**General Description:**
22 AWG stranded (7x30) tinned copper conductor, polypropylene insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded tinned copper drain wire.

**Physical Characteristics (Overall)**

<table>
<thead>
<tr>
<th>Conductor</th>
<th>AWG:</th>
</tr>
</thead>
<tbody>
<tr>
<td># Pairs</td>
<td>9</td>
</tr>
<tr>
<td>AWG</td>
<td>22</td>
</tr>
<tr>
<td>Stranding</td>
<td>7x30</td>
</tr>
<tr>
<td>Conductor Material</td>
<td>TC - Tinned Copper</td>
</tr>
<tr>
<td>Dia. (in.)</td>
<td>0.030</td>
</tr>
</tbody>
</table>

**Insulation**

<table>
<thead>
<tr>
<th>Insulation Material</th>
<th>Wall Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP - Polypropylene</td>
<td>0.011</td>
</tr>
</tbody>
</table>

**Inner Shield**

<table>
<thead>
<tr>
<th>Inner Shield Trade Name</th>
<th>Type</th>
<th>Inner Shield Material</th>
<th>Coverage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beldfoil® (Z-Fold®)</td>
<td>Tape</td>
<td>Aluminum Foil-Polyester Tape</td>
<td>100</td>
</tr>
</tbody>
</table>

**Inner Shield Drain Wire AWG:**

| AWG | 22 |

**Inner Shield Drain Wire Stranding:** Stranded

**Inner Shield Drain Wire Conductor Material:** TC - Tinned Copper

**Outer Shield**

<table>
<thead>
<tr>
<th>Outer Shield Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unshielded</td>
</tr>
</tbody>
</table>

**Outer Jacket**

<table>
<thead>
<tr>
<th>Outer Jacket Material</th>
<th>Nom. Wall Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC - Polyvinyl Chloride</td>
<td>0.034</td>
</tr>
</tbody>
</table>

**Overall Cable**

| Overall Nominal Diameter | 0.410 in. |

**Pair**

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black &amp; Red</td>
</tr>
<tr>
<td>2</td>
<td>Black &amp; White</td>
</tr>
<tr>
<td>3</td>
<td>Black &amp; Green</td>
</tr>
<tr>
<td>4</td>
<td>Black &amp; Blue</td>
</tr>
<tr>
<td>5</td>
<td>Black &amp; Yellow</td>
</tr>
<tr>
<td>6</td>
<td>Black &amp; Brown</td>
</tr>
<tr>
<td>7</td>
<td>Black &amp; Orange</td>
</tr>
<tr>
<td>8</td>
<td>Red &amp; White</td>
</tr>
<tr>
<td>9</td>
<td>Red &amp; Green</td>
</tr>
</tbody>
</table>

**Mechanical Characteristics (Overall)**

<table>
<thead>
<tr>
<th>Operating Temperature Range</th>
<th>-20°C To +80°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Temperature Rating</td>
<td>80°C (UL AWM Style 2919)</td>
</tr>
<tr>
<td>Bulk Cable Weight</td>
<td>101 lbs/1000 ft.</td>
</tr>
</tbody>
</table>
Max. Recommended Pulling Tension: 230 lbs.
Min. Bend Radius/Minor Axis: 4.250 in.

**Applicable Specifications and Agency Compliance (Overall)**

<table>
<thead>
<tr>
<th>Applicable Standards &amp; Environmental Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEC/(UL) Specification: CM</td>
</tr>
<tr>
<td>CEC/(UL) Specification: CM</td>
</tr>
<tr>
<td>AWM Specification: UL Style 2919 (30 V 80°C)</td>
</tr>
<tr>
<td>EU Directive 2011/65/EU (ROHS II): Yes</td>
</tr>
<tr>
<td>EU CE Mark: Yes</td>
</tr>
<tr>
<td>EU Directive 2002/95/EC (RoHS): Yes</td>
</tr>
<tr>
<td>EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004</td>
</tr>
<tr>
<td>EU Directive 2002/96/EC (WEEE): Yes</td>
</tr>
<tr>
<td>CA Prop 65 (CJ for Wire &amp; Cable): Yes</td>
</tr>
<tr>
<td>MIL Order #39 (China RoHS): Yes</td>
</tr>
</tbody>
</table>

**Flame Test**

UL Flame Test: UL1685 UL Loading

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

<table>
<thead>
<tr>
<th>Nom. Characteristic Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance (Ohm)</td>
</tr>
<tr>
<td>50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nom. Inductance:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inductance (µH/ft)</td>
</tr>
<tr>
<td>.018</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nom. Capacitance Conductor to Conductor:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacitance (pF/ft)</td>
</tr>
<tr>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nom. Capacitance Cond. to Other Conductor &amp; Shield:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacitance (pF/ft)</td>
</tr>
<tr>
<td>55</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal Velocity of Propagation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>VP (%)</td>
</tr>
<tr>
<td>66</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nom. Conductor DC Resistance:</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCR @ 20°C (Ohm/1000 ft)</td>
</tr>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Max. Operating Voltage - UL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Description</td>
</tr>
<tr>
<td>30 V RMS UL AWM Style 2919</td>
</tr>
<tr>
<td>300 V RMS CM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Max. Recommended Current:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
</tr>
<tr>
<td>1.4 Amps per conductor @25°C</td>
</tr>
</tbody>
</table>

**Put Ups and Colors:**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Putup</th>
<th>Ship Weight</th>
<th>Color</th>
<th>Notes</th>
<th>Item Desc</th>
</tr>
</thead>
<tbody>
<tr>
<td>8774 060100</td>
<td>100 FT</td>
<td>11,000 LB</td>
<td>CHROME</td>
<td>9 FS PR #22 HDPE PVC</td>
<td></td>
</tr>
<tr>
<td>8774 0601000</td>
<td>1,000 FT</td>
<td>110,000 LB</td>
<td>CHROME</td>
<td>C</td>
<td>9 FS PR #22 HDPE PVC</td>
</tr>
<tr>
<td>8774 060250</td>
<td>250 FT</td>
<td>28,500 LB</td>
<td>CHROME</td>
<td>C</td>
<td>9 FS PR #22 HDPE PVC</td>
</tr>
<tr>
<td>8774 060500</td>
<td>500 FT</td>
<td>55,500 LB</td>
<td>CHROME</td>
<td>C</td>
<td>9 FS PR #22 HDPE PVC</td>
</tr>
</tbody>
</table>

Notes:

C = CRATE REEL PUT-UP.
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

8774 Multi-Conductor - CM Rated Cable

Revision Number: 3  Revision Date: 09-17-2012

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