



Product: [27090A](#)

TC VN/PVC, 12 C #14 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC 150V
NPLF 90C Dry 75C Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 12 Conductor 14AWG (7x22) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Dry 75C Wet SUN RES DIR BUR

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors |
|--------------|-----|-----------|------------------|-------------------|
| Conductor(s) | 14 | 7x22 | BC - Bare Copper | 12 |

Conductor Count: 12

Insulation

| Material | Nominal Diameter |
|--|------------------|
| PVC/Nylon - Polyvinyl Chloride + Nylon | 0.116 in |

Color Chart

| Number | Color |
|--------|--------------|
| 1 | Black |
| 2 | Red |
| 3 | Blue |
| 4 | Orange |
| 5 | Yellow |
| 6 | Brown |
| 7 | Red/Black |
| 8 | Blue/Black |
| 9 | Orange/Black |
| 10 | Yellow/Black |
| 11 | Brown/Black |
| 12 | Black/Red |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.607 in | 0.063 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 2.52 Ohm/1000ft |

Current

Max. Recommended Current [A]

7.5 Amps per Conductor

Voltage

| UL Description | UL Voltage Rating | Voltage Rating [V] |
|----------------|---------------------|---------------------|
| TC | 600 V RMS (Type TC) | 600 V RMS (Type TC) |
| NPLF | 150 V RMS (NPLF) | |

Temperature Range

| | |
|-----------------|-----------------|
| Wet Temp Range: | -30°C To +75 °C |
| Dry Temp Range: | -30°C To +90 °C |

Mechanical Characteristics

| | |
|------------------------------|----------------|
| Bulk Cable Weight: | 270 lbs/1000ft |
| Max. Pull Tension: | 655 lbs |
| Min. Bend Radius/Minor Axis: | 2.43 in |

Applicable Environmental and Other Programs

| | |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Burial: | Yes |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|---------------------|
| UL Flammability: | UL1685 UL Loading |
| IEEE Flammability: | 1202 |
| UL voltage rating: | 600 V RMS (Type TC) |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers**Variants**

| Item # | Color | Put-Up Type | Length | UPC |
|----------------|-------|-------------|----------|--------------|
| 27090A 0105000 | Black | Reel | 5,000 ft | 612825132844 |

Footnote: C - CRATE REEL PUT-UP.

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.407 Revision Date: 05-31-2024 |
|----------------------|--|

© 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.

