



**Product:** [27159A](#)

TC VN/PVC, 3+G C #2+6 Str BC, PVC-NYL Ins M4, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

## Product Description

UL Type TC (1277) PVC-Nylon/PVC, 3+G Conductor 2+6AWG (7x10+7x14) Bare Copper, PVC-NYL Insulation M4 Color Code, Black PVC Outer Jacket, 600V TC 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	Number of Element	Size	Stranding	Material
Conductor(s)	3	2 AWG	7x10	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	0.049 in (1.2 mm)	0.381 in (9.68 mm)	Black and Numbered
Ground Wire	No Insulation			

#### Outer Shield

<b>Material</b>
No Shield

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	0.987 in	Yes

Overall Cable Diameter (Nominal):	0.987 in
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.166 Ohm/1000ft	130 Amps per Conductor at 30°C
Ground Wire	0.47 Ohm/1000ft (1.5 Ohm/km)	78 Amps per Conductor at 25°C

#### Voltage

<b>UL Voltage Rating</b>
600 V

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
90°C Dry, 75°C Wet	-30°C To +75°C Wet/90°C Dry

#### Bend Radius

Stationary Min.	Installation Min.
3.948 in (100.3 mm)	4.935 in

Max. Pull Tension:	2781.7 lbs (1261.8 kg)
Bulk Cable Weight:	942 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC, THHN, THWN
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ICEA S-95-658, S-61-402

## History

Update and Revision:	Revision Number: 0.478 Revision Date: 07-01-2022
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
27159A 0105000	Black	Reel	5,000 ft	612825133353

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