



**Product:** [27112A](#)

TC VN/PVC, 5 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, 5 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

### Product Overview

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners
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### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	12	7x20	BC - Bare Copper	5

Conductor Count: 5

#### Insulation

Material
PVC/Nylon - Polyvinyl Chloride + Nylon

#### Color Chart

Number	Color
1	Black
2	Red
3	Blue
4	Orange
5	Yellow

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.445 in	0.047 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
1.65 Ohm/1000ft

#### Current

Max. Recommended Current [A]
16 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 (NPLF)	

## Temperature Range

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

## Mechanical Characteristics

Bulk Cable Weight:	158 lbs/1000ft
Max. Pull Tension:	304 lbs
Min. Bend Radius/Minor Axis:	1.78 in

## Standards

NEC/(UL) Compliance:	NPLF, TC, THHN/THWN Singles
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## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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
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 UL Loading
IEEE Flammability:	IEEE 1202
UL voltage rating:	600 V RMS (Type TC)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
27112A 0105000		Reel		612825133087
27112A 0105000		Reel		612825133087
27112A 01010000	Black	Reel	10,000 ft	612825133070

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.314 Revision Date: 02-03-2025
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