



Product: [27643AS](#)

TC VN/PVC, 2 C #10 Str BC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2 Conductor 10AWG (7x18H) Bare Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, 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; 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)	2	10 AWG	7x18	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.027 in (0.69 mm)	0.166 in mm	Black, Red

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.048 in (1.2 mm)	.432 in	Yes

Overall Cable Diameter (Nominal): 0.432 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
1.06 Ohm/1000ft	40 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
5.184 in (131.7 mm)	5.184 in

Max. Pull Tension:	263.6 lbs (119.6 kg)
Bulk Cable Weight:	133 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
Flammability / Reaction to Fire:	UL1685 UL Loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC, 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)
Plenum Number:	ICEA S-73-532, S-95-658, S-61-402

History

Update and Revision:	Revision Number: 0.249 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Putup Type	UPC
27643AS 0105000	Reel	612825329770
27643AS 0105000	Reel	612825329770
27643AS01010000	Reel	612825329787

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