BELDEN



Product: 8049

Magnet Wire, #18 Sol BC, PUR/NYL Ins

Request Sample

Product Description

Magnet Wire, 18AWG (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

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	0.0424 in	0.001 in

Outer Jacket

Max. Diameter
0.0424 mm

Construction and Dimensions

Min Increase in OD:	0.001 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
2850 V Minimum (at Room Temperature)

Temperature Range

Non-UL Temp Rating:	130°C

Mechanical Characteristics

Approximate Length:	100 ft
Turns Per Linear Inch:	23.9

Turns Per Square Inch:	571
Bulk Cable Weight:	5 lbs/1000ft
Minimum Minor Axis Bend Radius:	0.17 in

Standards

Military Compliance:	J-W-1177/9

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, LS0H, Toxicity Testing

UL voltage rating:	N/A

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
8049	None	Reel	1 ft	612825194453

History

Update and Revision:	Revision Number: 0.382 Revision Date: 02-03-2025

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