



Product: [A15102](#)

TC VN/PVC, 15 C #10 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

### Product Description

UL Type TC (1277) PVC-Nylon/PVC, 15 Conductor 10AWG (7x18) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC-ER 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	No. of Conductors
Conductor(s)	10	7x18	BC - Bare Copper	15

Conductor Count:	15
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##### Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.166 in

##### Color Chart

Number
ICEA Table E2

##### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.946 in	0.083 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR
1.04 Ohm/1000ft

##### Current

Max. Recommended Current [A]
20 Amps per Conductor at 30°C

##### Voltage

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

#### Temperature Range

UL Temp Rating:	90°C Dry, 90°C Wet
Operating Temperature Range:	-25°C To +90°C
Wet Temp Range:	-30°C To +90 °C

Dry Temp Range:	-30°C To +90 °C
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## Mechanical Characteristics

UV Resistance:	Yes
Min Bend Radius (Overall):	9.46 in
Min. Bend Radius/Minor Axis:	3.78 in

## Standards

NEC/(UL) Compliance:	TC-ER
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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:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

## Suitability

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

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
UL voltage rating:	600 V RMS (Type TC)

## History

Update and Revision:	Revision Number: 0.51 Revision Date: 01-10-2024
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