



**Product:** [28161A](#)

TC VN/PVC, 3+G C #1+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+6AWG (19x14+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; Class 1 Division 2 Hazardous Locations; Recommended Cable Gland Belden BTC125A1271RA
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	1 AWG	19x14	BC - Bare Copper
Ground Wire	1	6 AWG	7x14	BC - Bare Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.057 in (1.4 mm)	0.445 in (11.3 mm)	Black and Numbered
Ground Wire	No Insulation			

##### Outer Shield

Material
No Shield

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.125 in (28.58 mm)	Yes

Overall Cable Diameter (Nominal):	1.125 in (28.58 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.13 Ohm/1000ft	145 Amps per Conductor at 30°C
Ground Wire	0.42 Ohm/1000ft (1.4 Ohm/km)	75 Amps per Conductor at 30°C

##### Voltage

UL Voltage Rating
600 V

#### 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.
5.625 in (142.9 mm)	6.75 in (171 mm)

Max. Pull Tension:	3408.3 lbs (1546.0 kg)
Bulk Cable Weight:	1177 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, TC-ER, THWN-2
European Directive Compliance:	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: 0.481 Revision Date: 02-03-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
28161A 0105000	Black	Reel	5,000 ft	612825135654

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