



Product: [28103A](#)

TC VN/PVC, 25 C #14 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC-ER
150V NPLF 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 25 Conductor 14AWG (7x22) Bare Copper, PVC-NYL Insulation E2 Color Code, 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; Class 1 Division 2 Hazardous Locations; Recommended Cable Gland Belden BTC075A0791RA |
|------------------------|---|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 25 | 14 AWG | 7x22 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--|--------------------|--------------------------|---|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.019 in (0.48 mm) | 0.112 in (2.84 mm) | Black, Red, Blue, Orange, Yellow, Brown, Red/Black, Blue/Black, Orange/Black, Yellow/Black, Brown/Black, Black/Red, Blue/Red, Orange/Red, Yellow/Red, Brown/Red, Black/Blue, Red/Blue, Orange/Blue, Yellow/Blue, Brown/Blue, Black/Orange, Red/Orange, Blue/Orange, Yellow/Orange |

Outer Shield

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

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.063 in (1.6 mm) | 0.798 in (20.3 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.798 in (20.3 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current |
|--------------------|----------------------------------|
| 2.67 Ohm/1000ft | 11.25 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. |
|---------------------|-------------------|
| 3.192 in (81.08 mm) | 3.99 in (101 mm) |

| | |
|--------------------|---------------------|
| Max. Pull Tension: | 1365 lbs (619.2 kg) |
| Bulk Cable Weight: | 519 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, Article 310, Article 760, NPLF, TC-ER, THWN-2 |
| 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

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|----------------------|--|
| Update and Revision: | Revision Number: 0.466 Revision Date: 02-03-2025 |
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Part Numbers

Variants

| Item # | Putup Type | UPC |
|-----------------|------------|--------------|
| 28103A 01010000 | Reel | 612825365020 |
| 28103A 01010000 | Reel | 612825365020 |
| 28103A 0105000 | Reel | 612825365297 |
| 28103A 0105000 | Reel | 612825365297 |

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