

VNTC®

PVC/Nylon/PVC, Control, Shielded
600 V, UL Type TC-ER¹, Overall Shielded—E-2 Color Code

Product Construction:

Conductor:

- 18 AWG thru 10 AWG fully annealed stranded bare copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with Polyamide (nylon)
- Color-coded per ICEA Method 1, Table E-2 plus alpha-numeric printed numbers (does not include white or green)

Shield:

Overall shielded multi-conductor

- Overall shield is Flexfoil® aluminum/polymer, in contact with stranded tinned copper drain wire

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Applications:

- In free air, raceways and direct burial
- In wet or dry locations
- Approved for direct burial
- Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC for 3 or more conductors

Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provides outstanding sunlight, cold bend and cold impact resistance
- Offers the smallest cable O.D. available for suitable applications
- Provides long service life
- Provides good oil and chemical resistance
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

Industry Compliances:

- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- UL 66 NEC Type TFN conductors (16 & 18 AWG)
- UL 83 NEC Type THHN/THWN conductors (14 through 10 AWG)
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

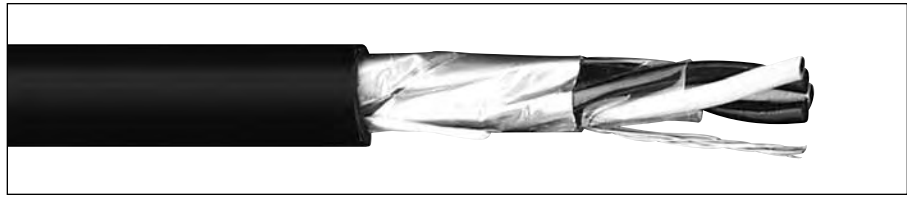
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

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



| CATALOG NUMBER | NO. OF COND. | COND. SIZE (AWG) | COND. STRAND | MINIMUM AVG. INSULATION THICKNESS | | MINIMUM AVG. JACKET THICKNESS | | NOMINAL CABLE O.D. | | COPPER WEIGHT | | NET WEIGHT | |
|----------------|--------------|------------------|--------------|-----------------------------------|----|-------------------------------|----|--------------------|----|---------------|-------|-------------|-------|
| | | | | INCHES | mm | INCHES | mm | INCHES | mm | LBS/1000 FT | kg/km | LBS/1000 FT | kg/km |

**OVERALL SHIELD
18 AWG CONDUCTORS**

| | | | | | | | | | | | | | |
|---------|---|----|----|-------|------|-------|------|-------|------|----|----|----|-----|
| 261130 | 2 | 18 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.280 | 7.11 | 12 | 19 | 40 | 60 |
| 261140 | 3 | 18 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.290 | 7.37 | 18 | 26 | 49 | 73 |
| 261150 | 4 | 18 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.310 | 7.87 | 23 | 34 | 58 | 86 |
| 260000* | 5 | 18 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.340 | 8.64 | 28 | 41 | 70 | 104 |
| 259980* | 7 | 18 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.370 | 9.40 | 39 | 58 | 89 | 132 |

**OVERALL SHIELD
16 AWG CONDUCTORS**

| | | | | | | | | | | | | | |
|---------|----|----|----|-------|------|-------|------|-------|-------|-----|-----|-----|-----|
| 247620 | 2 | 16 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.300 | 7.62 | 20 | 29 | 52 | 77 |
| 261160 | 3 | 16 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.320 | 8.13 | 28 | 41 | 63 | 94 |
| 243710 | 4 | 16 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.350 | 8.89 | 36 | 53 | 77 | 115 |
| 266580* | 5 | 16 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.370 | 9.40 | 44 | 65 | 91 | 135 |
| 243740* | 7 | 16 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.410 | 10.41 | 60 | 89 | 119 | 177 |
| 243560* | 9 | 16 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.470 | 11.97 | 76 | 113 | 150 | 223 |
| 229600* | 12 | 16 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.510 | 12.95 | 100 | 149 | 185 | 275 |

**OVERALL SHIELD
14 AWG CONDUCTORS**

| | | | | | | | | | | | | | |
|---------|---|----|----|-------|------|-------|------|-------|-------|----|-----|-----|-----|
| 243660 | 2 | 14 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.330 | 8.38 | 31 | 46 | 67 | 100 |
| 243720 | 3 | 14 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.350 | 8.89 | 44 | 65 | 84 | 125 |
| 243650 | 4 | 14 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.380 | 9.65 | 57 | 85 | 104 | 155 |
| 243570* | 5 | 14 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.400 | 10.16 | 70 | 104 | 123 | 183 |
| 243580 | 7 | 14 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.440 | 11.18 | 96 | 142 | 161 | 240 |

