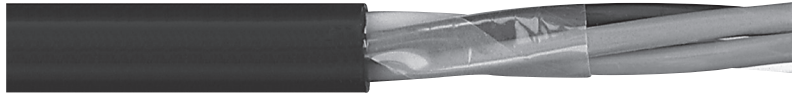


**CVTC®**XLPE/PVC, Control, Unshielded 600 V or 1000 V  
UL Type TC-ER<sup>1</sup>—E-2 Color Code

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

**14 AWG CONDUCTORS**

|         |        |    |    |       |      |       |      |                |                |     |     |     |      |
|---------|--------|----|----|-------|------|-------|------|----------------|----------------|-----|-----|-----|------|
| 770460  | 2 Flat | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | .225 x<br>.360 | 5.72 x<br>9.14 | 25  | 38  | 60  | 89   |
| 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 | 0.380          | 9.65           | 39  | 58  | 87  | 129  |
| 770610  | 4      | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.415          | 10.54          | 52  | 77  | 109 | 162  |
| 770420  | 5      | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.455          | 11.56          | 65  | 96  | 131 | 195  |
| 770560  | 7      | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.495          | 12.57          | 91  | 135 | 172 | 255  |
| 770540  | 9      | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.605          | 15.37          | 116 | 173 | 241 | 358  |
| 770470  | 12     | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.685          | 17.40          | 155 | 231 | 303 | 451  |
| 770550  | 19     | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.795          | 20.19          | 246 | 366 | 449 | 668  |
| 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<br>.395 | 6.22 x<br>10.03 | 40  | 60   | 79   | 118  |
| 346920* | 2                    | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.410          | 10.41           | 41  | 61   | 96   | 143  |
| 365720  | 3+ Grnd <sup>2</sup> | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.430          | 10.92           | 82  | 122  | 137  | 204  |
| 770570  | 3                    | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.420          | 10.67           | 62  | 92   | 116  | 173  |
| 770490  | 4                    | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.460          | 11.68           | 82  | 122  | 147  | 219  |
| 770410  | 5                    | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.500          | 12.70           | 103 | 153  | 180  | 268  |
| 770950  | 7                    | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.585          | 14.86           | 144 | 214  | 258  | 384  |
| 770580  | 9                    | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.680          | 17.27           | 185 | 275  | 327  | 487  |
| 770520  | 12                   | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.755          | 19.18           | 247 | 367  | 413  | 614  |
| 770700* | 19                   | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 0.930          | 23.62           | 391 | 581  | 662  | 986  |
| 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 | .270 x<br>.445 | 6.86 x<br>11.30 | 64  | 95  | 108 | 160 |
| 346930* | 2                    | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.455          | 11.56           | 67  | 100 | 130 | 193 |
| 770670  | 3+ Grnd <sup>2</sup> | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.490          | 12.45           | 131 | 195 | 193 | 287 |
| 770600  | 3                    | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.470          | 11.94           | 98  | 146 | 159 | 237 |
| 770370  | 4                    | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.550          | 13.97           | 131 | 195 | 220 | 327 |
| 770380  | 5                    | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.605          | 15.37           | 164 | 243 | 272 | 404 |
| 770900  | 7                    | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.650          | 16.51           | 229 | 341 | 353 | 525 |
| 770390* | 9                    | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.765          | 19.43           | 294 | 438 | 460 | 685 |
| 770400  | 12                   | 10 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 0.895          | 22.73           | 392 | 584 | 615 | 914 |

Dimensions and weights are nominal; subject to industry tolerances.

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

<sup>1</sup> Approved as TYPE TC-ER for Exposed Run applications of 3 or more conductors as defined by NEC.<sup>2</sup> Uninsulated tinned copper ground supplied where noted.**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, cable tray, 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 for 3 or more conductors

**Features:**

- Rated at 90°C wet or dry
- Ripcord applied to all cables with jacket of 60 mils or less
- Meets cold bend test at -25°C
- Type ER versions meets crush and impact requirements of Type MC cables.
- Sunlight- and weather-resistant
- Excellent flame resistance
- Excellent physical, thermal and electrical properties
- Excellent moisture resistance
- Good resistance to abrasion and heat deformation
- Provides good oil and chemical resistance

**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
- 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

RoHS Compliant  
Directive EU 2015 / 863