



**Product:** [28139AZ](#)

TC VN/PVC, 3+G C #10 + GRN GRND #10 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

**Product Description**

UL Type TC (1277) VN/PVC, 4+G Conductor 10AWG (Class B) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC-ER 90C Dry/Wet SUN RES DIR BUR

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
10	7x18	BC - Bare Copper	0.110 in	3
10		BC - Bare Copper		1

Conductor Count: 3

**Insulation**

Material	Nominal Diameter	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.146 in	0.022 in
PVC/Nylon - Polyvinyl Chloride + Nylon	0.156 in	0.005 in

**Color Chart**

Number	Color
1	Black
2	Red
3	Blue
4	Green Ground

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.495 in	0.047 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
1.04 Ohm/1000ft
1.04 Ohm/1000ft

**Current**

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

**Voltage**

Description	UL Description	UL Voltage Rating	Voltage Rating [V]
Type TC	TC-ER	600 V RMS (Type TC)	600 V RMS (Type TC)
Type NPLF	NPLF	150 V RMS (Type NPLF)	150 V RMS

**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

UV Resistance:	Yes
Bulk Cable Weight:	197 lbs/1000ft
Max. Pull Tension:	332 lbs
Min Bend Radius/Minor Axis:	1.98 in

## Standards

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

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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:	Yes
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, LS0H, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
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

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

## History

Update and Revision:	Revision Number: 0.35 Revision Date: 06-24-2020
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