



Product: [A03024C](#)

TC VN/PVC, 3+G C #2+6 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+G Conductor 2+6AWG (Class B) 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)	2	7x10	BC - Bare Copper	3
Ground	6	7x14	BC - Bare Copper	1
Conductor Count:		3		

Insulation	
Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.381 in
No Insulation	

Color Chart	
Number	Color
1	Black
2	Black
3	Black

Outer Jacket		
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.990 in	0.083 in

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	
0.16 Ohm/1000ft	

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

Voltage		
UL Description	UL Voltage Rating	Voltage Rating [V]
TC-ER	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

Min Bend Radius (Overall):	7.92 in
Min. Bend Radius/Minor Axis:	3.96 in

Standards

NEC/(UL) Compliance:	TC-ER
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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 - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

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

Related Part Numbers

Variants

Item #	Put-Up Type
A03024C 0102500	Reel
A03024C 0105000	Reel

History

Update and Revision:	Revision Number: 0.57 Revision Date: 02-03-2025
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