



Product: [28110AZ](#)

TC VN/PVC, 3+G C #12+12 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V
TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVCN/PVC, 3+G Conductor 12+12AWG (Class B) Bare Copper, PVC-NYL Insulation E2 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	12 AWG	7x20	BC - Bare Copper
Ground Wire	1	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, Red, Blue
Ground Wire	PVC/Nylon - Polyvinyl Chloride + Nylon	0.017 in (0.43 mm)	0.134 in in	Green

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.417 in (10.6 mm)	Yes

Overall Cable Diameter (Nominal):	0.417 in (10.6 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.72 Ohm/1000ft	30 Amps per Conductor at 30°C
Ground Wire	1.72 Ohm/1000ft (5.64 Ohm/km)	30 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	-25°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
1.668 in (42.37 mm)	2.085 in (52.96 mm)

Max. Pull Tension:	347.2 lbs (157.5 kg)
Bulk Cable Weight:	131 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, Article 760, Article 310, 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)

History

Update and Revision:	Revision Number: 0.76 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Putup Type
28110AZ 0105000	Reel
28110AZ01010000	Reel
28110AZ01020000	Reel

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