ENGINEERING SPECIFICATIONS

Standards
Underwriters Laboratories Standards UL-83; UL-1581, UL-2556; ASTM Stranding Class B3; B8; B787; ASTM D-1248; RoHS Compliant; ARRA 2009 Section 1605 "Buy American" Compliant; APWA Uniform Color Code; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E-225933

CONSTRUCTION

Conductors
Solid or stranded soft uncoated copper conductors per ASTM-B3, ASTM-B8 and ASTM-B787

Insulation
High Molecular Weight Polyethylene (HMWPE)

APPLICATIONS
Listed for 30V or 600V. Primarily used in the detection of underground piping and other underground utility installations.

FEATURES
Available in sizes 14AWG through 8AWG. 30-volt styles have a 30 MIL insulation wall; 600-volt styles have a 45 MIL insulation wall. Solid or stranded uncoated copper conductors. Suitable for direct burial in wet or dry locations. High Molecular Weight Polyethylene (HMWPE) insulation has excellent moisture, chemical, oil, crush, and abrasion resistance. Rated 90°C wet or dry. Flexibility at Low Temperature Test. Flexibility at low temperatures of -40°C rating. Colors in accordance with the American Public Works Administration Uniform Color Code: yellow for gaseous materials; red for electrical lines; orange for communications; blue for potable water; green for sewers and drain lines. Other colors available upon request.

Print Legend:
30 VOLT STYLES: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE 30 MIL 30 VOLTS HMWPE (UL) DIRECT BURIAL.
YELLOW: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: GAS PIPELINE TRACER WIRE**
RED: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: ELECTRICAL POWER LINE TRACER WIRE**
ORANGE: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: COMMUNICATIONS CABLE TRACER WIRE**
BLUE: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: WATER MAIN TRACER WIRE**
GREEN: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 30 MIL 30 VOLTS (UL) DIR BUR **CAUTION: SEWER PIPELINE TRACER WIRE**

600 VOLT STYLES: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE 45 MIL 600 VOLTS HMWPE (UL) DIRECT BURIAL.
YELLOW: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: GAS PIPELINE TRACER WIRE**
RED: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: ELECTRICAL POWER LINE TRACER WIRE**
ORANGE: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: COMMUNICATIONS CABLE TRACER WIRE**
BLUE: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: WATER MAIN TRACER WIRE**
GREEN: ENCORE WIRE CORPORATION (SIZE) TRACER WIRE HMWPE 45 MIL 600 VOLTS (UL) DIR BUR **CAUTION: SEWER PIPELINE TRACER WIRE**

*Nominal Tensile Strength 3150 psi (Yield) 2350 psi (Break)
*Tensile Elongation (Break) 590%

The above data is approximate and subject to normal manufacturing tolerances.

### Wire Size (AWG) Table

<table>
<thead>
<tr>
<th>Wire Size (AWG)</th>
<th>Conductor Type</th>
<th>Insulation Thickness (in)</th>
<th>Outside Diameter (in)</th>
<th>Approximate Net Weight (lbs)</th>
<th>Standard Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>30V 600V 30V 600V 30V 600V</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Solid</td>
<td>0.030 0.045 0.123 0.153 15 18</td>
<td></td>
<td></td>
<td>2000’ carton (4x500), 2500’ Reels</td>
</tr>
<tr>
<td>12</td>
<td>Solid</td>
<td>0.030 0.045 0.142 0.172 24 28</td>
<td></td>
<td></td>
<td>1000’ carton (2x500), 2500’ Reels</td>
</tr>
<tr>
<td>10</td>
<td>Solid</td>
<td>0.030 0.045 0.161 0.191 36 39</td>
<td></td>
<td></td>
<td>500’, 2500’ Reels</td>
</tr>
<tr>
<td>8</td>
<td>Solid</td>
<td>0.030 0.045 0.189 0.219 72 78</td>
<td></td>
<td></td>
<td>500’, 1000’, 2500’, 5000’ Reels</td>
</tr>
<tr>
<td>14</td>
<td>Stranded</td>
<td>0.030 0.045 0.131 0.161 15 18</td>
<td></td>
<td></td>
<td>2000’ carton (4x500), 2500’ Reels</td>
</tr>
<tr>
<td>12</td>
<td>Stranded</td>
<td>0.030 0.045 0.149 0.179 24 28</td>
<td></td>
<td></td>
<td>1000’ carton (2x500), 2500’ Reels</td>
</tr>
<tr>
<td>10</td>
<td>Stranded</td>
<td>0.030 0.045 0.172 0.202 36 39</td>
<td></td>
<td></td>
<td>500’, 2500’ Reels</td>
</tr>
<tr>
<td>8</td>
<td>Stranded</td>
<td>0.030 0.045 0.202 0.247 72 78</td>
<td></td>
<td></td>
<td>500’, 1000’, 2500’, 5000’ Reels</td>
</tr>
</tbody>
</table>

*The above data is approximate and subject to normal manufacturing tolerances.*