



**Part Number: 28081A**

TC VN/PVC, 3 C #14 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry/Wet SUN RES DIR BUR

**Product Description**

UL Type TC (1277) PVC-Nylon/PVC, 3 Conductor 14AWG (7x22) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry/Wet SUN RES DIR BUR

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Conductors
14	7x22	BC - Bare Copper	3

Conductor Count:	3
Conductor Size:	14 AWG

**Insulation**

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride/Nylon	0.116 in

**Color Chart**

Number	Color
1	Black
2	Red
3	Blue

**Outer Shield Material**

Material
Unshielded

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.346 in	0.047 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
2.52 Ohm/1000ft

**Current**

Max. Recommended Current [A]
25 Amps per conductor @ 30C

**Voltage**

UL Description	UL Voltage Rating
NPLF	150 V RMS
TC	600 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 +75 °C
Dry Temp Range:	-30°C To +90 °C

## Mechanical Characteristics

Bulk Cable Weight:	80 lbs/1000ft
Max Recommended Pulling Tension:	97 lbs
Min Bend Radius/Minor Axis:	3.5 in

## Standards

NEC Articles:	336
NEC/(UL) Specification:	NPLF, TC-ER, THWN-2 Singles
Other Specification:	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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	150 V RMS

## Plenum/Non-Plenum

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

### Variants

Item #	Color	UPC	Length	Footnote
28081A 0105000	Black	612825135029	5,000 ft	C Z
28081A 01010000	Black	612825135012		C Z

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.

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