



**Product:** [28331AS](#)

TC VN/PVC, 3 C #16 Str BC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 3 Conductor 16AWG (7x24) Bare Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, 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)	3	16 AWG	7x24	BC - Bare Copper

Insulation				
Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.020 in (0.51 mm)	0.099 in (2.5 mm)	Black, Red, Blue

Outer Shield			
Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

Outer Jacket			
Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.310 in	Yes

Overall Cable Diameter (Nominal):	0.310 in
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Electrical Characteristics

Electricals	
Nom. Conductor DCR	Max. Current
4.2 Ohm/1000ft	18 Amps per Conductor at 30°C

Voltage	
UL Voltage Rating	
600 V (TC-ER), 150 V (NPLF)	

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.
3.72 in (94.5 mm)	3.72 in

Max. Pull Tension:	150 lbs (68 kg)
Bulk Cable Weight:	66 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, Article 400, Article 760, TC-ER, NPLF, TFFN
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: 0.396 Revision Date: 06-07-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
28331AS 0105000	Black	Reel	5,000 ft	612825135944	C Z
28331AS01010000	Black	Reel	10,000 ft	612825381891	C Z

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