



Product: [27331A](#)

TC VN/PVC, 3 C #16 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, 3 Conductor 16AWG (7x24) 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; Class 1 Division 2 Hazardous Locations; Recommended Cable Gland Belden BTC075A0551RA |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 3 | 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 |

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) | 0.314 in | Yes |

| | |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.314 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current |
|--------------------|-------------------------------|
| 4.2 Ohm/1000ft | 18 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. |
|---------------------|-------------------|
| 1.256 in (31.90 mm) | 1.57 in |

| | |
|--------------------|-------------------|
| Max. Pull Tension: | 107 lbs (48.5 kg) |
| Bulk Cable Weight: | 56 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial |
| Flammability / Reaction to Fire: | UL1685 UL Loading, 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: 0.491 Revision Date: 02-03-2025 |
|----------------------|--|

Part Numbers

Variants

| Item # | Putup Type | UPC |
|----------------|------------|--------------|
| 27331A 0105000 | Reel | 612825133803 |
| 27331A 0105000 | Reel | 612825133803 |

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