



Product: [27641AS](#)

TC VN/PVC, 2 C #12 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, 2 Conductor 12 AWG (7x20) 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)	2	12 AWG	7x20	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.134 in mm	Black and Numbered

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	14 AWG (7x22) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.366 in	Yes

Overall Cable Diameter (Nominal): 0.366 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
1.68 Ohm/1000ft	30 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	-30°C to 90°C Dry/Wet

Bend Radius

Stationary Min.	Installation Min.
4.392 in (111.6 mm)	4.392 in

Max. Pull Tension:	228 lbs (103 kg)
Bulk Cable Weight:	89 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading, T-29-520, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, Article 760, TC-ER, NPLF, 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:	{delete}

History

Update and Revision:	Revision Number: 0.69 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Putup Type	UPC
27641AS 0105000	Reel	612825329701
27641AS01010000	Reel	612825329718
27641AS 0105000	Reel	612825329701
27641AS01010000	Reel	612825329718

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