Product: 8056
Magnet Wire, #32 Sol BC, PUR/NYL Ins

Product Description
Magnet Wire, 32AWG (Solid) Bare Copper, PUR/NYL Insulation, J-W-1177/9 MW 28-C

Technical Specifications

Product Overview
Suitable Applications: solderable magnet wire

Physical Characteristics (Overall)

<table>
<thead>
<tr>
<th>Conductor</th>
<th>AWG Stranding</th>
<th>Material</th>
<th>Nominal Diameter</th>
<th>No. of Conductors</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>Solid BC - Bare Copper</td>
<td>0.008 in</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Conductor Count: 1

<table>
<thead>
<tr>
<th>Insulation</th>
<th>Material</th>
<th>Nominal Diameter</th>
<th>Nominal Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUR/Nylon</td>
<td>Polyurethane + Nylon</td>
<td>0.0091 in</td>
<td>0.001 in</td>
</tr>
</tbody>
</table>

Outer Jacket Material
Max. Diameter 0.0091 mm

Construction and Dimensions
Min Increase in OD: 0.001 in

Electrical Characteristics

<table>
<thead>
<tr>
<th>Conductor DCR</th>
<th>Nominal Conductor DCR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>162 Ohm/1000ft</td>
</tr>
</tbody>
</table>

Current
Max. Recommended Current [A]
Single conductor in free air @ 30°C: 0.091 A

Voltage
Breakdown Voltage 1675 V Minimum (at Room Temperature)

Temperature Range
Non-UL Temp Rating: 130°C

Mechanical Characteristics
Approximate Length: 2515 ft
Turns Per Linear Inch: 114
**Turns Per Square Inch:** 12996
**Bulk Cable Weight:** 0.2 lbs/1000ft
**Min. Bend Radius/Minor Axis:** 0.01 in

### Standards
- **Military Compliance:** J-W-1177/9
- **Other Specification:** NEMA-MW28-C (Single)

### Applicable Environmental and Other Programs
- EU Directive 2003/96/EC (BFR): Yes
- EU Directive 2011/65/EU (RoHS 2): Yes
- EU Directive 2012/19/EU (WEEE): Yes
- EU Directive 2015/863/EU (RoHS 2 amendment): Yes
- EU CE Mark: Yes
- CA Prop 65: Yes
- Mill Order #39 (China RoHS): Yes

### Flammability, LS0H, Toxicity Testing
- **UL voltage rating:** N/A

### Plenum/Non-Plenum
- Plenum (Y/N): No

### Part Number

#### Variants

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
<th>Put-Up Type</th>
<th>Length</th>
<th>UPC</th>
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</thead>
<tbody>
<tr>
<td>8056</td>
<td>None</td>
<td>Reel</td>
<td>1 ft</td>
<td>612825194521</td>
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</tbody>
</table>

### History

**Update and Revision:** Revision Number: 0.373 Revision Date: 08-27-2021

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