



**Product:** [27127A](#)

TC VN/PVC, 20 C #12 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC 150V  
NPLF 90C Dry 75C Wet SUN RES DIR BUR

## Product Description

UL Type TC (1277) PVC-Nylon/PVC, 20 Conductor 12AWG (7x20) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Dry 75C Wet SUN RES DIR BUR

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Conductors
12	7x20	BC - Bare Copper	20

Conductor Count:	20
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#### Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.134 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

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.816 in	0.063 in

### Electrical Characteristics

## Conductor DCR

### Nominal Conductor DCR

1.65 Ohm/1000ft

## Current

### Max. Recommended Current [A]

14 Amps per Conductor at 25°C

## Voltage

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

## Temperature Range

UL Temp Rating:	90°C Dry, 75°C Wet
Wet Temp Range:	-30°C To +75 °C
Dry Temp Range:	-30°C To +90°C Dry

## Mechanical Characteristics

Bulk Cable Weight:	640 lbs/1000ft
Max. Pull Tension:	1217 lbs
Min Bend Radius/Minor Axis:	3.26 in

## Standards

NEC/(UL) Compliance:	NPLF, TC, THHN, THWN
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, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
ICEA Flammability:	T-29-520
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 #	Putup Type	UPC
27127A 0105000	Reel	612825327219
27127A 0105000	Reel	612825327219

## History

Update and Revision:

Revision Number: 0.196 Revision Date: 06-24-2020

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