



Product: [28168A](#)

TC VN/PVC, 3+G C #1/0+6 Str BC, PVC-NYL Ins M4, Blk PVC Jkt, 600V
TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 3+G Conductor 1/0+6AWG (19x12+7x14H) Bare Copper, PVC-NYL Insulation M4 Color Code, Black PVC Outer Jacket, 600V TC-ER 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) | 3 | 1/0 | 19x12 | BC - Bare Copper |
| Ground | 1 | 6 | 7x14 | BC - Bare Copper |

Insulation

| Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--|-------------------|--------------------------|--------------------|
| PVC/Nylon - Polyvinyl Chloride + Nylon | 0.054 in (1.4 mm) | 0.471 in (12.0 mm) | Black and Numbered |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|-------------------|-------------------|---------|
| PVC - Polyvinyl Chloride | 0.083 in (2.1 mm) | 1.22 in (31.0 mm) | Yes |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Max. Current |
|--------------|-----------------------------|--------------------------------|
| Conductor(s) | 0.106 Ohm/1000ft | 170 Amps per Conductor at 30°C |
| Ground | 0.4 Ohm/1000ft (1.3 Ohm/km) | 75 Amps per Conductor at 30°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 600 V (TC-ER) |

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. |
|-----------------|-------------------|
| 6.1 in (150 mm) | 6.1 in (150 mm) |

| | |
|--------------------|------------------------|
| Max. Pull Tension: | 4108.1 lbs (1863.4 kg) |
| Bulk Cable Weight: | 1373 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Sunlight Resistance, Burial |
| Flammability / Reaction to Fire: | UL 1685 UL loading, IEEE 1202 FT4 |
| NEC / UL Compliance: | Article 336, 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: 0.78 Revision Date: 12-22-2023 |
|----------------------|---|

Part Numbers

Variants

| Item # | Putup Type | UPC |
|----------------|------------|--------------|
| 28168A 0102500 | Reel | 612825365662 |
| 28168A 0103500 | Reel | |
| 28168A 0105000 | Reel | 612825365327 |
| 28168A 0105300 | Reel | |

© 2024 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.