



Product: [8051](#)

Magnet Wire, #22 Sol BC, PUR/NYL Ins

[Request Sample](#)

Product Description

Magnet Wire, 22AWG (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 |
|-----|-----------|------------------|-------------------|
| 22 | Solid | BC - Bare Copper | 1 |

| | |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Material | Nominal Diameter | Nominal Wall Thickness |
|----------------------------------|------------------|------------------------|
| PUR/Nylon - Polyurethane + Nylon | 0.0270 in | 0.001 in |

Outer Jacket

| Max. Diameter |
|---------------|
| 0.027 mm |

Construction and Dimensions

| | |
|---------------------|----------|
| Min Increase in OD: | 0.001 in |
|---------------------|----------|

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 16.2 Ohm/1000ft |

Current

| Max. Recommended Current [A] |
|--|
| Single conductor in free air @ 30°C: 0.9 A |

Voltage

| Breakdown Voltage |
|--------------------------------------|
| 2575 V Minimum (at Room Temperature) |

Temperature Range

| | |
|---------------------|-------|
| Non-UL Temp Rating: | 130°C |
|---------------------|-------|

Mechanical Characteristics

| | |
|------------------------|--------|
| Approximate Length: | 254 ft |
| Turns Per Linear Inch: | 37.5 |

| | |
|------------------------------|--------------|
| Turns Per Square Inch: | 1406 |
| Bulk Cable Weight: | 2 lbs/1000ft |
| Min. Bend Radius/Minor Axis: | 0.11 in |

Standards

| | |
|----------------------|----------------------|
| Military Compliance: | 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 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 |
|--------------------|-----|

Plenum/Non-Plenum

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

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|--------|-------|-------------|--------|--------------|
| 8051 | None | Reel | 1 ft | 612825194477 |

History

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

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