



**Product:** [27152A](#)

TC VN/PVC, 2+G C #6+8 Str BC, PVC-NYL Ins M4, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

### Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2+G Conductor 6+8AWG (7x14+7x16) Bare Copper, PVC-NYL Insulation M4 Color Code, Black PVC Outer Jacket, 600V TC 90C Dry/Wet 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 BTC075A0791RA |
|------------------------|---|

#### Construction Details

##### Conductor

| Element      | No. of Elements | Size  | Stranding | Material         |
|--------------|-----------------|-------|-----------|------------------|
| Conductor(s) | 2               | 6 AWG | 7x14      | BC - Bare Copper |
| Ground Wire  | 1               | 8 AWG | 7x16      | BC - Bare Copper |

##### Insulation

| Element      | Material                               | Nom. Thickness     | Nom. Insulation Diameter | Color Code         |
|--------------|--|--------------------|--------------------------|--------------------|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.035 in (0.89 mm) | 0.252 in (6.40 mm)       | Black and Numbered |
| Ground Wire  | No Insulation                          |                    |                          |                    |

##### Outer Shield

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

##### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter | Ripcord |
|--------------------------|-------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.063 in (1.6 mm) | 0.630 in      | Yes     |

Overall Cable Diameter (Nominal): 0.630 in

#### Electrical Characteristics

##### Electricals

| Element      | Nom. Conductor DCR           | Max. Current                  |
|--------------|------------------------------|-------------------------------|
| Conductor(s) | 0.42 Ohm/1000ft              | 75 Amps per Conductor at 30°C |
| Ground Wire  | 0.67 Ohm/1000ft (2.2 Ohm/km) | 55 Amps per Conductor at 30°C |

##### Voltage

| UL Voltage Rating |
|-------------------|
| 600 V             |

#### Mechanical Characteristics

##### Temperature

| UL Temperature     | Operating              |
|--------------------|------------------------|
| 90°C Dry, 75°C Wet | Wet/Dry: -30°C To 90°C |

## Bend Radius

| Stationary Min.   | Installation Min. |
|-------------------|-------------------|
| 2.52 in (64.0 mm) | 3.15 in           |

|                    |                  |
|--------------------|------------------|
| Max. Pull Tension: | 914 lbs (415 kg) |
| Bulk Cable Weight: | 316 lbs/1000ft   |

## Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial   |
| Flammability / Reaction to Fire: | UL 1685 UL Loading, IEEE 1202 FT4   |
| NEC / UL Compliance:             | Article 336, TC, THHN, THWN   |
| 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: 0.600 Revision Date: 02-03-2025 |
|----------------------|--|

## Part Numbers

### Variants

| Item #          | Color | Putup Type | Length    | UPC          |
|-----------------|-------|------------|-----------|--------------|
| 27152A 0105000  |       | Reel       |           | 612825327851 |
| 27152A 0105000  |       | Reel       |           | 612825327851 |
| 27152A 01010000 | Black | Reel       | 10,000 ft | 612825133292 |

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