**OVERALL SHIELD
12 AWG CONDUCTORS**

| | | | | | | | | | | | | | |
|---------|---|----|----|-------|------|-------|------|-------|-------|----|-----|-----|-----|
| 243670 | 2 | 12 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.370 | 9.40 | 43 | 64 | 83 | 124 |
| 243810* | 3 | 12 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.390 | 9.91 | 64 | 95 | 111 | 165 |
| 243840 | 4 | 12 | 7W | 0.020 | 0.51 | 0.045 | 1.14 | 0.420 | 10.67 | 85 | 126 | 139 | 207 |

**OVERALL SHIELD
10 AWG CONDUCTORS**

| | | | | | | | | | | | | | |
|---------|---|----|----|-------|------|-------|------|-------|-------|-----|-----|-----|-----|
| 243770* | 2 | 10 | 7W | 0.026 | 0.66 | 0.045 | 1.14 | 0.430 | 10.92 | 68 | 101 | 119 | 177 |
| 243820* | 3 | 10 | 7W | 0.026 | 0.66 | 0.045 | 1.14 | 0.460 | 11.68 | 101 | 150 | 162 | 241 |
| 243690* | 4 | 10 | 7W | 0.026 | 0.66 | 0.045 | 1.14 | 0.500 | 12.70 | 133 | 198 | 205 | 305 |

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

¹ Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.

VNTC®

PVC/Nylon/PVC, Low-Voltage Power, Unshielded
600 V, UL Type TC-ER¹ – Method 4 Color Code



Compliances:

Industry Compliances:

- NEC Type THHN/THWN conductors
- UL 1277 Type TC-ER, UL File # E57179
- UL 1581
- ICEA S-95-658/NEMA WC70

Flame Test Compliances:

- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- CSA FT4

Other Compliances:

- EPA 40 CFR, Part 261 for leachable lead content per TCLP
- OSHA Acceptable
- RoHS Compliant

Packaging:

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

Product Construction:

Conductor:

- 14 AWG thru 500 kcmil bare, annealed copper per ASTM B3
- Class B stranding per ASTM B8

Insulation:

- Flame-retardant Polyvinyl Chloride (PVC) with Polyimide (nylon)
- Color-coded per ICEA Method 4; individual conductors colored black with conductor number surface printed in contrasting ink

Ground:

- Uninsulated bare annealed copper per ASTM B3

Jacket:

- Lead-free, flame-retardant, sunlight-resistant Polyvinyl Chloride (PVC)

Applications:

- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I, Division 2 industrial hazardous locations per NEC
- Permitted for Exposed Run (ER) use in accordance with NEC

Features:

- Rated at 90°C dry, 75°C wet
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Provides outstanding sunlight, cold bend and cold impact resistance
- Offers the smallest cable O.D. available for suitable applications
- Provides good oil and chemical resistance
- Provides a long service life
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

