



Product: [3104A](#)

TC VN/PVC, 3 C #12 Str BC, PVC-NYL Ins E1, OS, Blk PVC Jkt, 600V TC-ER 150V NPLF 90C Dry 75C Wet SUN RES DIR BUR

[Request Sample](#)

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 3 Conductor 12AWG (7x20) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry 75C 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

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 E1

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)	0.384 in	Yes

Overall Cable Diameter (Nominal):	0.384 in
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Electrical Characteristics

Electricals	
Nom. Conductor DCR	Max. Current
1.68 Ohm/1000ft	24 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, 75°C Wet	Wet/Dry: -30°C To 90°C

Bend Radius	
Stationary Min.	Installation Min.
4.608 in (117.0 mm)	4.608 in

Max. Pull Tension:	315 lbs (143 kg)
Bulk Cable Weight:	118 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading, T-29-520, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, NPLF, TC-ER, THHN, THWN
European Directive Compliance:	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)

Product Notes

Notes:	Alternate color coding available upon request.
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History

Update and Revision:	Revision Number: 0.285 Revision Date: 03-27-2024
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Part Numbers

Variants

Item #	Putup Type	UPC
3104A 0102500	Reel	612825334538
3104A 0105000	Reel	612825334545
3104A 0105000	Reel	612825334545

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