



**Product:** [8074](#)

Magnet Wire, #16 Sol BC, Polyester/Amide-imide Polymer Ins

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**Product Description**

Magnet Wire, 16AWG (Solid) Bare Copper, Polyester/Amide-imide Polymer Insulation, CLASS 200 MW 35-C

**Technical Specifications**

**Product Overview**

Suitable Applications:	class 200 magnet wire
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**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Conductors
16	Solid	BC - Bare Copper	1

Conductor Count:	1
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**Insulation**

Material	Nominal Diameter	Nominal Wall Thickness
Polyester	0.0545 in	0.003 in

**Outer Jacket**

Max. Diameter
0.0545 mm

**Construction and Dimensions**

Min Increase in OD:	0.003 in
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**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
4 Ohm/1000ft

**Current**

Max. Recommended Current [A]
Single conductor in free air @ 30°C: 3.7 A

**Voltage**

Breakdown Voltage
6000 V Minimum (at Room Temperature)

**Temperature Range**

Operating Temp Range:	200°C
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**Mechanical Characteristics**

Approximate Length:	126 ft
Turns Per Linear Inch:	18.6

Turns Per Square Inch:	346
Bulk Cable Weight:	8 lbs/1000ft
Min. Bend Radius/Minor Axis:	0.22 in

## Standards

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

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
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 Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

## Flammability, LSOH, Toxicity Testing

UL voltage rating:	N/A
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## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
8074	None	Reel	1 ft	612825194569

## History

Update and Revision:	Revision Number: 0.374 Revision Date: 12-15-2021
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