



**Product:** [27916A](#)

TC VN/PVC, 2 C #18 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC 150V NPLF 90C Wet/Dry SUN RES DIR BUR

### Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2 Conductor 18AWG (7x26) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Wet/Dry SUN RES DIR BUR

### Technical Specifications

#### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | Power and Control Applications up to 600V |
|------------------------|---|

#### Construction Details

##### Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 2               | 18 AWG | 7x26      | BC - Bare Copper |

##### Insulation

| Element      | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code |
|--------------|--|--------------------|--------------------------|------------|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.020 in (0.51 mm) | 0.087 in (2.2 mm)        | Black, Red |

##### Outer Shield

| Material  |
|-----------|
| No Shield |

##### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter    | Ripcord |
|--------------------------|-------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.272 x 0.183 in | No      |

Overall Cable Diameter (Nominal): 0.272 x 0.183 in

#### Electrical Characteristics

##### Electricals

| Nom. Conductor DCR | Max. Current                  |
|--------------------|-------------------------------|
| 6.66 Ohm/1000ft    | 24 Amps per Conductor at 30°C |

##### Voltage

| UL Voltage Rating        |
|--------------------------|
| 600 V (TC), 150 V (NPLF) |

#### Mechanical Characteristics

##### Temperature

| UL Temperature     | Operating              |
|--------------------|------------------------|
| 90°C Dry, 90°C Wet | Wet/Dry: -30°C to 90°C |

##### Bend Radius

| Stationary Min.    | Installation Min.  |
|--------------------|--------------------|
| 0.732 in (18.6 mm) | 0.915 in (23.2 mm) |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 45 lbs (20 kg) |
| Bulk Cable Weight: | 31 lbs/1000ft  |

### Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor, Outdoor, Sunlight Resistance, Burial  |
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEEE 1202 FT4  |
| NEC / UL Compliance:             | Article 336, NPLF, TC, TFFN   |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)   |

### Product Notes

|        |   |
|--------|---|
| Notes: | Flat construction, subject to +/-10% tolerance; overall shield not available. |
|--------|---|

### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.527 Revision Date: 05-31-2024 |
|----------------------|--|

### Part Numbers

#### Variants

| Item #          | Color | Putup Type | Length    | UPC          | Footnote |
|-----------------|-------|------------|-----------|--------------|----------|
| 27916A 01010000 |       | Reel       |           | 612825134503 |          |
| 27916A 0105000  | Black | Reel       | 5,000 ft  | 612825134510 | C        |
| 27916A 01010000 | Black | Reel       | 10,000 ft | 612825134503 | C        |

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