



**Product:** [8049](#)

Magnet Wire, #18 Sol BC, PUR/NYL Ins, J-W-1177/9 MW 28-C

[Request Sample](#)

**Product Description**

Magnet Wire, 18AWG (Solid) Bare Copper, PUR/NYL Insulation, J-W-1177/9 MW 28-C

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count: 1

**Insulation**

Material	Nominal Diameter	Nominal Wall Thickness
PUR/Nylon - Polyurethane/Nylon Skin	0.0424 in	0.001 in

**Outer Jacket Material**

Max. Diameter
0.0424 mm

**Construction and Dimensions**

Min Increase in OD:	0.001 in
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**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
6.4 Ohm/1000ft

**Current**

Max. Recommended Current [A]
2.3 A

**Voltage**

Breakdown Voltage
2850 volts minimum at room temperature

**Temperature Range**

Non-UL Temp Rating:	130°C
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**Mechanical Characteristics**

Approximate Length:	100 ft
Turns Per Linear Inch:	23.9
Turns Per Square Inch:	571
Bulk Cable Weight:	5 lbs/1000ft

## Standards

UL AWM Style:	N/A
Military Specification:	J-W-1177/9
Other Specification:	NEMA-MW28-C (Single)

## 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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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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## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
8049	None	Reel	1 ft	612825194453

## History

Update and Revision:	Revision Number: 0.286 Revision Date: 04-28-2020
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