



Product: [27331AS](#)

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

Technical Specifications

Product Overview

Suitable Applications:	Power and Control Applications up to 600V; Class 1 Division 2 Hazardous Locations; Recommended Cable Gland Belden BTC075A0551RA
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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)	ICEA Chart E2

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)	0.309 in	Yes

Overall Cable Diameter (Nominal):	0.309 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	4.2 Ohm/1000ft	18 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V (TC), 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.
3.708 in (94.18 mm)	3.708 in

Max. Pull Tension:	130 lbs (59 kg)
Bulk Cable Weight:	62 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:	Article 336, NPLF, TC
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: 0.489 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
27331AS 0105000	Black	Reel	5,000 ft	612825133810	C Z
27331AS01010000	Black	Reel	10,000 ft	612825133827	C Z

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