



**Product:** [27617A](#)

TC VN/PVC, 10 C #16 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC 150V NPLF 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 10 Conductor 16AWG (7x24) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Dry/Wet 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) | 10              | 16 AWG | 7x24      | BC - Bare Copper |

Insulation

| Element      | Separator    | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code   |
|--------------|--------------|--|--------------------|--------------------------|--|
| Conductor(s) | Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.022 in (0.56 mm) | 0.101 in (2.57 mm)       | Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black, Orange/Black, Yellow/Black |

Inner Shield

| Shield Type |
|-------------|
| No Shield   |

Outer Shield

| Shield Type |
|-------------|
| No Shield   |

Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter | Ripcord |
|--------------------------|-------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.498 in      | Yes     |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.498 in |
|-----------------------------------|----------|

Electrical Characteristics

| Electricals              |                              |
|--------------------------|------------------------------|
| Nom. Conductor DCR       | Max. Current                 |
| 4.2 Ohm/1000ft           | 9 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, 75°C Wet | -30°C To +75°C Wet/90°C Dry |
|--------------------|-----------------------------|

Bend Radius

| Stationary Min.     | Installation Min. |
|---------------------|-------------------|
| 1.992 in (50.60 mm) | 2.49 in           |

|                    |                  |
|--------------------|------------------|
| Max. Pull Tension: | 357 lbs (162 kg) |
| Bulk Cable Weight: | 157 lbs/1000ft   |

Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial   |
| Flammability / Reaction to Fire: | UL1685 UL Loading, T-29-520, IEEE 1202 FT4  |
| NEC / UL Compliance:             | Article 336, NPLF, TC   |
| 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)   |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.426 Revision Date: 06-07-2023 |
|----------------------|--|

Part Numbers

Variants

| Item #          | Color | Putup Type | Length    | UPC          | Footnote |
|-----------------|-------|------------|-----------|--------------|----------|
| 27617A 0105000  | Black | Reel       | 5,000 ft  | 612825134343 | C Z      |
| 27617A 01010000 | Black | Reel       | 10,000 ft | 612825134336 | C Z      |

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