

APPLICATION:

General purpose cable for use in primary power and feeder circuits in a broad range of commercial and industrial applications. Approved for installation indoors or outdoors aerially, in conduits, ducts, cable trays, or direct burial in circuits not exceeding 600 volts. May be used in NEC Class I and II, Division 2 hazardous locations. UL approved for use in continuous operation at 90°C in wet and dry locations, 105°C for short circuit conditions.

CONDUCTORS:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8

INSULATION:

Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire

INSULATION JACKET:

Flame-retardant PVC per UL Standard 83 for Type THHN or THWN wire

GROUNDING CONDUCTOR:

Soft bare annealed copper per ASTM B-3, Class B stranding per ASTM B-8 sized in accordance with UL Standard 1277

JACKET:

Sunlight-resistant PVC per UL Standard 1277. Includes an integrated nylon ripcord for easy stripping and jacket removal.

COLOR CODE:

ICEA Method 1 (Table E-2)

FLAME TEST:

IEEE 1202/FT4 70,000 BTU/hour flame test

ADDITIONAL STANDARDS:

- UL Type TC per Article 336 of the NEC
- UL Type TC-ER Rated for Exposed Run
- UL 1277 - JP
- Cold Temperature Rated at -40°C
- Cold Bend -25°C



DISTRIBUTOR WIRE & CABLE

VNTC 18 AWG-10 AWG

| DWC Part No. | No. of Strands | Insulation Thickness | | Jacket Thickness | | Overall Diameter (approx.) | | Copper Weight (lbs/1000ft) | Approx. Weight (lbs/1000ft) | Bending Radius (min) | | Max. Pull Tension (lbs) |
|--------------|----------------|----------------------|-------|------------------|-------|----------------------------|-------|----------------------------|-----------------------------|----------------------|------|-------------------------|
| | | mm | inch | mm | inch | mm | inch | | | mm | inch | |
| 1803VNTC | 26 | 0.38 | 0.015 | 1.14 | 0.045 | 7.30 | 0.287 | 14.92 | 53.43 | 43.8 | 1.72 | 86 |
| 1804VNTC | 26 | 0.38 | 0.015 | 1.14 | 0.045 | 8.00 | 0.315 | 19.89 | 64.40 | 48 | 1.89 | 115 |
| 1805VNTC | 26 | 0.38 | 0.015 | 1.14 | 0.045 | 8.60 | 0.339 | 24.93 | 69.88 | 51.6 | 2.03 | 143 |
| 1806VNTC | 26 | 0.38 | 0.015 | 1.14 | 0.045 | 9.30 | 0.366 | 29.94 | 77.51 | 55.8 | 2.20 | 172 |
| 1807VNTC | 26 | 0.38 | 0.015 | 1.14 | 0.045 | 9.35 | 0.368 | 34.94 | 88.10 | 56.1 | 2.21 | 201 |
| 1809VNTC | 26 | 0.38 | 0.015 | 1.14 | 0.045 | 11.00 | 0.433 | 45.02 | 109.52 | 66 | 2.60 | 258 |
| 1812VNTC | 26 | 0.38 | 0.015 | 1.52 | 0.060 | 12.00 | 0.472 | 60.07 | 137.84 | 72 | 2.83 | 344 |
| 1815VNTC | 26 | 0.38 | 0.015 | 1.52 | 0.060 | 14.00 | 0.551 | 75.13 | 164.72 | 84 | 3.31 | 430 |
| 1819VNTC | 26 | 0.38 | 0.015 | 1.52 | 0.060 | 14.50 | 0.571 | 95.29 | 218.03 | 87 | 3.43 | 544 |
