



Product: [27090A](#)

TC VN/PVC, 12 C #14 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, 12 Conductor 14AWG (7x22) 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)	14	7x22	BC - Bare Copper	12

Conductor Count: 12

Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.116 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

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.607 in	0.063 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
2.52 Ohm/1000ft

Current

Max. Recommended Current [A]

7.5 Amps per Conductor

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

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

Mechanical Characteristics

Bulk Cable Weight:	270 lbs/1000ft
Max. Pull Tension:	655 lbs
Min. Bend Radius/Minor Axis:	2.43 in

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 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
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
27090A 0105000	Black	Reel	5,000 ft	612825132844

Footnote: C - CRATE REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.408 Revision Date: 02-03-2025
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