



**Product:** [27138A](#)

TC VN/PVC, 2 C #10 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC 90C  
Wet/Dry SUN RES DIR BUR

## Product Description

UL Type TC (1277) PVC-Nylon/PVC, 2 Conductor 10AWG (7x18) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 90C Wet/Dry SUN RES DIR BUR

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
10	7x18	BC - Bare Copper	2

Conductor Count:	2
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#### Insulation

Material	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.164 in

#### Color Chart

Number	Color
1	Black
2	Red

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.26 x 0.426 in	0.047 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
1.04 Ohm/1000ft

#### Current

Max. Recommended Current [A]
40 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 Temp Range:	Wet/Dry: -30°C to 90°C
Wet Temp Range:	-30°C To +90 °C
Dry Temp Range:	-30°C To +90 °C

## Mechanical Characteristics

Bulk Cable Weight:	83 lbs/1000ft
Max. Pull Tension:	166 lbs
Min Bend Radius/Minor Axis:	1.04 in

## Standards

NEC/(UL) Compliance:	TC, THWN-2 Singles
Other Compliance:	ICEA S-73-532, S-95-658, S-61-402

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

## Suitability

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

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
27138A 0105000	Black	Reel	5,000 ft	612825133162
27138A 01010000	Black	Reel	10,000 ft	612825133155

Footnote:	C - CRATE REEL PUT-UP.
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## Product Notes

Notes:	Flat/Parallel Construction; Overall shield not available
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## History

Update and Revision:	Revision Number: 0.331 Revision Date: 06-24-2020
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