**Product:** 28082A

TC VN/PVC, 4 C #14 Str BC, PVC-NYL Ins E2, Blk PVC Jkt, 600V TC-ER
150V NPLF 90C Dry/Wet SUN RES DIR BUR

**Product Description**
UL Type TC (1277) PVC-Nylon/PVC, 4 Conductor 14AWG (7x22) Bare Copper, PVC-NYL Insulation E2 Color Code, Black PVC Outer Jacket, 600V TC-ER
150V NPLF 90C Dry/Wet SUN RES DIR BUR

**Technical Specifications**

**Physical Characteristics (Overall)**

<table>
<thead>
<tr>
<th>Conductor</th>
<th>AWG</th>
<th>Stranding</th>
<th>Material</th>
<th>No. of Conductors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>7x22</td>
<td>BC - Bare Copper</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Conductor Count:** 4

**Insulation**

<table>
<thead>
<tr>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC/Nylon - Polyvinyl Chloride/Nylon</td>
</tr>
</tbody>
</table>

**Color Chart**

<table>
<thead>
<tr>
<th>Number</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black</td>
</tr>
<tr>
<td>2</td>
<td>Red</td>
</tr>
<tr>
<td>3</td>
<td>Blue</td>
</tr>
<tr>
<td>4</td>
<td>Orange</td>
</tr>
</tbody>
</table>

**Outer Shield Material**

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

**Outer Jacket Material**

<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Diameter</th>
<th>Nominal Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC - Polyvinyl Chloride</td>
<td>0.374 in</td>
<td>0.047 in</td>
</tr>
</tbody>
</table>

**Electrical Characteristics**

**Conductor DCR**

<table>
<thead>
<tr>
<th>Nominal Conductor DCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.52 Ohm/1000ft</td>
</tr>
</tbody>
</table>

**Current**

Max. Recommended Current [A]

| 20 Amps per conductor @ 30°C |

**Voltage**

<table>
<thead>
<tr>
<th>UL Description</th>
<th>UL Voltage Rating</th>
<th>Voltage Rating (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-ER</td>
<td>600 V RMS (Type TC)</td>
<td>600 V RMS (Type TC)</td>
</tr>
<tr>
<td>NPLF</td>
<td>150 V RMS (Type NPLF)</td>
<td></td>
</tr>
</tbody>
</table>
**Temperature Range**

<table>
<thead>
<tr>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Temp Rating</td>
<td>90°C Dry, 90°C Wet</td>
</tr>
<tr>
<td>Operating Temp Range</td>
<td>Wet/Dry: -30°C to 90°C</td>
</tr>
<tr>
<td>Wet Temp Range</td>
<td>-30°C To +90 °C</td>
</tr>
<tr>
<td>Dry Temp Range</td>
<td>-30°C To +90 °C</td>
</tr>
</tbody>
</table>

**Mechanical Characteristics**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk Cable Weight</td>
<td>99 lbs/1000ft</td>
</tr>
<tr>
<td>Max Recommended Pulling Tension</td>
<td>129 lbs</td>
</tr>
<tr>
<td>Min Bend Radius/Minor Axis</td>
<td>1.50 in</td>
</tr>
</tbody>
</table>

**Standards**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEC/(UL) Specification</td>
<td>NPLF, TC-ER, THWN-2 Singles</td>
</tr>
<tr>
<td>Other Standards</td>
<td>ICEA S-73-532, S-5-658, S-61-402</td>
</tr>
</tbody>
</table>

**Applicable Environmental and Other Programs**

<table>
<thead>
<tr>
<th>Program</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU Directive 2000/53/EC (ELV)</td>
<td>Yes</td>
</tr>
<tr>
<td>EU Directive 2003/96/EC (BFR)</td>
<td>Yes</td>
</tr>
<tr>
<td>EU Directive 2011/65/EU (ROHS II)</td>
<td>Yes</td>
</tr>
<tr>
<td>EU Directive 2012/19/EU (WEEE)</td>
<td>Yes</td>
</tr>
<tr>
<td>EU CE Mark</td>
<td>Yes</td>
</tr>
<tr>
<td>EU RoHS Compliance Date</td>
<td>2005-04-01</td>
</tr>
<tr>
<td>CA Prop 65 (CJ for Wire &amp; Cable)</td>
<td>Yes</td>
</tr>
<tr>
<td>Mill Order #39 (China RoHS)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Suitability**

<table>
<thead>
<tr>
<th>Suitability</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burial</td>
<td>Yes</td>
</tr>
<tr>
<td>Indoor</td>
<td>Yes</td>
</tr>
<tr>
<td>Outdoor</td>
<td>Yes</td>
</tr>
<tr>
<td>Sunlight Resistance</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Flammability, LS0H, Toxicity Testing**

<table>
<thead>
<tr>
<th>Flammability Test</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Flammability</td>
<td>UL1685 Vertical Tray Flame Test</td>
</tr>
<tr>
<td>CSA Flammability</td>
<td>FT4</td>
</tr>
<tr>
<td>IEEE Flammability</td>
<td>1202</td>
</tr>
<tr>
<td>UL voltage rating</td>
<td>600 V RMS (Type TC)</td>
</tr>
</tbody>
</table>

**Plenum/Non-Plenum**

<table>
<thead>
<tr>
<th>Plenum/Y/N</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plenum</td>
<td>No</td>
</tr>
</tbody>
</table>

**Part Number**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
<th>UPC</th>
<th>Length</th>
<th>Footnote</th>
</tr>
</thead>
<tbody>
<tr>
<td>28082A 01010000</td>
<td>Black</td>
<td>612825135050</td>
<td>10,000 ft</td>
<td>CZ</td>
</tr>
<tr>
<td>28082A 01050000</td>
<td>Black</td>
<td>612825135067</td>
<td>5,000 ft</td>
<td>CZ</td>
</tr>
</tbody>
</table>

Footnote: C - CRATE REEL PUT-UP. Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

**History**

<table>
<thead>
<tr>
<th>Update and Revision</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Number</td>
<td>0.312</td>
</tr>
<tr>
<td>Revision Date</td>
<td>12-19-2019</td>
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