



Product: [28339AS](#)

TC VN/PVC, 5 C #16 Str BC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 5 Conductor 16AWG (7x24) Bare Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 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) | 5               | 16 AWG | 7x24      | 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) | 0.099 in (2.5 mm)        | Black, Red, Blue, Orange, Yellow |

| Outer Shield |                         |          |                  |
|--------------|-------------------------|----------|------------------|
| Shield Type  | Material                | Coverage | Drainwire Type   |
| Tape         | Bi-Laminate (Alum+Poly) | 100%     | 16 AWG (7x24) TC |

| Outer Jacket             |                   |               |         |
|--------------------------|-------------------|---------------|---------|
| Material                 | Nom. Thickness    | Nom. Diameter | Ripcord |
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.366 in      | Yes     |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.366 in |
|-----------------------------------|----------|

Electrical Characteristics

| Electricals        |                                 |
|--------------------|---------------------------------|
| Nom. Conductor DCR | Max. Current                    |
| 4.2 Ohm/1000ft     | 14.4 Amps per Conductor at 30°C |

| Voltage                     |  |
|-----------------------------|--|
| UL Voltage Rating           |  |
| 600 V (TC-ER), 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. |
| 4.392 in (111.6 mm) | 4.392 in          |

|                    |                 |
|--------------------|-----------------|
| Max. Pull Tension: | 210 lbs (95 kg) |
| Bulk Cable Weight: | 94 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, Article 400, Article 760, TC-ER, NPLF, 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) |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.175 Revision Date: 06-07-2023 |
|----------------------|--|

Part Numbers

Variants

| Item #          | Color | Putup Type | Length    | UPC          | Footnote |
|-----------------|-------|------------|-----------|--------------|----------|
| 28339AS 0105000 |       | Reel       |           | 612825136132 |          |
| 28339AS 0105000 | Black | Reel       | 5,000 ft  | 612825136132 |          |
| 28339AS01010000 | Black | Reel       | 10,000 ft | 612825136149 | C Z      |

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