



**Product:** [A02121J](#)

TC VN/PVC, 2+G C #12 Str BC, PVC-NYL Ins E1, 1 #12 Str BC PVC-Nyl GRD, Blk PVC Jkt, 600V TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

## Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2+G Conductor 12AWG (7x20) Bare Copper, PVC-NYL Insulation E1 Color Code, 1 12(7x20) Bare Copper PVC-NYLON Ground Wire, 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
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	12 AWG	7x20	BC - Bare Copper
Ground Wire	1	12 AWG	7x20	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.134 in mm	Black, White
Ground Wire	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.134 in in	Green

#### Outer Shield

Material
No Shield

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.383 in	Yes

Overall Cable Diameter (Nominal):	0.383 in
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.68 Ohm/1000ft	30 Amps per Conductor at 30°C
Ground Wire	1.72 Ohm/1000ft (5.64 Ohm/km)	

#### Voltage

UL Voltage Rating
600 V

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-30°C to 90°C Wet/Dry

## Bend Radius

Stationary Min.	Installation Min.
1.532 in (38.91 mm)	1.915 in

Max. Pull Tension:	154 lbs (69.9 kg)
Bulk Cable Weight:	107 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:	TC-ER, THWN-2
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

## History

Update and Revision:	Revision Number: 0.96 Revision Date: 05-31-2024
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