

Product: <u>A02082</u> ☑

IMAGE COMING SOON

TC VN/PVC, 2 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 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 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	Nominal Diameter	No. of Conductors
Conductor(s)	8	7x16.5	BC - Bare Copper	0.143 in	2
Conductor Co	ount:		2		

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.218 in	0.038 in

Color Chart

Number	Color
1	Black
2	Red

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.506 in	0.047 in

Electrical Characteristics

Conductor DCR

Nominal Conductor D	C
0.64 Ohm/1000ft	

Current

Max.	Recommended Current [A]
55 Ai	mps per Conductor at 30°C

Voltage

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
Туре ТС	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:	-30°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
Bulk Cable Weight:	195 lbs/1000ft
Max. Pull Tension:	266 lbs
Min Bend Radius (Overall):	5.0 in
Min. Bend Radius/Minor Axis:	2.02 in

Standards

NEC/(UL) Compliance:	TC. THWN-2

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:	Yes
EU CE Mark:	Yes

Suitability

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

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Plenum/Non-Plenum

Plenum (Y/N): No		
	Plenum (Y/N):	No

Related Part Numbers

Variants

ltem #	Put-Up Type
A02082 0102500	Reel

History

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

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