



**Product:** [28644A](#)

TC VN/PVC, 60 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, 60 Conductor 14AWG (Class B) 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**

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors
Conductor(s)	14	7x22	BC - Bare Copper	0.071 in	60

Conductor Count:	60
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**Insulation**

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.112 in

**Color Chart**

Number	Color
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6	Brown
7	Red/Black
8	Blue/Black
9	Orange/Black
10	Yellow/Black
11	Brown/Black
12	Black/Red
13	Blue/Red
14	Orange/Red
15	Yellow/Red
16	Brown/Red
17	Black/Blue
18	Red/Blue
19	Orange/Blue
20	Yellow/Blue
21	Brown/Blue
22	Black/Orange
23	Red/Orange
24	Blue/Orange
25	Yellow/Orange
26	Brown/Orange
27	Black/Yellow

28	Red/Yellow
29	Blue/Yellow
30	Orange/Yellow
31	Brown/Yellow
32	Black/Brown
33	Red/Brown
34	Blue/Brown
35	Orange/Brown
36	Yellow/Brown
37-60	Repeats of 1-24 respectively

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.192 in	0.083 in

## Construction and Dimensions

#### Cabling

Filler
PP Filler

## Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
2.52 Ohm/1000ft

#### Current

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

#### Voltage

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

## Temperature Range

UL Temp Rating:	90°C Dry, 90°C Wet
Operating Temp Range:	-25°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:	1324 lbs/1000ft
Min Bend Radius (Overall):	12 in
Min. Bend Radius/Minor Axis:	5.96 in

## Standards

NEC Articles:	Article 336
NEC/(UL) Compliance:	TC-ER, THHN, THWN
IEEE Compliance:	1202

## 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
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65:	Yes

## Suitability

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

## Flammability, LSOH, Toxicity Testing

CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

## Part Number

### Variants

Item #	Put-Up Type	UPC
28644A 0105000	Reel	612825366508

## History

Update and Revision:	Revision Number: 0.46 Revision Date: 08-27-2021
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