



**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

Physical Characteristics (Overall)

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

Material
PVC/Nylon - Polyvinyl Chloride + Nylon

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

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
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 2003/11/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, LS0H, Toxicity Testing

UL Flammability:	UL1685 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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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: 0.310 Revision Date: 11-09-2022
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