

Product SKU: 243600.00.77

Product Description: VNTCÂ® Control, Unshielded, PVC, Nylon, PVC, Volts: 600V, UL Type TC, No. of Conductors: 19, Conductor Size (AWG): 12, Conductor Strands: 7/.0305, Rated at 90Â°C dry, 75Â°C wet

Product Category: Instrumentation, Power, Control & Specialty - Control & Low-Voltage Cables - 600V - VNTCÂ® Control, Unshielded, PVC/Nylon/PVC- 14, 12 and 10 AWG - 12 AWG Conductors



Product Construction:

- | | |
|------------------|--|
| Cable Type: | <ul style="list-style-type: none">• VNTCÂ® Control |
| Shield Type: | <ul style="list-style-type: none">• Unshielded |
| Insulation Type: | <ul style="list-style-type: none">• PVC/Nylon |
| Jacket Type: | <ul style="list-style-type: none">• PVC |
| Volts: | <ul style="list-style-type: none">• 600V |
| Conductors: | <ul style="list-style-type: none">• Class B stranding per ASTM B8• Fully-annealed stranded bare copper per ASTM B3 |
| Insulation: | <ul style="list-style-type: none">• Color Code: per ICEA Method 1; Table E-2 (Does not include white or green)• Flame-retardant Polyvinyl Chloride (PVC) with clear polyamide (nylon) |
| Jacket: | <ul style="list-style-type: none">• Flame-retardant, moisture and sunlight-resistant Polyvinyl Chloride (PVC) |
| Print: | <ul style="list-style-type: none">• GENERAL CABLEÂ® BICCÂ® BRAND (WC) VNTC XX/C XXAWG (UL) TYPE TC THHN/THWN SUN RES DIR BUR 600V MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK |

- Options:
- 100% Flexfoil [®] aluminum/polyester shield with 25% overlap
 - Class C stranding
 - E-1 color code
 - Other constructions available upon request
 - Tinned copper conductor

Product Specification:

- No. of Conductors: • 19
- Conductor Size (AWG/kcmil): • 12
- Conductor Strand: • 7/.0305
- Minimum Average Insulation Thickness (in): • 0.020
- Minimum Average Insulation Thickness (mm): • 0.51
- Minimum Average Jacket Thickness (in): • 0.060
- Minimum Average Jacket Thickness (mm): • 1.52
- Nominal Cable Outside Diameter (in): • 0.800
- Nominal Cable Outside Diameter (mm): • 20.32
- Approximate Copper Weight (lbs per 1,000 ft): • 403.35
- Approximate Net Weight (lbs per 1,000 ft): • 568
- Approximate Net Weight (kg per 1,000 km): • 845
- Footnote: • Dimensions and weights are nominal; subject to industry tolerance.
- UPC #: • 079407008537
- SCC-14: • 10079407008533
- Weight Per Unit of Measure: • .5881

Conductor Size (AWG):

- 12

Product Information:

Applications:

- Approved for direct burial, Class I, Div. 2 industrial hazardous locations per NEC Article 501 and Class 1 circuits per NEC Article 725 for Type TC cables
- Industrial control, lighting and signaling circuits
- Primary installations in cable trays, raceways or outdoor applications where supported by a messenger wire

Compliances:

- IEEE 383 (70,000 BTU/hr)
- OSHA acceptable
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- NEC Type THHN/THWN conductors
- UL Subject 1277 (70,000 BTU/hr)
- UL Type TC - 600V

Features:

- Meets cold bend test at -25°C
- Offer the smallest cable O.D.s available for suitable applications
- Provide long service life
- Provides good oil and chemical resistance
- Provides outstanding sunlight, cold bend and cold impact resistance
- Rated at 90°C dry, 75°C wet

Packaging:

- Material cut to length and shipped out on non-returnable wood reels

Technical Specifications

[Reference Standards](#)

[2002 NEC Chapter 3 Article Conversion Chart](#)

[Recommended Handling & Storage Practices](#)

[Voltage Drop](#)

[AC Resistance & Inductive Reactance](#)

[Cable Installation](#)

[Common Color Sequence](#)

[Cable Pre-Installation](#)

[Metric Conversion](#)

[Glossary](#)

[Emergency Overload Current](#)

[Conductors for General Wiring](#)

[Short Circuit Current](#)

[Jacket & Insulation Materials](#)

[Conductor Reference Table](#)

[Formula - Copper Shield & Bonding \(Grounding\) Conductors](#)

[ICEA Ampacities](#)

[Cable Testing](#)

[NEC & CSA Designations](#)

[CSA Technical Section](#)

[Checklist for Specifications](#)

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