



Product: [48085A](#)

TC VN/PVC, 7 C #14 Str BC, PVC-NYL Ins E1, Blk PVC Jkt, 600V TC-ER
150V NPLF 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 7 Conductor 14AWG (Class B) Bare Copper, PVC-NYL Insulation E1 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 |
|------------------------|-------------------------------------------|

Construction Details

Conductor

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

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|----------------------------------------|--------------------|--------------------------|-----------------------------------------------------|
| Conductor(s) | PVC/Nylon - Polyvinyl Chloride + Nylon | 0.024 in (0.61 mm) | 0.116 in mm | Black, White, Red, Green, Orange, Blue, White/Black |

Outer Shield

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

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|-------------------|---------------|---------|
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.442 in | Yes |

Overall Cable Diameter (Nominal): 0.442 in

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current |
|--------------------|---------------------------------|
| 2.52 Ohm/1000ft | 17.5 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. |
|---------------------|-------------------|
| 1.768 in (44.91 mm) | 2.21 in |

| | |
|--------------------|----------------------|
| Max. Pull Tension: | 382.2 lbs (173.4 kg) |
| Bulk Cable Weight: | 155 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, 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

| | |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.60 Revision Date: 02-03-2025 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item # | Putup Type |
|-----------------|------------|
| 48085A 010S5000 | Reel |

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