



Product: <u>A020823</u> ☑

TC VN/PVC, 2+G C #8 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC 90C Dry/Wet SUN RES DIR BUR

Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2+G Conductor 8AWG (Class B) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 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
оппаріс Арріїсаціона.	process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	8	7x16.5	BC - Bare Copper	2
Ground	8	7x16	BC - Bare Copper	1
Conductor Co	unt:		2	

Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.204 in
PVC/Nylon - Polyvinyl Chloride + Nylon	

Color Chart



Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.595 in	0.063 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 0.64 Ohm/1000ft

Current



Voltage

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

Temperature Range

UL Temp Rating:

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

Mechanical Characteristics

UV Resistance:	Yes
Min Bend Radius (Overall):	5.95 in
Min. Bend Radius/Minor Axis:	2.38 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

Item #	Put-Up Type
A020823 0105000	Reel

History

Update and Revision:	Revision Number: 0.61 Revision Date: 02-03-2025

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