



Product: [A03122J](#)

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) PVC-Nylon/PVC, 3+G Conductor 12+12AWG (7x20) 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	0.019 in (0.48 mm)	0.131 in (3.33 mm)	ICEA Chart E2
Ground Wire	PVC/Nylon - Polyvinyl Chloride + Nylon	0.019 in (0.48 mm)	0.131 in (3.33 mm)	Green

Outer Shield

Material
No Shield

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.408 in	Yes

Overall Cable Diameter (Nominal):	0.408 in
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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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
1.63 in (41.4 mm)	2.04 in

Max. Pull Tension:	347.2 lbs (157.5 kg)
Bulk Cable Weight:	136 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 310, 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)

History

Update and Revision:	Revision Number: 0.63 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Putup Type
A03122J 0105000	Reel
A03122J01010000	Reel
A03122J01020000	Reel

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