



**Product:** [27123A](#)

TC VN/PVC, 16 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, 16 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	16

Conductor Count:	16
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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

**Outer Jacket Material**

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.737 in	0.063 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 (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:	490 lbs/1000ft
Max. Pull Tension:	972 lbs
Min Bend Radius/Minor Axis:	2.95 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, LSOH, 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
27123A 0105000	Reel	612825327103
27123A 0105000	Reel	612825327103

**History**

Update and Revision:	Revision Number: 0.200 Revision Date: 06-24-2020
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