

CVTC®

XLPE/PVC, Control, Unshielded
600 V, UL Type TC-ER¹—E-2 Color Code



Product Construction:

Conductor:

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

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Color-coded per ICEA Method 1, Table E-2 (does not include white or green)

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 wet or dry
- Ripcord applied to all cables with jacket thickness of 60 mils or less
- Excellent electrical properties
- Abrasion- and chemical-resistant
- Sunlight- and weather-resistant
- Meets cold bend test at -25°C
- Meets the crush and impact requirements of Type MC cable

Compliances:

Industry Compliances:

- UL 44 Type XHHW-2
- UL 1277 Type TC-ER for 3 or more conductors, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57

Flame Test Compliances:

- UL 1581/UL 2556 VW-1
- UL 1685 Vertical Flame Test
- IEEE 383
- IEEE 1202
- ICEA T-29-520
- 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 |

14 AWG CONDUCTORS

| | | | | | | | | | | | | | |
|---------|--------|----|----|-------|------|-------|------|-------------|-------------|-----|-----|-----|------|
| 770460 | 2 Flat | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | .235 x .370 | 5.97 x 9.40 | 25 | 37 | 62 | 92 |
| 771080* | 2 | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.365 | 9.27 | 25 | 37 | 73 | 109 |
| 770530 | 3 | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.390 | 9.91 | 40 | 59 | 93 | 138 |
| 770610 | 4 | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.425 | 10.80 | 53 | 79 | 116 | 173 |
| 770420 | 5 | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.465 | 11.81 | 66 | 99 | 140 | 208 |
| 770560 | 7 | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.590 | 14.99 | 93 | 138 | 176 | 262 |
| 770540 | 9 | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.620 | 15.75 | 119 | 177 | 245 | 365 |
| 770470 | 12 | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.680 | 17.27 | 159 | 237 | 302 | 449 |
| 770550 | 19 | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.800 | 20.32 | 252 | 375 | 460 | 685 |
| 770450* | 25 | 14 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 0.985 | 25.02 | 323 | 481 | 641 | 954 |
| 295320* | 30 | 14 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.050 | 26.67 | 387 | 571 | 740 | 1101 |
| 770430* | 37 | 14 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.130 | 28.70 | 490 | 729 | 888 | 1322 |

12 AWG CONDUCTORS

| | | | | | | | | | | | | | |
|---------|---------|----|----|-------|------|-------|------|-------------|--------------|-----|------|------|------|
| 770480 | 2 Flat | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | .245 x .400 | 6.22 x 10.16 | 40 | 60 | 86 | 128 |
| 346920* | 2 | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.410 | 10.41 | 41 | 61 | 96 | 143 |
| 365720 | 3+ Grnd | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.435 | 11.05 | 86 | 128 | 143 | 213 |
| 770570 | 3 | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.435 | 11.05 | 65 | 96 | 125 | 186 |
| 770490 | 4 | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.475 | 12.07 | 86 | 128 | 157 | 234 |
| 770410 | 5 | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.515 | 13.08 | 108 | 160 | 191 | 284 |
| 770950 | 7 | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.595 | 15.11 | 150 | 224 | 260 | 387 |
| 770580 | 9 | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.695 | 17.65 | 193 | 288 | 340 | 506 |
| 770520 | 12 | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.780 | 19.81 | 258 | 385 | 429 | 638 |
| 770700* | 19 | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 0.930 | 23.62 | 403 | 600 | 681 | 1013 |
| 347110* | 25 | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.095 | 27.81 | 515 | 767 | 885 | 1317 |
| 347120* | 30 | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.150 | 29.21 | 618 | 920 | 1005 | 1496 |
| 347130* | 37 | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.240 | 31.50 | 741 | 1103 | 1185 | 1764 |

10 AWG CONDUCTORS

| | | | | | | | | | | | | | |
|---------|---------|----|----|-------|------|-------|------|-------------|--------------|-----|-----|-----|-----|
| 770590 | 2 Flat | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | .290 x .480 | 7.37 x 12.19 | 66 | 98 | 114 | 170 |
| 346930* | 2 | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.455 | 11.56 | 67 | 100 | 130 | 193 |
| 770670 | 3+ Grnd | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.485 | 12.32 | 135 | 200 | 201 | 299 |
| 770600 | 3 | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.485 | 12.32 | 101 | 150 | 173 | 257 |
| 770370 | 4 | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.515 | 13.08 | 135 | 200 | 236 | 351 |
| 770380 | 5 | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.615 | 15.62 | 167 | 249 | 287 | 427 |
| 770900 | 7 | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.670 | 17.02 | 234 | 349 | 371 | 552 |
| 770390* | 9 | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.785 | 19.94 | 295 | 440 | 479 | 713 |
| 770400 | 12 | 10 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 0.895 | 22.73 | 402 | 598 | 644 | 958 |

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.