| CATALOG NUMBER | NO. OF COND. | COND. SIZE (AWG/kcmil) | COND. STRAND | GROUND WIRE SIZE (AWG) | MINIMUM AVG. INSULATION THICKNESS | | MINIMUM AVG. JACKET THICKNESS | | NOMINAL CABLE O.D. | | COPPER WEIGHT | | NET WEIGHT | |
|--------------------------------------|--------------|------------------------|--------------|------------------------|-----------------------------------|------|-------------------------------|------|--------------------|-------|---------------|-------|-------------|-------|
| | | | | | INCHES | mm | INCHES | mm | INCHES | mm | LBS/1000 FT | kg/km | LBS/1000 FT | kg/km |
| 14 AWG - 500 kcmil CONDUCTORS | | | | | | | | | | | | | | |
| 383890* | 3 | 14 | 7W | 14 | 0.020 | 0.51 | 0.045 | 1.14 | 0.345 | 8.76 | 52 | 77 | 100 | 149 |
| 234250 | 3 | 12 | 7W | 12 | 0.020 | 0.51 | 0.045 | 1.14 | 0.385 | 9.78 | 86 | 128 | 138 | 205 |
| 234260 | 3 | 10 | 7W | 10 | 0.020 | 0.51 | 0.045 | 1.14 | 0.450 | 11.43 | 135 | 200 | 209 | 311 |
| 386700** | 3 | 10 | 7W | 10 | 0.020 | 0.51 | 0.045 | 1.14 | 0.450 | 11.43 | 135 | 200 | 209 | 311 |
| 236370 | 3 | 8 | 7W | 10 | 0.036 | 0.91 | 0.060 | 1.52 | 0.600 | 15.24 | 189 | 281 | 308 | 458 |
| 236380 | 4 | 8 | 7W | 10 | 0.036 | 0.91 | 0.060 | 1.52 | 0.655 | 16.64 | 241 | 359 | 373 | 555 |
| 226410 | 3 | 6 | 7W | 8 | 0.036 | 0.91 | 0.060 | 1.52 | 0.690 | 17.53 | 300 | 446 | 434 | 646 |
| 231980 | 4 | 6 | 7W | 8 | 0.036 | 0.91 | 0.060 | 1.52 | 0.760 | 19.30 | 383 | 570 | 533 | 793 |
| 236400 | 3 | 4 | 7W | 8 | 0.048 | 1.22 | 0.080 | 2.03 | 0.875 | 22.28 | 446 | 664 | 650 | 967 |
| 236410* | 4 | 4 | 7W | 8 | 0.048 | 1.22 | 0.080 | 2.03 | 0.970 | 24.64 | 578 | 860 | 824 | 1226 |
| 236420 | 3 | 2 | 7W | 6 | 0.048 | 1.22 | 0.080 | 2.03 | 1.000 | 25.40 | 710 | 1057 | 964 | 1435 |
| 236430* | 4 | 2 | 7W | 6 | 0.048 | 1.22 | 0.080 | 2.03 | 1.100 | 27.94 | 919 | 1368 | 1227 | 1826 |
| 236440 | 3 | 1/0 | 19W | 6 | 0.059 | 1.50 | 0.080 | 2.03 | 1.225 | 31.12 | 1080 | 1607 | 1447 | 2153 |
| 219580* | 4 | 1/0 | 19W | 6 | 0.059 | 1.50 | 0.080 | 2.03 | 1.360 | 34.54 | 1413 | 2103 | 1830 | 2723 |
| 243760 | 3 | 2/0 | 19W | 6 | 0.059 | 1.50 | 0.080 | 2.03 | 1.320 | 33.53 | 1340 | 1994 | 1754 | 2610 |
| 219610* | 4 | 2/0 | 19W | 6 | 0.059 | 1.50 | 0.080 | 2.03 | 1.455 | 36.96 | 1760 | 2619 | 2252 | 3351 |
| 221560 | 3 | 4/0 | 19W | 4 | 0.059 | 1.50 | 0.080 | 2.03 | 1.545 | 39.24 | 2130 | 3170 | 2630 | 3914 |
| 329240* | 4 | 4/0 | 19W | 4 | 0.059 | 1.50 | 0.110 | 2.79 | 1.770 | 44.96 | 2796 | 4161 | 3502 | 5212 |
| 222490 | 3 | 250 | 37W | 4 | 0.070 | 1.78 | 0.110 | 2.79 | 1.740 | 44.20 | 2494 | 3696 | 3177 | 4728 |
| 297050* | 4 | 250 | 37W | 4 | 0.070 | 1.78 | 0.110 | 2.79 | 1.945 | 49.40 | 3281 | 4883 | 4107 | 6112 |
| 226430 | 3 | 350 | 37W | 3 | 0.070 | 1.78 | 0.110 | 2.79 | 1.990 | 50.55 | 3474 | 5170 | 4263 | 6344 |
| 297060* | 4 | 350 | 37W | 3 | 0.070 | 1.78 | 0.110 | 2.79 | 2.190 | 55.63 | 4586 | 6825 | 5585 | 8312 |
| 219630 | 3 | 500 | 37W | 2 | 0.070 | 1.78 | 0.110 | 2.79 | 2.270 | 57.66 | 4934 | 7343 | 5890 | 8765 |
| 222510* | 4 | 500 | 37W | 2 | 0.070 | 1.78 | 0.110 | 2.79 | 2.505 | 63.63 | 6509 | 9687 | 7694 | 11450 |

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

** E-2 Color Code.

¹ Approved as TYPE TC-ER for Exposed Run applications as defined by NEC.



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