



Product: [48643AZ](#)

TC VN/PVC, 2+G C #10+10 Str BC, PVC-NYL Ins E1, Blk PVC Jkt, 600V
TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2+G Conductor 10+10AWG (7x18) Bare Copper, PVC-NYL Insulation E1 Color Code, 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	Number of Element	Size	Stranding	Material
Conductor(s)	2	10 AWG	7x18	BC - Bare Copper
Ground Wire	1	10 AWG	7x18	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.028 in (0.71 mm)	0.166 in mm	Black, White, Green
Ground Wire	PVC/Nylon - Polyvinyl Chloride + Nylon	0.028 in (0.71 mm)	0.166 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)	0.451 in (11.5 mm)	Yes

Overall Cable Diameter (Nominal):	0.451 in (11.5 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	1.04 Ohm/1000ft	40 Amps per Conductor at 30°C
Ground Wire	1.08 Ohm/1000ft (3.54 Ohm/km)	42 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
600 V

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.
1.804 in (45.82 mm)	2.255 in (57.28 mm)

Max. Pull Tension:	470.4 lbs (213.4 kg)
Bulk Cable Weight:	162 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, TC-ER, 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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ICEA S-73-532, S-95-658, S-61-402

History

Update and Revision:	Revision Number: 0.58 Revision Date: 07-15-2022
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Part Numbers

Variants

Item #	Putup Type	UPC
48643AZ 0105000	Reel	612825336280
48643AZ01010000	Reel	612825336297

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