Product: **8056**

**Magnet Wire, #32 Sol BC, PUR/ NYL Ins**

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**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)**

**Conductor**

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

**Insulation**

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

**Outer Jacket**

| Max. Diameter | 0.0091 mm |

**Construction and Dimensions**

| Min Increase in OD: | 0.001 in |

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR | 162 Ohm/1000ft |

**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: 0.04 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
MII Order #39 (China RoHS): Yes

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

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

Part Number

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

History
Update and Revision: Revision Number: 0.391 Revision Date: 12-15-2021

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