| 1825VNTC | 26 | 0.38 | 0.015 | 1.52 | 0.060 | 17.00 | 0.669 | 125.46 | 276.81 | 102 | 4.02 | 716 |
| 1837VNTC | 26 | 0.38 | 0.015 | 1.52 | 0.060 | 20.00 | 0.787 | 185.87 | 381.70 | 120 | 4.72 | 1,060 |
| 1603VNTC | 41 | 0.38 | 0.015 | 1.14 | 0.045 | 8.10 | 0.319 | 23.79 | 62.56 | 48.6 | 1.91 | 137 |
| 1604VNTC | 41 | 0.38 | 0.015 | 1.14 | 0.045 | 8.60 | 0.339 | 31.78 | 76.60 | 51.6 | 2.03 | 182 |
| 1605VNTC | 41 | 0.38 | 0.015 | 1.14 | 0.045 | 9.50 | 0.374 | 39.85 | 91.04 | 57 | 2.24 | 228 |
| 1606VNTC | 41 | 0.38 | 0.015 | 1.14 | 0.045 | 10.30 | 0.406 | 47.84 | 105.54 | 61.8 | 2.43 | 273 |
| 1607VNTC | 41 | 0.38 | 0.015 | 1.14 | 0.045 | 10.50 | 0.413 | 55.84 | 116.67 | 63 | 2.48 | 319 |
| 1609VNTC | 41 | 0.38 | 0.015 | 1.14 | 0.045 | 12.50 | 0.492 | 71.90 | 145.92 | 75 | 2.95 | 410 |
| 1612VNTC | 41 | 0.38 | 0.015 | 1.52 | 0.060 | 13.00 | 0.512 | 96.02 | 185.58 | 78 | 3.07 | 547 |
| 1615VNTC | 41 | 0.38 | 0.015 | 1.52 | 0.060 | 15.50 | 0.610 | 112.05 | 211.01 | 93 | 3.66 | 683 |
| 1616VNTC | 41 | 0.38 | 0.015 | 1.52 | 0.060 | 15.80 | 0.622 | 128.08 | 255.55 | 94.8 | 3.73 | 729 |
| 1619VNTC | 41 | 0.38 | 0.015 | 1.52 | 0.060 | 16.50 | 0.650 | 152.27 | 293.50 | 99 | 3.90 | 866 |
| 1625VNTC | 41 | 0.38 | 0.015 | 1.52 | 0.060 | 18.50 | 0.728 | 200.58 | 375.26 | 111 | 4.37 | 1,139 |
| 1637VNTC | 41 | 0.38 | 0.015 | 2.03 | 0.080 | 23.00 | 0.906 | 297.08 | 524.10 | 138 | 5.43 | 137 |
| 1650VNTC | 41 | 0.38 | 0.015 | 2.03 | 0.080 | 25.00 | 0.984 | 401.18 | 726.37 | 150 | 5.91 | 2,278 |
| 1403VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 9.00 | 0.354 | 37.16 | 82.79 | 54 | 2.13 | 217 |
| 1404VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 9.30 | 0.366 | 49.59 | 102.71 | 55.8 | 2.20 | 290 |
| 1405VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 10.00 | 0.394 | 62.22 | 123.20 | 60 | 2.36 | 362 |
| 1406VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 11.00 | 0.433 | 74.12 | 142.91 | 66 | 2.60 | 435 |
| 1407VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 11.50 | 0.453 | 87.22 | 160.33 | 69 | 2.72 | 507 |
| 1409VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 14.00 | 0.551 | 112.35 | 201.71 | 84 | 3.31 | 652 |
| 1410VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 14.50 | 0.571 | 127.00 | 244.60 | 87 | 3.43 | 724 |
| 1412VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 15.00 | 0.591 | 150.05 | 278.47 | 90 | 3.54 | 869 |
| 1415VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 16.50 | 0.650 | 189.16 | 335.80 | 99 | 3.90 | 1,087 |
| 1416VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 16.80 | 0.661 | 203.47 | 357.59 | 100.8 | 3.97 | 1,159 |

Questions? Contact Your Account Manager Today!

