



**Product:** [28111A](#) 

TC VN/PVC, 4 C #12 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, 4 Conductor 12AWG (7x20) 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 BTC075A0551RA
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	4	12	7x20	BC - Bare Copper

#### Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.123 in (3.12 mm)	Black, Red, Blue, Orange

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.417 in (10.6 mm)	Yes

### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Max. Current
1.68 Ohm/1000ft	24 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.
1.64 in (41.7 mm)	2.05 in (52.1 mm)

Max. Pull Tension:	347.2 lbs (157.5 kg)
Bulk Cable Weight:	132 lbs/1000ft

### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
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Flammability / Reaction to Fire:	UL 1685 UL loading, IEEE 1202 FT4
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 336, Article 760, NPLF, TC-ER, THWN-2 Singles
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark

## History

Update and Revision:	Revision Number: 0.631 Revision Date: 02-20-2026
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
28111A 01025000		Reel		612825330448
28111A 0105000	Black	Reel	5,000 ft	612825135319
28111A 01010000	Black	Reel	10,000 ft	612825135302

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