



**Product:** [A02062](#)

TC VN/PVC, 2 C #6 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

## Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2 Conductor 6AWG (Class B) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 90C Dry/Wet SUN RES DIR BUR

## Technical Specifications

### Product Overview

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors
Conductor(s)	6	7x14.5	BC - Bare Copper	0.179 in	2

Conductor Count:	2
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#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.254 in	0.038 in

#### Color Chart

Number	Color
1	Black
2	Red

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.634 in	0.063 in

### Electrical Characteristics

#### Conductor DCR

<b>Nominal Conductor DCR</b>
0.41 Ohm/1000ft

#### Current

<b>Max. Recommended Current [A]</b>
75 Amps per Conductor at 30°C

#### Voltage

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
Type TC	TC	600 V RMS (Type TC)	600 V RMS (Type TC)

### Temperature Range

UL Temp Rating:	90°C Dry, 90°C Wet
Operating Temperature Range:	-30°C To +90°C

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

## Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	795 lbs/1000ft
Max. Pull Tension:	528 lbs
Min Bend Radius (Overall):	6.3 in
Min. Bend Radius/Minor Axis:	2.54 in

## Standards

NEC/(UL) Compliance:	TC, THWN-2
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## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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:	Yes
EU CE Mark:	Yes

## Suitability

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

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

Item #	Put-Up Type
A02062 0102500	Reel

## History

Update and Revision:	Revision Number: 0.55 Revision Date: 02-03-2025
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