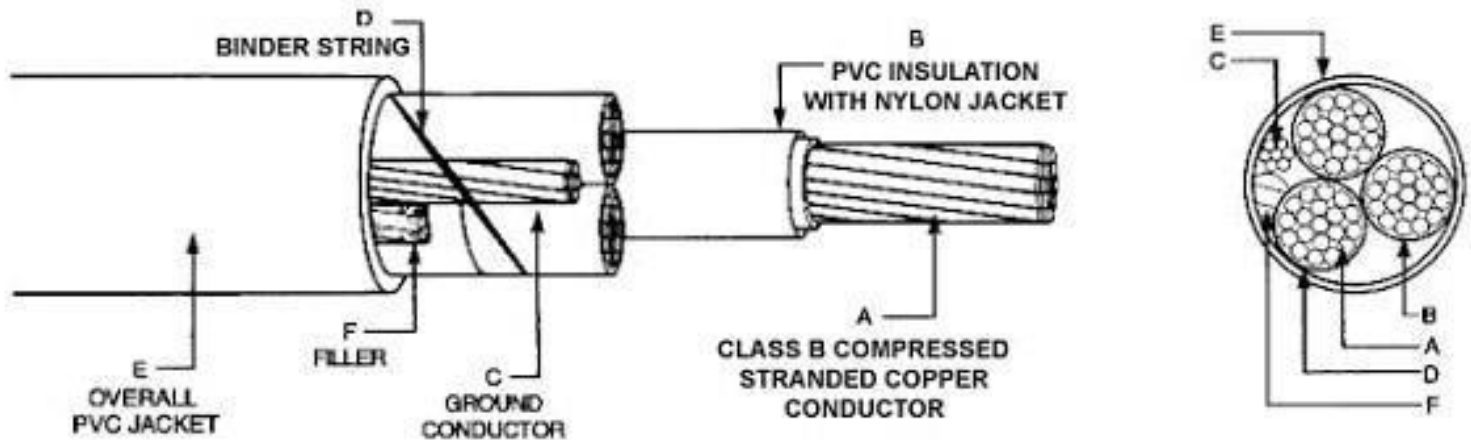
|                 |        |
|-----------------|--------|
| Carton          | 500    |
| Weight Per foot | 1.7299 |

### Uses, Certifications, and Standards

|                    |                                |
|--------------------|--------------------------------|
| Approval           | UL 1581, UL 1685               |
| Temperature Rating | 75 DEG C (WET), 90 DEG C (DRY) |

# 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<br>Three THHN or THWN Conductors With Ground |           |                                      |                                 |                       |      |                    |         |          |      |
|--|-----------|--------------------------------------|---------------------------------|-----------------------|------|--------------------|---------|----------|------|
| Size<br>(AWG<br>or<br>kcmil)                                     | Stranding | Ground<br>Conductor<br>Size<br>(AWG) | Jacket<br>Thickness<br>(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.