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VNTC 18 AWG-10 AWG

| DWC Part No. | No. of Strands | Insulation Thickness | | Jacket Thickness | | Overall Diameter (approx.) | | Copper Weight (lbs/1000ft) | Approx. Weight (lbs/1000ft) | Bending Radius (min) | | Max. Pull Tension (lbs) |
|--------------|----------------|----------------------|-------|------------------|-------|----------------------------|-------|----------------------------|-----------------------------|----------------------|------|-------------------------|
| | | mm | inch | mm | inch | mm | inch | | | mm | inch | |
| 1419VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 18.50 | 0.728 | 241.84 | 413.41 | 111 | 4.37 | 1,377 |
| 1425VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 21.00 | 0.827 | 318.51 | 531.74 | 126 | 4.96 | 1,811 |
| 1437VNTC | 7 | 0.38 | 0.015 | 2.03 | 0.080 | 24.50 | 0.965 | 471.86 | 790.89 | 147 | 5.79 | 2,681 |
| 1450VNTC | 7 | 0.38 | 0.015 | 2.03 | 0.080 | 27.50 | 1.083 | 637.04 | 1,034.22 | 165 | 6.50 | 3,622 |
| 1203VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 9.50 | 0.374 | 59.27 | 112.95 | 57 | 2.24 | 346 |
| 1204VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 11.00 | 0.433 | 79.09 | 141.98 | 66 | 2.60 | 461 |
| 1205VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 11.50 | 0.453 | 99.18 | 171.71 | 69 | 2.72 | 576 |
| 1207VNTC | 7 | 0.38 | 0.015 | 1.14 | 0.045 | 12.50 | 0.492 | 139.03 | 226.66 | 75 | 2.95 | 806 |
| 1209VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 15.50 | 0.610 | 179.08 | 286.65 | 93 | 3.66 | 1,037 |
| 1212VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 17.00 | 0.669 | 239.09 | 370.79 | 102 | 4.02 | 1,382 |
| 1215VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 18.50 | 0.728 | 302.92 | 456.44 | 111 | 4.37 | 1,728 |
| 1219VNTC | 7 | 0.38 | 0.015 | 1.52 | 0.060 | 20.00 | 0.787 | 384.03 | 565.60 | 120 | 4.72 | 2,189 |
| 1225VNTC | 7 | 0.38 | 0.015 | 2.03 | 0.080 | 24.50 | 0.965 | 505.79 | 734.39 | 147 | 5.79 | 2,880 |
| 1237VNTC | 7 | 0.38 | 0.015 | 2.03 | 0.080 | 27.50 | 1.083 | 749.31 | 1,056.74 | 165 | 6.50 | 4,262 |
| 1003VNTC | 7 | 0.51 | 0.020 | 1.14 | 0.045 | 11.50 | 0.453 | 95.02 | 167.88 | 69 | 2.72 | 549 |
| 1004VNTC | 7 | 0.51 | 0.020 | 1.14 | 0.045 | 13.00 | 0.512 | 126.73 | 213.28 | 78 | 3.07 | 733 |
| 1005VNTC | 7 | 0.51 | 0.020 | 1.52 | 0.060 | 14.50 | 0.571 | 158.99 | 259.84 | 87 | 3.43 | 916 |
| 1007VNTC | 7 | 0.51 | 0.020 | 1.52 | 0.060 | 15.50 | 0.610 | 222.89 | 346.90 | 93 | 3.66 | 1,282 |
| 1009VNTC | 7 | 0.51 | 0.020 | 1.52 | 0.060 | 19.00 | 0.748 | 288.81 | 442.13 | 114 | 4.49 | 1,648 |
| 1012VNTC | 7 | 0.51 | 0.020 | 1.52 | 0.060 | 21.00 | 0.827 | 385.51 | 575.46 | 126 | 4.96 | 2,198 |
| 1015VNTC | 7 | 0.51 | 0.020 | 1.52 | 0.060 | 24.00 | 0.945 | 482.34 | 706.10 | 144 | 5.67 | 2,747 |
| 1019VNTC | 7 | 0.51 | 0.020 | 1.52 | 0.060 | 25.50 | 1.004 | 611.56 | 878.81 | 153 | 6.02 | 3,480 |

***Maximum Sidewall Pressure - 300lbs

Tolerance - 20.0mm or less of Overall Diameter: ±10% / 20.1 mm or more of Overall Diameter: ±5%

Product details and specifications are subject to manufacturing variations and accepted industry tolerances. Please contact your DWC Account Manager with questions or to confirm specific product requirements.

Questions? Contact Your Account Manager Today!

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