



Product: [28085AS](#)

TC VN/PVC, 7 C #14 Str BC, PVC-NYL Ins E2, OS, BIK 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 (7x22) 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 | Number of Element | 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 | 0.019 in (0.48 mm) | 0.112 in (2.84 mm) | Black, Red, Blue, Orange, Yellow, Brown, Red/Black |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 14 AWG (7x22) TC |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|-------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.047 in (1.2 mm) | 0.434 in (11.0 mm) | Yes |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.434 in (11.0 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current |
|--------------------|---------------------------------|
| 2.67 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. |
|---------------------|---------------------|
| 5.208 in (132.3 mm) | 5.208 in (132.3 mm) |

| | |
|--------------------|----------------------|
| Max. Pull Tension: | 436.8 lbs (198.1 kg) |
| Bulk Cable Weight: | 169 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) |
| Other Standard Compliance(s): | ICEA S-73-532, S-95-658, S-61-402 |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.244 Revision Date: 07-15-2022 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|-----------------|-------|------------|-----------|--------------|
| 28085AS 0105000 | Black | Reel | 5,000 ft | 612825135166 |
| 28085AS01010000 | Black | Reel | 10,000 ft | 612825135173 |

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.