



**Product:** [8058](#)

Magnet Wire, #36 Sol BC, PUR/NYL Ins

[Request Sample](#)

**Product Description**

Magnet Wire, 36AWG (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 |
|-----|-----------|------------------|-------------------|
| 36  | Solid     | BC - Bare Copper | 1                 |

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

**Insulation**

| Material                         | Nominal Diameter | Nominal Wall Thickness |
|----------------------------------|------------------|------------------------|
| PUR/Nylon - Polyurethane + Nylon | 0.0058 in        | 0.0004 in              |

**Outer Jacket**

| Max. Diameter |
|---------------|
| 0.0058 mm     |

**Construction and Dimensions**

|                     |      |
|---------------------|------|
| Min Increase in OD: | 0 in |
|---------------------|------|

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR |
|-----------------------|
| 414.8 Ohm/1000ft      |

**Current**

| Max. Recommended Current [A]                 |
|----------------------------------------------|
| Single conductor in free air @ 30°C: 0.036 A |

**Voltage**

| Breakdown Voltage                    |
|--------------------------------------|
| 1075 V Minimum (at Room Temperature) |

**Temperature Range**

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

**Mechanical Characteristics**

|                        |         |
|------------------------|---------|
| Approximate Length:    | 6400 ft |
| Turns Per Linear Inch: | 180     |

|                              |                  |
|------------------------------|------------------|
| Turns Per Square Inch:       | 32400            |
| Bulk Cable Weight:           | 0.079 lbs/1000ft |
| Min. Bend Radius/Minor Axis: | 0.03 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          |
|--------|-------|-------------|--------|--------------|
| 8058   | None  | Reel        | 1 ft   | 612825194545 |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.379 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

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