

# GenFree®

## XLPE/LSZH, Control

### 600 V, UL Type TC-LS-ER<sup>1</sup>—E-2 Color Code

**Product Construction:**

**Conductor:**

- 14 AWG thru 10 AWG stranded tinned copper per ASTM B33
- Class B stranding per ASTM B8

**Insulation:**

- Lead-free, flame-retardant, low-smoke 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, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

**Applications:**

- In free air, raceways, aerial 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 the 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 physical and electrical properties
- Excellent moisture resistance
- Excellent resistance to compression and impact
- Chemical-resistant
- Low coefficient of friction for easy pulling
- Sunlight- and weather-resistant
- Meets cold bend test at -30°C
- Low-Smoke, Zero-Halogen jacket is environmentally safe
- Low-Smoke, Zero-Halogen jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire
- Meets the crush and impact requirements of Type MC cable for 3 or more conductors

**Compliances:**

**Industry Compliances:**

- UL 44 Type XHHW-2
- UL 1277 Type TC-LS-ER, UL File # E57179
- UL 1581
- ICEA S-73-532/NEMA WC57
- ICEA T-33-655

**Flame Test Compliances:**

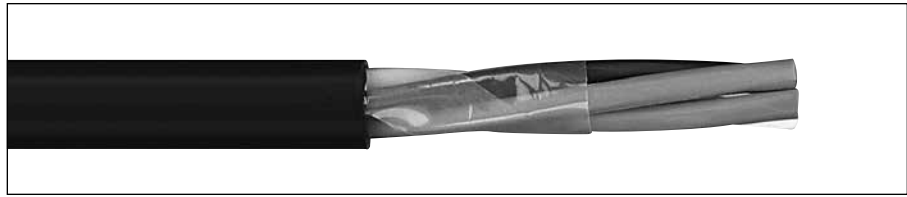
- UL 1581/UL 2556
- UL 1685 Vertical Flame Test
- IEEE 1202

**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**

|         |        |    |    |       |      |       |      |             |             |     |     |     |      |
|---------|--------|----|----|-------|------|-------|------|-------------|-------------|-----|-----|-----|------|
| 394280  | 2 Flat | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | .365 x .230 | 9.30 x 5.80 | 26  | 38  | 61  | 91   |
| 394290* | 2      | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.370       | 9.40        | 26  | 39  | 71  | 106  |
| 394300  | 3      | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.390       | 9.91        | 39  | 59  | 92  | 137  |
| 394310* | 4      | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.425       | 10.80       | 53  | 78  | 115 | 171  |
| 394320  | 5      | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.465       | 11.81       | 66  | 98  | 139 | 207  |
| 394330  | 7      | 14 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.505       | 12.83       | 92  | 137 | 173 | 257  |
| 394340* | 9      | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.620       | 15.75       | 118 | 176 | 240 | 357  |
| 394350* | 12     | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.700       | 17.78       | 158 | 235 | 301 | 448  |
| 394360* | 19     | 14 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.815       | 20.70       | 250 | 372 | 468 | 696  |
| 394370* | 25     | 14 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 0.935       | 23.75       | 323 | 481 | 624 | 929  |
| 394380* | 30     | 14 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.030       | 26.16       | 387 | 576 | 747 | 1112 |
| 394390* | 37     | 14 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.110       | 28.19       | 466 | 694 | 875 | 1302 |

**12 AWG CONDUCTORS**

|                     |         |    |    |       |      |       |      |             |              |     |      |      |      |
|---------------------|---------|----|----|-------|------|-------|------|-------------|--------------|-----|------|------|------|
| 394400*             | 2 Flat  | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | .400 x .245 | 10.20 x 6.20 | 40  | 60   | 82   | 122  |
| 394410*             | 2       | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.410       | 10.41        | 41  | 61   | 94   | 140  |
| 394420 <sup>2</sup> | 3+ Grnd | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.435       | 11.05        | 85  | 127  | 148  | 220  |
| 394430              | 3       | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.435       | 11.05        | 64  | 95   | 124  | 185  |
| 394440*             | 4       | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.475       | 12.07        | 85  | 127  | 157  | 234  |
| 394450*             | 5       | 12 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.520       | 13.21        | 106 | 158  | 191  | 284  |
| 394460*             | 7       | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.595       | 15.11        | 149 | 221  | 268  | 399  |
| 394470*             | 9       | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.695       | 17.65        | 191 | 285  | 337  | 502  |
| 394480*             | 12      | 12 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.765       | 19.43        | 247 | 368  | 428  | 637  |
| 394490*             | 19      | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 0.940       | 23.88        | 391 | 582  | 688  | 1024 |
| 394500*             | 25      | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.095       | 27.81        | 515 | 767  | 854  | 1271 |
| 394510*             | 30      | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.150       | 29.21        | 618 | 920  | 1002 | 1491 |
| 394520*             | 37      | 12 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 1.240       | 31.50        | 762 | 1134 | 1240 | 1845 |

**10 AWG CONDUCTORS**

|                     |         |    |    |       |      |       |      |             |              |     |     |     |     |
|---------------------|---------|----|----|-------|------|-------|------|-------------|--------------|-----|-----|-----|-----|
| 394530*             | 2 Flat  | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | .445 x .270 | 11.30 x 6.80 | 64  | 95  | 113 | 168 |
| 394540*             | 2       | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.455       | 11.56        | 65  | 97  | 128 | 190 |
| 394550 <sup>2</sup> | 3+ Grnd | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.485       | 12.32        | 134 | 199 | 225 | 335 |
| 394560              | 3       | 10 | 7W | 0.030 | 0.76 | 0.045 | 1.14 | 0.485       | 12.32        | 100 | 150 | 172 | 256 |
| 394570              | 4       | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.560       | 14.22        | 134 | 199 | 234 | 348 |
| 394580*             | 5       | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.615       | 15.62        | 167 | 249 | 284 | 423 |
| 394590*             | 7       | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.670       | 17.02        | 234 | 349 | 381 | 567 |
| 394600*             | 9       | 10 | 7W | 0.030 | 0.76 | 0.060 | 1.52 | 0.760       | 19.30        | 295 | 440 | 464 | 691 |
| 394610*             | 12      | 10 | 7W | 0.030 | 0.76 | 0.080 | 2.03 | 0.905       | 22.99        | 402 | 598 | 651 | 696 |

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 -ER for Exposed Run applications of 3 or more conductors as defined by the NEC.

<sup>2</sup> This construction does not require an -ER mark.