**Product: 8075**

Magnet Wire, #18 Sol BC, Polyester/Amide-imide Polymer Ins

**Product Description**
Magnet Wire, 18AWG (Solid) Bare Copper, Polyester/Amide-imide Polymer Insulation, CLASS 200 MW 35-C

**Technical Specifications**

**Product Overview**

| Suitable Applications: | class 200 magnet wire |

**Physical Characteristics (Overall)**

**Conductor**

<table>
<thead>
<tr>
<th>AWG</th>
<th>Stranding</th>
<th>Material</th>
<th>No. of Conductors</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Solid</td>
<td>BC - Bare Copper</td>
<td>1</td>
</tr>
</tbody>
</table>

Conductor Count: 1

**Insulation**

<table>
<thead>
<tr>
<th>Material</th>
<th>Nominal Diameter</th>
<th>Nominal Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester</td>
<td>0.0437 in</td>
<td>0.003 in</td>
</tr>
</tbody>
</table>

**Outer Jacket**

Max. Diameter: 0.0437 mm

**Construction and Dimensions**

Min Increase in OD: 0.003 in

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR: 6.4 Ohm/1000ft

**Current**

Max. Recommended Current [A]: Single conductor in free air @ 30°C: 2.3 A

**Voltage**

Breakdown Voltage: 5700 V Minimum (at Room Temperature)

**Temperature Range**

Operating Temp Range: 200°C

**Mechanical Characteristics**

Approximate Length: 199 ft

Turns Per Linear Inch: 23.2
Turns Per Square Inch: 538
Bulk Cable Weight: 5 lbs/1000ft
Min. Bend Radius/Minor Axis: 0.18 in

Standards
Military Compliance: J-W-1177/14
Other Specification: NEMA-MW-35-C (Heavy)

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

<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>8075</td>
<td>None</td>
<td>Reel</td>
<td>1 ft</td>
<td>612825194576</td>
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</tbody>
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History
Update and Revision: Revision Number: 0.373 Revision Date: 12-15-2021

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