

Product: <u>A03124R</u> ☑

IMAGE COMING SOON

TC VN/PVC, 3 C #12 Str BC, PVC-NYL Ins M4, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 3 Conductor 12AWG (7x20) Bare Copper, PVC-NYL Insulation M4 Color Code, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	12	7x20	BC - Bare Copper	3
Conductor Co	unt:		3	

Insulation

	Material	Nominal Diameter
ľ	PVC/Nylon - Polyvinyl Chloride + Nylon	0.131 in

Color Chart

Number	Color
1	Black Numbered 1
2	Black Numbered 2
3	Black Numbered 3

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.374 in	0.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DC	R
1.65 Ohm/1000ft	

Current

Max. Recommended Current [A]
30 Amps per Conductor at 30°C

Voltage

UL Description	UL Voltage Rating	Voltage Rating [V]
TC	600 V RMS (Type TC)	600 V RMS (Type TC)

Temperature Range

UL Temp Rating: 90°C Dry, 90°C Wet

Operating Temperature Range:	-25°C To +90°C
Wet Temp Range:	-30°C To +90 °C
Dry Temp Range:	-30°C To +90 °C

Mechanical Characteristics

UV Resistance:	Yes
Min Bend Radius (Overall):	3.74 in
Min. Bend Radius/Minor Axis:	1.50 in

Standards

NEC/(UL) Compliance: TC-ER

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
UL voltage rating:	600 V RMS (Type TC)

Related Part Numbers

Variants

ltem #	Put-Up Type
A03124R 0102500	Reel
A03124R 0105000	Reel
A03124R01010000	Reel

History

Update and Revision: Revision Number: 0.49 Revision Date: 02-03-2025

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