



**Product:** [28159A](#)

TC VN/PVC, 3+G C #2+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 2+6AWG (7x10+7x14) 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
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**Construction Details**

Conductor				
Element	No. of Elements	Size	Stranding	Material
Conductor(s)	3	2	7x10	BC - Bare Copper
Ground	1	6	7x14	BC - Bare Copper

Insulation			
Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.042 in (1.1 mm)	0.367 in (9.32 mm)	Black and Numbered

Outer Jacket			
Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	0.987 in (25.1 mm)	Yes

**Electrical Characteristics**

Electricals		
Element	Nom. Conductor DCR	Max. Current
Conductor(s)	0.16 Ohm/1000ft	130 Amps per Conductor at 30°C
Ground	0.4 Ohm/1000ft (1.3 Ohm/km)	78 Amps per Conductor at 25°C

Voltage	
UL Voltage Rating	
600 V (TC-ER)	

**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.
3.92 in (99.6 mm)	4.9 in (120 mm)

Max. Pull Tension:	2671.7 lbs (1211.9 kg)
Bulk Cable Weight:	923 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC-ER, THWN-2 Singles
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: 0.305 Revision Date: 12-22-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
28159A 0105000	Black	Reel	5,000 ft	612825135616

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